



ANALYTICAL SUMMARY REPORT

July 29, 2008

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

Workorder No.: R08050143 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample from RESPEC Inc on 5/13/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08050143-001	DewBurd GW681	05/12/08 12:45	05/13/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

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



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050143-001
 Client Sample ID: DewBurd GW681

Report Date: 07/29/08
 Collection Date: 05/12/08 12:45
 Date Received: 05/13/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	174	mg/L		5		1	A2320 B	05/19/08 09:16/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/19/08 09:16/mb
Bicarbonate as HCO3	212	mg/L		5		1	A2320 B	05/19/08 09:16/mb
Calcium	65.5	mg/L		0.5		2	E200.7	05/23/08 16:01/eli-c
Chloride	15	mg/L		1		1	E300.0	05/13/08 22:19/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	05/13/08 22:19/jmh
Magnesium	25.1	mg/L		0.5		2	E200.7	05/23/08 16:01/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/15/08 13:00/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/13/08 22:19/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/13/08 22:19/jmh
Potassium	9.6	mg/L		0.5		2	E200.7	05/23/08 16:01/eli-c
Silica	4.0	mg/L		0.5		2	E200.7	05/23/08 16:01/eli-c
Sodium	212	mg/L	D	2		2	E200.7	05/23/08 16:01/eli-c
Sulfate	449	mg/L	D	3		50	E300.0	05/13/08 22:02/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1390	umhos/cm		5.0		1	A2510 B	05/16/08 14:54/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	05/19/08 00:00/jmh
pH	7.91	s.u.		0.01		1	A4500-H B	05/16/08 11:40/tb
Sodium Adsorption Ratio (SAR)	5.6	unitless		0.10		1	Calculation	07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	900	mg/L		5		1	A2540 C	05/14/08 08:25/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/23/08 16:01/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	06/04/08 04:31/eli-c
Barium	ND	mg/L		0.1		2	E200.7	05/23/08 16:01/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	05/23/08 16:01/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/04/08 04:31/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	05/23/08 16:01/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/04/08 04:31/eli-c
Iron	ND	mg/L		0.03		2	E200.7	05/23/08 16:01/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/04/08 04:31/eli-c
Manganese	0.10	mg/L		0.01		2	E200.7	05/23/08 16:01/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/04/08 04:31/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	05/23/08 16:01/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	05/23/08 16:01/eli-c
Selenium	ND	mg/L		0.005		1	A3114 B	06/03/08 15:04/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/04/08 04:31/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: R08050143-001
Client Sample ID: DewBurd GW681

Report Date: 07/29/08
Collection Date: 05/12/08 12:45
Date Received: 05/13/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/04/08 04:31/eli-c
Uranium	0.0095	mg/L		0.0003		1	E200.8	06/04/08 04:31/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	05/23/08 16:01/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	05/23/08 16:01/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/03/08 22:53/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/03/08 11:07/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	2220	pCi/L				1	E900.0	07/15/08 06:03/eli-c
Gross Alpha precision (±)	32.1	pCi/L				1	E900.0	07/15/08 06:03/eli-c
Gross Alpha MDC	4.5	pCi/L				1	E900.0	07/15/08 06:03/eli-c
Gross Beta	675	pCi/L				1	E900.0	07/15/08 06:03/eli-c
Gross Beta precision (±)	7.9	pCi/L				1	E900.0	07/15/08 06:03/eli-c
Gross Beta MDC	3.8	pCi/L				1	E900.0	07/15/08 06:03/eli-c
Lead 210	40.5	pCi/L				1	E909.0M	06/27/08 08:45/eli-c
Lead 210 MDC	16.0	pCi/L				1	E909.0M	06/27/08 08:45/eli-c
Lead 210 precision (±)	10.2	pCi/L				1	E909.0M	06/27/08 08:45/eli-c
Polonium 210	1.6	pCi/L			1.0	1	RMO-3008	06/03/08 17:45/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008	06/03/08 17:45/eli-c
Radium 226	407	pCi/L				1	E903.0	05/28/08 13:52/eli-c
Radium 226 precision (±)	3.7	pCi/L				1	E903.0	05/28/08 13:52/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	05/23/08 11:45/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	05/23/08 11:45/eli-c
Gross Gamma	290	pCi/L		20		1	E901.1	05/28/08 05:30/eli-c
Gross Gamma precision (±)	35	pCi/L				1	E901.1	05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	20.8	pCi/L				1	E909.0M	06/29/08 08:15/eli-c
Lead 210 precision (±)	9.4	pCi/L				1	E909.0M	06/29/08 08:15/eli-c
Lead 210 MDC	15.1	pCi/L				1	E909.0M	06/29/08 08:15/eli-c
Polonium 210	2.4	pCi/L			1.0	1	RMO-3008	06/19/08 12:00/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008	06/19/08 12:00/eli-c
Radium 226	1.8	pCi/L				1	E903.0	06/02/08 15:56/eli-c

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U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

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 Project: Edgemont
 Lab ID: R08050143-001
 Client Sample ID: DewBurd GW681

Report Date: 07/29/08
 Collection Date: 05/12/08 12:45
 Date Received: 05/13/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.5	pCi/L					1	E903.0	06/02/08 15:56/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	06/02/08 15:56/eli-c
Thorium 230	0.7	pCi/L		0.2			1	E907.0	05/23/08 10:30/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	05/23/08 10:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	246	pCi/L		100			1	D5072-92	05/19/08 19:17/eli-c
Radon 222 precision (±)	107	pCi/L					1	D5072-92	05/19/08 19:17/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	05/28/08 13:40/eli-c
Arsenic	0.003	mg/L		0.001			1	E200.8	05/28/08 13:40/eli-c
Barium	ND	mg/L		0.1			2	E200.7	05/20/08 22:05/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	05/28/08 13:40/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/23/08 17:14/eli-c
Cadmium	ND	mg/L		0.001			1	E200.8	05/28/08 13:40/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	05/20/08 22:05/eli-c
Copper	ND	mg/L		0.01			2	E200.7	05/20/08 22:05/eli-c
Iron	0.04	mg/L		0.03			2	E200.7	05/20/08 22:05/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/28/08 13:40/eli-c
Manganese	0.10	mg/L		0.01			2	E200.7	05/20/08 22:05/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/02/08 08:05/eli-b
Molybdenum	ND	mg/L		0.01			1	E200.8	05/28/08 13:40/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	05/20/08 22:05/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	05/28/08 13:40/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/28/08 13:40/eli-c
Strontium	1.3	mg/L		0.1			2	E200.7	05/20/08 22:05/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	05/28/08 13:40/eli-c
Uranium	0.0104	mg/L		0.0003			1	E200.8	05/28/08 13:40/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	05/23/08 17:14/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.47	%					1	A1030 E	07/18/08 00:00/jmh
Anions	13.3	meq/L					1	A1030 E	07/18/08 00:00/jmh
Cations	14.8	meq/L					1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	891	mg/L					1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.01						1	A1030 E	07/18/08 00:00/jmh

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B		Batch: 080519A-ALK-SEL-W							
Sample ID: LCS1_080519A Alkalinity, Total as CaCO3	Laboratory Control Sample 948	mg/L	5.0	95	90	110			05/19/08 09:09
Sample ID: MBLK1_080519A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						05/19/08 09:13
Sample ID: R08050158-009AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 168	mg/L	5.0	102	80	120			05/19/08 09:51
Sample ID: R08050158-009AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 168	mg/L	5.0	102	80	120	0.0	10	05/19/08 09:53
Method: A2510 B		Batch: 080516_1_COND-PROBE-W							
Sample ID: LCS_COND-1_080516 Conductivity @ 25 C	Laboratory Control Sample 1440	umhos/cm	5.0	102	90	110			05/16/08 14:52
Sample ID: LCS1-1_080516 Conductivity @ 25 C	Laboratory Control Sample 143	umhos/cm	5.0	95	90	110			05/16/08 14:52
Sample ID: LCS2-1_080516 Conductivity @ 25 C	Laboratory Control Sample 4970	umhos/cm	5.0	99	90	110			05/16/08 14:53
Sample ID: R08050199-001ADUP Conductivity @ 25 C	Sample Duplicate 2560	umhos/cm	5.0				0.8	10	05/16/08 15:02
Method: A2540 C		Batch: 080514A-SLDS-TDS-W							
Sample ID: LCS1_080514A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 210	mg/L	5.0	106	90	110			05/14/08 08:22
Sample ID: MBLK1_080514A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						05/14/08 08:23
Sample ID: R08050158-006AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 400	mg/L	5.0	104	80	120			05/14/08 08:29
Sample ID: R08050158-006AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 400	mg/L	5.0	102	80	120	1.0	10	05/14/08 08:29
Method: A2580 B		Batch: 080519-ORP-ISE-W							
Sample ID: R08050143-001F Oxidation-Reduction Potential	Sample Duplicate 240	mV					2.2	10	05/19/08 00:00

Qualifiers:

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QA/QC Summary Report

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Report Date: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080603A		
Sample ID: MBLK Selenium-IV	Method Blank ND	mg/L	6E-05			Run: SUB-C102059			06/03/08 11:03
Sample ID: 288-81-1 Selenium-IV	Laboratory Control Sample 0.051	mg/L	0.0010	101	90	110			06/03/08 11:05
Sample ID: C08050602-001EMS Selenium-IV	Sample Matrix Spike 0.051	mg/L	0.0010	101	85	115			06/03/08 11:14
Sample ID: C08050602-001EMSD Selenium-IV	Sample Matrix Spike Duplicate 0.051	mg/L	0.0010	103	85	115	1.1	10	06/03/08 11:16
Method: A3114 B							Batch: C_SE3114-080603B		
Sample ID: MBLK Selenium	Method Blank ND	mg/L	6E-05			Run: SUB-C102093			06/03/08 15:00
Sample ID: 288-81-1 Selenium	Laboratory Control Sample 0.051	mg/L	0.0010	101	90	110			06/03/08 15:02
Sample ID: C08050602-001EMS Selenium	Sample Matrix Spike 0.049	mg/L	0.0010	98	85	115			06/03/08 15:06
Sample ID: C08050602-001EMSD Selenium	Sample Matrix Spike Duplicate 0.050	mg/L	0.0010	99	85	115	1.3	10	06/03/08 15:08
Method: A4500-H B							Batch: 080516_1_PH-W		
Sample ID: LCS_pH-1_080516 pH	Laboratory Control Sample 6.93	s.u.	0.010	101	98.55	101.45			05/16/08 11:36

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-05-15_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01				Run: TECHAA2-R_080515A		05/15/08 11:37
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27	mg/L	0.10	108	90	110	Run: TECHAA2-R_080515A		05/15/08 11:38
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	105	90	110	Run: TECHAA2-R_080515A		05/15/08 11:39
Sample ID: R08050116-003BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.46	mg/L	0.10	92	80	120	Run: TECHAA2-R_080515A		05/15/08 12:54
Sample ID: R08050116-003BMDS Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.48	mg/L	0.10	100	80	120	4.7	10	05/15/08 12:55
Method: D5072-92							Batch: C_R101445		
Sample ID: MB-R101445 Radon 222	Method Blank 30	pCi/L					Run: SUB-C101445		05/19/08 19:17
Sample ID: LCS-R101445 Radon 222	Laboratory Control Sample 301	pCi/L	100	89	70	130	Run: SUB-C101445		05/19/08 19:17
Sample ID: C08050602-001GDUP Radon 222	Sample Duplicate 246	pCi/L	100				0.0	30	05/19/08 19:17

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
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Report Date: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18608		
Sample ID: MB-18608	Method Blank			Run: SUB-C101431			05/20/08 21:33		
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	ND	mg/L	0.0003						
Nickel	ND	mg/L	0.005						
Strontium	ND	mg/L	0.0004						
Zinc	0.003	mg/L	0.001						
Sample ID: LCS3-18608	Laboratory Control Sample			Run: SUB-C101431			05/20/08 21:37		
Barium	0.526	mg/L	0.10	105	85	115			
Boron	0.547	mg/L	0.10	103	85	115			
Chromium	0.536	mg/L	0.050	107	85	115			
Copper	0.537	mg/L	0.010	107	85	115			
Iron	2.87	mg/L	0.030	115	85	115			
Manganese	2.71	mg/L	0.010	109	85	115			
Nickel	0.532	mg/L	0.050	106	85	115			
Strontium	0.547	mg/L	0.10	109	85	115			
Zinc	0.553	mg/L	0.010	110	85	115			
Sample ID: R08050143-001D	Sample Matrix Spike			Run: SUB-C101431			05/20/08 22:09		
Barium	0.529	mg/L	0.10	106	70	130			
Boron	0.549	mg/L	0.10	102	70	130			
Chromium	0.523	mg/L	0.050	105	70	130			
Copper	0.519	mg/L	0.010	104	70	130			
Iron	2.89	mg/L	0.030	114	70	130			
Manganese	2.77	mg/L	0.010	107	70	130			
Nickel	0.525	mg/L	0.050	105	70	130			
Strontium	1.78	mg/L	0.10	103	70	130			
Zinc	0.533	mg/L	0.010	105	70	130			
Sample ID: R08050143-001D	Sample Matrix Spike Duplicate			Run: SUB-C101431			05/20/08 22:13		
Barium	0.517	mg/L	0.10	103	70	130	2.3	20	
Boron	0.541	mg/L	0.10	101	70	130	1.5	20	
Chromium	0.519	mg/L	0.050	104	70	130	0.8	20	
Copper	0.516	mg/L	0.010	103	70	130	0.7	20	
Iron	2.86	mg/L	0.030	113	70	130	1.0	20	
Manganese	2.70	mg/L	0.010	104	70	130	2.7	20	
Nickel	0.536	mg/L	0.050	107	70	130	2.1	20	
Strontium	1.76	mg/L	0.10	98	70	130	1.2	20	

Qualifiers:

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Report Date: 07/29/08
Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18608		
Sample ID: R08050143-001D	Sample Matrix Spike Duplicate			Run: SUB-C101431			05/20/08 22:13		
Zinc	0.526	mg/L	0.010	104	70	130	1.2	20	
Sample ID: MB-18608	Method Blank			Run: SUB-C101693			05/23/08 17:06		
Barium	ND	mg/L	0.006						
Boron	0.02	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						
Nickel	ND	mg/L	0.005						
Strontium	ND	mg/L	0.0004						
Zinc	0.004	mg/L	0.001						
Sample ID: LCS3-18608	Laboratory Control Sample			Run: SUB-C101693			05/23/08 17:10		
Barium	0.541	mg/L	0.10	108	85	115			
Boron	0.540	mg/L	0.10	105	85	115			
Chromium	0.534	mg/L	0.050	107	85	115			
Copper	0.543	mg/L	0.010	109	85	115			
Iron	2.84	mg/L	0.030	113	85	115			
Manganese	2.73	mg/L	0.010	109	85	115			
Nickel	0.540	mg/L	0.050	108	85	115			
Strontium	0.541	mg/L	0.10	108	85	115			
Zinc	0.532	mg/L	0.010	106	85	115			
Sample ID: R08050143-001D	Sample Matrix Spike			Run: SUB-C101693			05/23/08 17:18		
Barium	0.553	mg/L	0.10	111	70	130			
Boron	0.618	mg/L	0.10	108	70	130			
Chromium	0.542	mg/L	0.050	108	70	130			
Copper	0.554	mg/L	0.010	111	70	130			
Iron	2.89	mg/L	0.030	114	70	130			
Manganese	2.86	mg/L	0.010	111	70	130			
Nickel	0.556	mg/L	0.050	111	70	130			
Strontium	1.81	mg/L	0.10	102	70	130			
Zinc	0.552	mg/L	0.010	109	70	130			
Sample ID: R08050143-001D	Sample Matrix Spike Duplicate			Run: SUB-C101693			05/23/08 17:22		
Barium	0.547	mg/L	0.10	109	70	130	1.1	20	
Boron	0.612	mg/L	0.10	107	70	130	1.0	20	
Chromium	0.532	mg/L	0.050	106	70	130	1.9	20	
Copper	0.547	mg/L	0.010	109	70	130	1.1	20	
Iron	2.87	mg/L	0.030	113	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: 07/29/08
Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18608
Sample ID: R08050143-001D	Sample Matrix Spike Duplicate					Run: SUB-C101693			05/23/08 17:22
Manganese	2.82	mg/L	0.010	109	70	130	1.5	20	
Nickel	0.544	mg/L	0.050	109	70	130	2.3	20	
Strontium	1.79	mg/L	0.10	98	70	130	1.2	20	
Zinc	0.539	mg/L	0.010	106	70	130	2.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R101693		
Sample ID: MB-080523A	Method Blank			Run: SUB-C101693			05/23/08 15:53		
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	0.04	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	0.03	mg/L	0.003						
Zinc	0.004	mg/L	0.002						
Sample ID: LFB-080523A	Laboratory Fortified Blank			Run: SUB-C101693			05/23/08 15:57		
Silica	0.37	mg/L	0.10	93	85	125			
Aluminum	0.98	mg/L	0.10	98	85	125			
Barium	1.0	mg/L	0.10	101	85	125			
Boron	1.1	mg/L	0.10	103	85	125			
Calcium	52	mg/L	0.50	104	85	125			
Chromium	1.00	mg/L	0.050	100	85	125			
Iron	1.1	mg/L	0.030	106	85	125			
Magnesium	52	mg/L	0.50	103	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	102	85	125			
Potassium	46	mg/L	0.50	92	85	125			
Sodium	49	mg/L	0.77	98	85	125			
Vanadium	1.1	mg/L	0.10	102	85	125			
Zinc	0.99	mg/L	0.010	99	85	125			
Sample ID: R08050143-001C	Sample Matrix Spike			Run: SUB-C101693			05/23/08 16:05		
Aluminum	2.01	mg/L	0.10	99	70	130			
Barium	2.12	mg/L	0.10	104	70	130			
Boron	2.26	mg/L	0.10	105	70	130			
Chromium	2.11	mg/L	0.050	103	70	130			
Iron	2.19	mg/L	0.030	107	70	130			
Manganese	2.24	mg/L	0.010	105	70	130			
Molybdenum	2.03	mg/L	0.10	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: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R101693		
Sample ID: R08050143-001C	Sample Matrix Spike			Run: SUB-C101693			05/23/08 16:05		
Nickel	2.16	mg/L	0.050	106	70	130			
Vanadium	2.23	mg/L	0.10	108	70	130			
Zinc	2.09	mg/L	0.010	102	70	130			
Calcium	176	mg/L	1.0	108	70	130			
Magnesium	137	mg/L	1.0	109	70	130			
Potassium	103	mg/L	1.0	92	70	130			
Silica	4.99	mg/L	0.10	96	70	130			
Sodium	310	mg/L	1.5	96	70	130			
Sample ID: R08050143-001C	Sample Matrix Spike Duplicate			Run: SUB-C101693			05/23/08 16:09		
Aluminum	1.87	mg/L	0.10	92	70	130	7.6	20	
Barium	2.06	mg/L	0.10	101	70	130	2.6	20	
Boron	2.18	mg/L	0.10	102	70	130	3.3	20	
Chromium	2.02	mg/L	0.050	99	70	130	4.4	20	
Iron	2.13	mg/L	0.030	104	70	130	2.8	20	
Manganese	2.16	mg/L	0.010	101	70	130	3.5	20	
Molybdenum	1.97	mg/L	0.10	96	70	130	2.8	20	
Nickel	2.05	mg/L	0.050	101	70	130	4.8	20	
Vanadium	2.18	mg/L	0.10	105	70	130	2.4	20	
Zinc	2.02	mg/L	0.010	98	70	130	3.5	20	
Calcium	169	mg/L	1.0	101	70	130	4.0	20	
Magnesium	131	mg/L	1.0	104	70	130	4.3	20	
Potassium	103	mg/L	1.0	91	70	130	0.4	20	
Silica	4.81	mg/L	0.10	79	70	130	3.6	20	
Sodium	310	mg/L	1.5	97	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: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8							Batch: C_18608			
Sample ID: MB-18608	Method Blank		Run: SUB-C101838			05/28/08 13:27				
Antimony	0.0002	mg/L	0.0002							
Arsenic	0.0006	mg/L	5E-05							
Beryllium	ND	mg/L	0.0001							
Cadmium	ND	mg/L	3E-05							
Lead	ND	mg/L	5E-05							
Molybdenum	ND	mg/L	5E-05							
Selenium	0.0002	mg/L	0.0002							
Silver	4E-05	mg/L	4E-05							
Thallium	4E-05	mg/L	3E-05							
Uranium	ND	mg/L	3E-05							
Sample ID: LCS3-18608	Laboratory Control Sample		Run: SUB-C101838			05/28/08 13:34				
Antimony	0.578	mg/L	0.050	115	85	115				
Arsenic	0.553	mg/L	0.0010	111	85	115				
Beryllium	0.276	mg/L	0.010	111	85	115				
Cadmium	0.268	mg/L	0.010	107	85	115				
Lead	0.553	mg/L	0.050	111	85	115				
Molybdenum	0.553	mg/L	0.10	111	85	115				
Selenium	0.546	mg/L	0.0010	109	85	115				
Silver	0.0527	mg/L	0.010	105	85	115				
Thallium	0.566	mg/L	0.10	113	85	115				
Uranium	0.443	mg/L	0.00030	89	85	115				
Sample ID: R08050143-001D	Sample Matrix Spike		Run: SUB-C101838			05/28/08 13:47				
Antimony	0.571	mg/L	0.050	114	70	130				
Arsenic	0.546	mg/L	0.0010	108	70	130				
Beryllium	0.266	mg/L	0.010	106	70	130				
Cadmium	0.262	mg/L	0.010	105	70	130				
Lead	0.554	mg/L	0.050	111	70	130				
Molybdenum	0.550	mg/L	0.10	110	70	130				
Selenium	0.529	mg/L	0.0010	106	70	130				
Silver	0.0517	mg/L	0.010	103	70	130				
Thallium	0.577	mg/L	0.10	115	70	130				
Uranium	0.471	mg/L	0.00030	92	70	130				
Sample ID: R08050143-001D	Sample Matrix Spike Duplicate		Run: SUB-C101838			05/28/08 13:54				
Antimony	0.569	mg/L	0.050	114	70	130	0.2	20		
Arsenic	0.546	mg/L	0.0010	109	70	130	0.1	20		
Beryllium	0.268	mg/L	0.010	107	70	130	0.7	20		
Cadmium	0.257	mg/L	0.010	103	70	130	1.7	20		
Lead	0.548	mg/L	0.050	109	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: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18608		
Sample ID: R08050143-001D	Sample Matrix Spike Duplicate			Run: SUB-C101838			05/28/08 13:54		
Molybdenum	0.551	mg/L	0.10	110	70	130	0.2	20	
Selenium	0.535	mg/L	0.0010	107	70	130	1.2	20	
Silver	0.0507	mg/L	0.010	101	70	130	1.9	20	
Thallium	0.558	mg/L	0.10	111	70	130	3.3	20	
Uranium	0.460	mg/L	0.00030	90	70	130	2.6	20	
Method: E200.8							Batch: C_18653		
Sample ID: MB-18653	Method Blank			Run: SUB-C102135			06/03/08 22:39		
Uranium	5E-05	mg/L	2E-05						
Sample ID: LCS1-18653	Laboratory Control Sample			Run: SUB-C102135			06/03/08 22:46		
Uranium	0.0230	mg/L	0.00030	109	80	120			
Sample ID: R08050199-001I	Post Digestion Spike			Run: SUB-C102135			06/03/08 23:06		
Uranium	0.0510	mg/L	0.00030	101	70	130			
Sample ID: R08050199-001I	Post Digestion Spike Duplicate			Run: SUB-C102135			06/03/08 23:13		
Uranium	0.0518	mg/L	0.00030	103	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R102135		
Sample ID: LRB	Method Blank			Run: SUB-C102135			06/03/08 13:25		
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	6E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C102135			06/03/08 13:32		
Arsenic	0.0548	mg/L	0.0010	110	85	115			
Cadmium	0.0538	mg/L	0.0010	108	85	115			
Copper	0.0545	mg/L	0.0010	109	85	115			
Lead	0.0529	mg/L	0.0010	106	85	115			
Mercury	0.00522	mg/L	0.0010	104	85	115			
Silver	0.0195	mg/L	0.0010	97	85	115			
Thorium 232	0.0526	mg/L	0.0010	105	85	115			
Uranium	0.0529	mg/L	0.00030	106	85	115			
Sample ID: C08051200-001CMS	Sample Matrix Spike			Run: SUB-C102135			06/03/08 14:34		
Arsenic	0.0557	mg/L	0.0010	107	70	130			
Cadmium	0.0516	mg/L	0.0010	103	70	130			
Copper	0.0534	mg/L	0.0010	102	70	130			
Lead	0.0537	mg/L	0.0010	104	70	130			
Mercury	0.00484	mg/L	0.0010	97	70	130			
Silver	0.0103	mg/L	0.0050	103	70	130			
Uranium	0.0632	mg/L	0.00030	109	70	130			
Sample ID: C08051200-001CMSD	Sample Matrix Spike Duplicate			Run: SUB-C102135			06/03/08 14:41		
Arsenic	0.0563	mg/L	0.0010	108	70	130	1.2	20	
Cadmium	0.0525	mg/L	0.0010	105	70	130	1.7	20	
Copper	0.0551	mg/L	0.0010	105	70	130	3.2	20	
Lead	0.0559	mg/L	0.0010	109	70	130	3.9	20	
Mercury	0.00499	mg/L	0.0010	100	70	130	3.0	20	
Silver	0.0102	mg/L	0.0050	102	70	130	0.5	20	
Uranium	0.0640	mg/L	0.00030	111	70	130	1.3	20	
Sample ID: R08050143-001C	Post Digestion Spike			Run: SUB-C102135			06/04/08 04:38		
Arsenic	0.0547	mg/L	0.0010	105	70	130			
Cadmium	0.0493	mg/L	0.010	99	70	130			
Copper	0.0516	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: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R102135		
Sample ID: R08050143-001C	Post Digestion Spike			Run: SUB-C102135			06/04/08 04:38		
Lead	0.0527	mg/L	0.050	105	70	130			
Mercury	0.00513	mg/L	0.0010	103	70	130			
Silver	0.0107	mg/L	0.010	53	70	130			S
Thorium 232	0.0533	mg/L	0.0010	107	70	130			
Uranium	0.0633	mg/L	0.00030	107	70	130			
Sample ID: R08050143-001C	Post Digestion Spike Duplicate			Run: SUB-C102135			06/04/08 04:45		
Arsenic	0.0527	mg/L	0.0010	101	70	130	3.7	20	
Cadmium	0.0498	mg/L	0.010	100	70	130	1.0	20	
Copper	0.0502	mg/L	0.010	98	70	130	2.6	20	
Lead	0.0527	mg/L	0.050	105	70	130	0.1	20	
Mercury	0.00522	mg/L	0.0010	104	70	130	1.7	20	
Silver	0.0130	mg/L	0.010	65	70	130	20	20	SR
Thorium 232	0.0540	mg/L	0.0010	108	70	130	1.4	20	
Uranium	0.0632	mg/L	0.00030	107	70	130	0.2	20	
Method: E245.1							Batch: C_B_32731		
Sample ID: MB-32731	Method Blank			Run: SUB-C102024			06/02/08 07:27		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-32731	Laboratory Fortified Blank			Run: SUB-C102024			06/02/08 07:30		
Mercury	0.0021	mg/L	0.0010	105	85	115			
Sample ID: B08051951-002AMS	Sample Matrix Spike			Run: SUB-C102024			06/02/08 08:23		
Mercury	0.0021	mg/L	0.0010	103	70	130			
Sample ID: B08051951-002AMSD	Sample Matrix Spike Duplicate			Run: SUB-C102024			06/02/08 08:28		
Mercury	0.0018	mg/L	0.0010	92	70	130	12	30	
Method: E245.1							Analytical Run: SUB-C102024		
Sample ID: QCS	Initial Calibration Verification Standard						06/02/08 07:06		
Mercury	0.0021	mg/L	0.0010	103	90	110			

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: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R34773		
Sample ID: LFB0805130630-3	Laboratory Fortified Blank			Run: DIONEX_080513A			05/13/08 19:18		
Chloride	4.51	mg/L	0.50	90	90	110			
Fluoride	1.77	mg/L	0.10	89	90	110			S
Nitrogen, Nitrate as N	2.24	mg/L	0.10	90	90	110			
Nitrogen, Nitrite as N	2.31	mg/L	0.10	92	90	110			
Sulfate	13.4	mg/L	1.0	89	90	110			S
Sample ID: LFB0805130630-4	Laboratory Fortified Blank			Run: DIONEX_080513A			05/13/08 20:07		
Chloride	4.59	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			
Nitrogen, Nitrite as N	2.36	mg/L	0.10	94	90	110			
Sulfate	13.6	mg/L	1.0	91	90	110			
Sample ID: R08050135-001BMS	Sample Matrix Spike			Run: DIONEX_080513A			05/13/08 21:13		
Chloride	35.9	mg/L	0.50		80	120			A
Fluoride	2.22	mg/L	0.10	97	80	120			
Nitrogen, Nitrate as N	23.2	mg/L	0.10		80	120			A
Nitrogen, Nitrite as N	2.40	mg/L	0.10	96	80	120			
Sulfate	40.2	mg/L	1.0	76	80	120			S
Sample ID: R08050135-001BMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080513A			05/13/08 21:29		
Chloride	35.8	mg/L	0.50		80	120	0.1	10	A
Fluoride	2.15	mg/L	0.10	93	80	120	3.2	10	
Nitrogen, Nitrate as N	23.3	mg/L	0.10		80	120	0.2	10	A
Nitrogen, Nitrite as N	2.30	mg/L	0.10	92	80	120	4.3	10	
Sulfate	39.8	mg/L	1.0	74	80	120	1.1	10	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: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0476		
Sample ID: MB-GrAB-0476	Method Blank				Run: SUB-C104198			07/11/08 21:29	
Gross Alpha	-1	pCi/L							
Gross Beta	-3	pCi/L							
Sample ID: UNAT-GrAB-0476	Laboratory Control Sample				Run: SUB-C104198			07/11/08 21:29	
Gross Alpha	150	pCi/L	112	70	130				
Sample ID: Cs137-GrAB-0476	Laboratory Control Sample				Run: SUB-C104198			07/11/08 21:29	
Gross Beta	100	pCi/L	109	70	130				
Sample ID: C08060608-001PMS	Sample Matrix Spike				Run: SUB-C104198			07/11/08 21:29	
Gross Alpha	130	pCi/L	88	70	130				
Sample ID: C08060608-001PMSD	Sample Matrix Spike Duplicate				Run: SUB-C104198			07/11/08 21:29	
Gross Alpha	120	pCi/L	87	70	130	0.6	19.2		
Sample ID: C08060608-001PMS	Sample Matrix Spike				Run: SUB-C104198			07/11/08 21:29	
Gross Beta	100	pCi/L	104	70	130				
Sample ID: C08060608-001PMSD	Sample Matrix Spike Duplicate				Run: SUB-C104198			07/11/08 21:29	
Gross Beta	100	pCi/L	102	70	130	2.1	16.1		
Method: E901.1							Batch: C_R101877		
Sample ID: LCS-R101877	Laboratory Control Sample				Run: SUB-C101877			05/28/08 05:30	
Cesium 137	1140	pCi/L	20	82	70	130			
Sample ID: MB-R101877	Method Blank				Run: SUB-C101877			05/28/08 05:30	
Gross Gamma	ND	pCi/L						U	
Sample ID: C08050919-001HDUP	Sample Duplicate				Run: SUB-C101877			05/28/08 05:30	
Gross Gamma	6600	pCi/L	20				0.1	30	
Sample ID: C08051031-005HDUP	Sample Duplicate				Run: SUB-C101877			05/28/08 05:30	
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: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0 Batch: C_18653									
Sample ID: C08050705-001BMS Radium 226	Sample Matrix Spike 63	pCi/L		81	70	130			06/02/08 21:44
Sample ID: C08050705-001BMSD Radium 226	Sample Matrix Spike Duplicate 62	pCi/L		79	70	130	2.2	25.2	06/02/08 21:44
Sample ID: MB-18653 Radium 226	Method Blank -2	pCi/L							06/02/08 21:44 U
Sample ID: LCS-18653 Radium 226	Laboratory Control Sample 13	pCi/L		92	70	130			06/02/08 21:44
Method: E903.0 Batch: C_RA226-2817									
Sample ID: C08050599-001AMS Radium 226	Sample Matrix Spike 8.1	pCi/L		71	70	130			05/28/08 13:50
Sample ID: C08050599-001AMSD Radium 226	Sample Matrix Spike Duplicate 6.9	pCi/L		60	70	130	16	46	05/28/08 13:50 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: MB-RA226-2817 Radium 226	Method Blank -0.1	pCi/L							05/28/08 16:36 U
Sample ID: LCS-RA226-2817 Radium 226	Laboratory Control Sample 8.5	pCi/L		109	70	130			05/28/08 16:36
Method: E907.0 Batch: C_18653									
Sample ID: C08050701-004AMS Thorium 230	Sample Matrix Spike 82.5	pCi/Filter	0.20	88	70	130			05/23/08 10:30
Sample ID: C08050701-004AMSD Thorium 230	Sample Matrix Spike Duplicate 89.3	pCi/Filter	0.20	96	70	130	8.0	30	05/23/08 10:30
Sample ID: LCS-R101872 Thorium 230	Laboratory Control Sample 55.2	pCi/Filter	0.20	115	70	130			05/23/08 10:30
Sample ID: MB-R101872 Thorium 230	Method Blank 0.7	pCi/Filter							05/23/08 10:30

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: 07/29/08
Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R102219		
Sample ID: LCS-R102219	Laboratory Control Sample								
Thorium 230	6.70	pCi/L	0.20	96	70	130			05/23/08 11:45
Sample ID: R08050143-001H	Sample Matrix Spike								
Thorium 230	10.3	pCi/L	0.20	105	70	130			05/23/08 11:45
Sample ID: R08050143-001H	Sample Matrix Spike Duplicate								
Thorium 230	9.40	pCi/L	0.20	98	70	130	9.1	30	05/23/08 11:45
Sample ID: MB-R102219	Method Blank								
Thorium 230	ND	pCi/L							05/23/08 11:45 U
Method: E909.0M							Batch: C_18653		
Sample ID: R08050199-0011	Sample Matrix Spike								
Lead 210	1200	pCi/L		96	70	130			06/29/08 08:15
Sample ID: R08050199-0011	Sample Matrix Spike Duplicate								
Lead 210	2400	pCi/L		102	70	130	71	30	06/29/08 08:15 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-R102938	Method Blank								
Lead 210	ND	pCi/L							06/29/08 08:15 U
Sample ID: LCS-R102938	Laboratory Control Sample								
Lead 210	520	pCi/L		88	70	130			06/29/08 08:15
Method: E909.0M							Batch: C_R104386		
Sample ID: C08050730-004FMS	Sample Matrix Spike								
Lead 210	1000	pCi/L		172	70	130			06/27/08 08:45 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: C08050730-004FMSD	Sample Matrix Spike Duplicate								
Lead 210	670	pCi/L		115	70	130	40	30	06/27/08 08:45 R
Sample ID: MB-R104386	Method Blank								
Lead 210	-2	pCi/L							06/27/08 08:45 U
Sample ID: LCS-R104386	Laboratory Control Sample								
Lead 210	110	pCi/L		98	70	130			06/27/08 08:45

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.

S - Spike recovery outside of advisory limits.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R102444		
Sample ID: C08050737-001HMS Polonium 210	Sample Matrix Spike 51	pCi/L	1.0	112	70	130			06/03/08 17:45
									Run: SUB-C102444
Sample ID: C08050737-001HMSD Polonium 210	Sample Matrix Spike Duplicate 48	pCi/L	1.0	107	70	130	5.0	30	06/03/08 17:45
									Run: SUB-C102444
Sample ID: LCS-R102444 Polonium 210	Laboratory Control Sample 58	pCi/L	1.0	133	70	130			06/03/08 17:45 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-R102444 Polonium 210	Method Blank -0.1	pCi/L							06/03/08 17:45 U
									Run: SUB-C102444
Method: RMO-3008							Batch: C_R103071		
Sample ID: C08051031-005IMS Polonium 210	Sample Matrix Spike 42	pCi/L	1.0	99	70	130			06/19/08 12:00
									Run: SUB-C103071
Sample ID: C08051031-005IMSD Polonium 210	Sample Matrix Spike Duplicate 52	pCi/L	1.0	124	70	130	21	30	06/19/08 12:00
									Run: SUB-C103071
Sample ID: LCS-R103071 Polonium 210	Laboratory Control Sample 110	pCi/L	1.0	121	70	130			06/19/08 12:00
									Run: SUB-C103071
Sample ID: MB-R103071 Polonium 210	Method Blank 0.5	pCi/L							06/19/08 12:00
									Run: SUB-C103071

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

PLEASE PRINT - Provide as much information as possible.

Company Name: RESREC Report Mail Address:		Project Name, PWS, Permit, Etc.: PowerTech Desev Bushack Contact Name: Cory Foreman Phone/Fax: cforeman@resrec.com		Sample Origin: _____ State: _____ Email: _____	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/> Sampler: (Please Print) Eric Krantz
Invoice Address: _____ Invoice Contact & Phone: _____		Purchase Order: _____ Quote/Bottle Order: _____		Shipped by: _____ Cooler Dtg: _____ Receipt Temp: 6.6 °C On Ice: <input checked="" type="radio"/> Yes <input type="radio"/> No	
Special Report/Formats - ELI must be notified prior to sample submittal for the following:					
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers: _____ Sample Type: A W S V B O <input type="checkbox"/> Air Water Soils/Solids <input type="checkbox"/> Vegetation Bioassay Other	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) Dew Burd GWCS1		Collection Date: 5/14/08	Collection Time: 12:45	MATRIX: W	
ANALYSIS REQUESTED					
SEE ATTACHED					
Normal Turnaround (TAT)					
R U S H					
Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page					
Comments: set 6					
Laboratory Use Only:					
Custody Seal: Y N Intact: Y N Signature: _____ Match: Y N		908060143-001			
Refinanced by (print): _____ Date/Time: _____		Date/Time: _____		Signature: _____	
Requested by (print): _____ Date/Time: _____		Date/Time: _____		Signature: _____	
Sample Disposal: _____ Return to Client: _____		Lab Disposal: _____		Signature: _____	

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



ANALYTICAL SUMMARY REPORT

July 29, 2008

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

Workorder No.: R08050199 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample from RESPEC Inc on 5/14/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08050199-001	DewBurd GW680	05/13/08 16:06	05/14/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

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



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050199-001
 Client Sample ID: DewBurd GW680

Report Date: 07/29/08
 Collection Date: 05/13/08 16:06
 Date Received: 05/14/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	262	mg/L		5		1	A2320 B	05/19/08 11:19/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/19/08 11:19/mb
Bicarbonate as HCO3	319	mg/L		5		1	A2320 B	05/19/08 11:19/mb
Calcium	421	mg/L		0.5		2	E200.7	05/29/08 15:05/eli-c
Chloride	12	mg/L		1		1	E300.0	05/16/08 20:58/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	05/16/08 20:58/jmh
Magnesium	129	mg/L		0.5		2	E200.7	05/29/08 15:05/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/15/08 15:11/jmh
Nitrogen, Nitrate as N	0.1	mg/L		0.1		1	E300.0	05/16/08 20:58/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/16/08 20:58/jmh
Potassium	19.5	mg/L		0.5		2	E200.7	05/29/08 15:05/eli-c
Silica	3.8	mg/L		0.5		2	E200.7	05/29/08 15:05/eli-c
Sodium	126	mg/L	D	2		2	E200.7	05/29/08 15:05/eli-c
Sulfate	1200	mg/L	D	3		50	E300.0	05/16/08 20:09/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2580	umhos/cm		5.0		1	A2510 B	05/16/08 14:57/tb
Oxidation-Reduction Potential	270	mV				1	A2580 B	05/19/08 00:00/jmh
pH	7.14	s.u.		0.01		1	A4500-H B	05/16/08 12:14/tb
Sodium Adsorption Ratio (SAR)	1.4	unitless		0.10		1	Calculation	07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	05/20/08 09:49/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/29/08 15:05/eli-c
Arsenic	0.004	mg/L		0.001		1	E200.8	06/02/08 20:42/eli-c
Barium	ND	mg/L		0.1		2	E200.7	05/29/08 15:05/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	05/29/08 15:05/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/02/08 20:42/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	05/29/08 15:05/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/02/08 20:42/eli-c
Iron	0.19	mg/L		0.03		2	E200.7	05/29/08 15:05/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/02/08 20:42/eli-c
Manganese	0.47	mg/L		0.01		2	E200.7	05/29/08 15:05/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/02/08 20:42/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	05/29/08 15:05/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	05/29/08 15:05/eli-c
Selenium	ND	mg/L		0.005		1	A3114 B	05/30/08 17:23/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/02/08 20:42/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050199-001
 Client Sample ID: DewBurd GW680

Report Date: 07/29/08
 Collection Date: 05/13/08 16:06
 Date Received: 05/14/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/02/08 20:42/eli-c
Uranium	0.0213	mg/L		0.0003		1	E200.8	06/02/08 20:42/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	05/29/08 15:05/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	05/29/08 15:05/eli-c
METALS - SUSPENDED								
Uranium	0.0004	mg/L		0.0003		1	E200.8	06/03/08 22:59/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	05/30/08 13:57/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	05/30/08 18:20/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	6500	pCi/L				1	E900.0	07/15/08 06:03/eli-c
Gross Alpha precision (±)	83.7	pCi/L				1	E900.0	07/15/08 06:03/eli-c
Gross Alpha MDC	10.6	pCi/L				1	E900.0	07/15/08 06:03/eli-c
Gross Beta	2250	pCi/L				1	E900.0	07/15/08 06:03/eli-c
Gross Beta precision (±)	23.3	pCi/L				1	E900.0	07/15/08 06:03/eli-c
Gross Beta MDC	10.1	pCi/L				1	E900.0	07/15/08 06:03/eli-c
Lead 210	37.7	pCi/L				1	E909.0M	06/27/08 08:45/eli-c
Lead 210 MDC	16.0	pCi/L				1	E909.0M	06/27/08 08:45/eli-c
Lead 210 precision (±)	10.2	pCi/L				1	E909.0M	06/27/08 08:45/eli-c
Polonium 210	2.0	pCi/L		1.0		1	RMO-3008	06/03/08 17:45/eli-c
Polonium 210 precision (±)	1.5	pCi/L				1	RMO-3008	06/03/08 17:45/eli-c
Radium 226	1430	pCi/L				1	E903.0	05/29/08 14:22/eli-c
Radium 226 precision (±)	6.6	pCi/L				1	E903.0	05/29/08 14:22/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	06/02/08 15:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/02/08 15:00/eli-c
Gross Gamma	940	pCi/L		20		1	E901.1	05/28/08 05:30/eli-c
Gross Gamma precision (±)	58	pCi/L				1	E901.1	05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	20.3	pCi/L	U			1	E909.0M	06/29/08 08:15/eli-c
Lead 210 precision (±)	36.4	pCi/L				1	E909.0M	06/29/08 08:15/eli-c
Lead 210 MDC	60.5	pCi/L				1	E909.0M	06/29/08 08:15/eli-c
Polonium 210	9.1	pCi/L		1.0		1	RMO-3008	06/19/08 12:00/eli-c
Polonium 210 precision (±)	4.9	pCi/L				1	RMO-3008	06/19/08 12:00/eli-c
Radium 226	13.2	pCi/L				1	E903.0	06/02/08 21:44/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050199-001
 Client Sample ID: DewBurd GW680

Report Date: 07/29/08
 Collection Date: 05/13/08 16:06
 Date Received: 05/14/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	2.3	pCi/L					1	E903.0	06/02/08 21:44/eli-c
Radium 226 MDC	1.7	pCi/L					1	E903.0	06/02/08 21:44/eli-c
Thorium 230	0.4	pCi/L		0.2			1	E907.0	05/23/08 10:30/eli-c
Thorium 230 precision (±)	0.9	pCi/L					1	E907.0	05/23/08 10:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	151000	pCi/L		100			1	D5072-92	05/19/08 19:17/eli-c
Radon 222 precision (±)	699	pCi/L					1	D5072-92	05/19/08 19:17/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/07/08 05:46/eli-c
Arsenic	0.005	mg/L		0.001			1	E200.8	05/29/08 02:58/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/29/08 02:58/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/07/08 05:46/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	05/29/08 18:11/eli-c
Cadmium	ND	mg/L		0.001			1	E200.8	05/29/08 02:58/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	05/29/08 18:11/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/29/08 02:58/eli-c
Iron	0.34	mg/L		0.03			2	E200.7	05/29/08 18:11/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/29/08 02:58/eli-c
Manganese	0.50	mg/L		0.01			2	E200.7	05/29/08 18:11/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/04/08 18:07/eli-b
Molybdenum	ND	mg/L		0.01			1	E200.8	05/29/08 02:58/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/29/08 02:58/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/07/08 05:46/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/07/08 05:46/eli-c
Strontium	8.1	mg/L		0.1			1	E200.8	05/29/08 02:58/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	05/29/08 02:58/eli-c
Uranium	0.0238	mg/L		0.0003			1	E200.8	05/29/08 02:58/eli-c
Zinc	0.02	mg/L		0.01			2	E200.7	05/29/08 18:11/eli-c
DATA QUALITY									
A/C Balance (± 5)	10.2	%					1	A1030 E	07/18/08 00:00/jmh
Anions	30.6	meq/L					1	A1030 E	07/18/08 00:00/jmh
Cations	37.6	meq/L					1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	2080	mg/L					1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.11						1	A1030 E	07/18/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: 07/29/08
Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B		Batch: 080519A-ALK-SEL-W							
Sample ID: LCS1_080519A Alkalinity, Total as CaCO3	Laboratory Control Sample 948	mg/L	5.0	95	90	110			Run: PH_COND1-R_080519A 05/19/08 09:09
Sample ID: MBLK1_080519A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080519A 05/19/08 09:13
Sample ID: R08050190-010AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 184	mg/L	5.0	91	80	120			Run: PH_COND1-R_080519A 05/19/08 11:13
Sample ID: R08050190-010AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 192	mg/L	5.0	98	80	120	4.3	10	Run: PH_COND1-R_080519A 05/19/08 11:15
Method: A2510 B		Batch: 080516_1_COND-PROBE-W							
Sample ID: LCS_COND-1_080516 Conductivity @ 25 C	Laboratory Control Sample 1440	umhos/cm	5.0	102	90	110			Run: PH_COND2-R_080516A 05/16/08 14:52
Sample ID: LCS1-1_080516 Conductivity @ 25 C	Laboratory Control Sample 143	umhos/cm	5.0	95	90	110			Run: PH_COND2-R_080516A 05/16/08 14:52
Sample ID: LCS2-1_080516 Conductivity @ 25 C	Laboratory Control Sample 4970	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080516A 05/16/08 14:53
Sample ID: R08050199-001ADUP Conductivity @ 25 C	Sample Duplicate 2560	umhos/cm	5.0				0.8	10	Run: PH_COND2-R_080516A 05/16/08 15:02
Method: A2540 C		Batch: 080520A-SLDS-TDS-W							
Sample ID: LCS1_080520A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 210	mg/L	5.0	103	90	110			Run: BAL-4-R_080520A 05/20/08 09:30
Sample ID: MBLK1_080520A Solids, Total Dissolved TDS @ 180 C	Method Blank 4	mg/L	3						Run: BAL-4-R_080520A 05/20/08 09:32
Sample ID: R08040168-001ADUP Solids, Total Dissolved TDS @ 180 C	Sample Duplicate 440	mg/L	5.0				1.8	20	Run: BAL-4-R_080520A 05/20/08 09:33
Sample ID: R08050215-003AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 470	mg/L	5.0	107	80	120			Run: BAL-4-R_080520A 05/20/08 09:54
Sample ID: R08050215-003AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 470	mg/L	5.0	108	80	120	0.4	10	Run: BAL-4-R_080520A 05/20/08 09:55

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: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080519-ORP-ISE-W		
Sample ID: R08050143-001F	Sample Duplicate					Run: PH_COND1-R_080519B		05/19/08 00:00	
Oxidation-Reduction Potential	240	mV					2.2	10	
Method: A3114 B							Batch: C_SE3114-080530B		
Sample ID: MBLK	Method Blank					Run: SUB-C101945		05/30/08 13:53	
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-81-1	Laboratory Control Sample					Run: SUB-C101945		05/30/08 13:55	
Selenium-IV	0.053	mg/L	0.0010	105	90	110			
Sample ID: R08050199-001E	Sample Matrix Spike					Run: SUB-C101945		05/30/08 13:59	
Selenium-IV	0.053	mg/L	0.0010	106	85	115			
Sample ID: R08050199-001E	Sample Matrix Spike Duplicate					Run: SUB-C101945		05/30/08 14:01	
Selenium-IV	0.054	mg/L	0.0010	107	85	115	1.0	10	
Method: A3114 B							Batch: C_SE3114-080530C		
Sample ID: MBLK	Method Blank					Run: SUB-C101946		05/30/08 17:18	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-81-1	Laboratory Control Sample					Run: SUB-C101946		05/30/08 17:20	
Selenium	0.054	mg/L	0.0010	108	90	110			
Sample ID: R08050199-001E	Sample Matrix Spike					Run: SUB-C101946		05/30/08 17:36	
Selenium	0.056	mg/L	0.0010	112	85	115			
Sample ID: R08050199-001E	Sample Matrix Spike Duplicate					Run: SUB-C101946		05/30/08 17:38	
Selenium	0.056	mg/L	0.0010	112	85	115	0.0	10	
Method: A4500-H B							Batch: 080516_1_PH-W		
Sample ID: LCS_pH-1_080516	Laboratory Control Sample					Run: PH_COND2-R_080516A		05/16/08 11:36	
pH	6.93	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: 07/29/08
 Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G									Batch: A2008-05-15_2_NH3_01
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						Run: TECHAA2-R_080515A 05/15/08 11:37
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27	mg/L	0.10	108	90	110			Run: TECHAA2-R_080515A 05/15/08 11:38
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	105	90	110			Run: TECHAA2-R_080515A 05/15/08 11:39
Sample ID: R08050196-004CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.24	mg/L	0.10	95	80	120			Run: TECHAA2-R_080515A 05/15/08 15:07
Sample ID: R08050196-004CMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.23	mg/L	0.10	92	80	120	3.9	10	Run: TECHAA2-R_080515A 05/15/08 15:08
Method: D5072-92									Batch: C_R101445
Sample ID: MB-R101445 Radon 222	Method Blank 30	pCi/L							Run: SUB-C101445 05/19/08 19:17
Sample ID: LCS-R101445 Radon 222	Laboratory Control Sample 301	pCi/L	100	89	70	130			Run: SUB-C101445 05/19/08 19:17
Sample ID: C08050787-001BDUP Radon 222	Sample Duplicate 251000	pCi/L	100				6.6	30	Run: SUB-C101445 05/19/08 19:17
Sample ID: C08050602-001GDUP Radon 222	Sample Duplicate 246	pCi/L	100				0.0	30	Run: SUB-C101445 05/19/08 19:17
Method: E200.7									Batch: C_18620
Sample ID: R08050199-001D	Sample Matrix Spike								Run: SUB-C102628 06/12/08 20:50
Boron	0.653	mg/L	0.10	106	70	130			
Chromium	0.534	mg/L	0.050	107	70	130			
Iron	3.04	mg/L	0.030	108	70	130			
Manganese	3.09	mg/L	0.010	104	70	130			
Zinc	0.543	mg/L	0.010	107	70	130			
Sample ID: R08050199-001D	Sample Matrix Spike Duplicate								Run: SUB-C102628 06/12/08 20:54
Boron	0.665	mg/L	0.10	108	70	130	1.8	20	
Chromium	0.529	mg/L	0.050	106	70	130	0.9	20	
Iron	3.01	mg/L	0.030	107	70	130	0.9	20	
Manganese	3.08	mg/L	0.010	104	70	130	0.3	20	
Zinc	0.543	mg/L	0.010	107	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: 07/29/08
 Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.7							Batch: C_R101901			
Sample ID: MB-080529A	Method Blank		Run: SUB-C101901				05/29/08 14:57			
Silica	ND	mg/L	0.02							
Aluminum	ND	mg/L	0.02							
Barium	ND	mg/L	0.006							
Boron	0.03	mg/L	0.008							
Calcium	ND	mg/L	0.1							
Chromium	ND	mg/L	0.002							
Iron	0.007	mg/L	0.005							
Magnesium	ND	mg/L	0.04							
Manganese	ND	mg/L	0.0003							
Molybdenum	0.004	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	0.003	mg/L	0.002							
Sample ID: LFB-080529A	Laboratory Fortified Blank		Run: SUB-C101901				05/29/08 15:01			
Silica	0.37	mg/L	0.10	93	85	125				
Aluminum	0.92	mg/L	0.10	92	85	125				
Barium	1.0	mg/L	0.10	101	85	125				
Boron	1.1	mg/L	0.10	107	85	125				
Calcium	55	mg/L	0.50	110	85	125				
Chromium	1.0	mg/L	0.050	101	85	125				
Iron	1.1	mg/L	0.030	107	85	125				
Magnesium	53	mg/L	0.50	106	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	47	mg/L	0.50	94	85	125				
Sodium	51	mg/L	0.77	101	85	125				
Vanadium	1.1	mg/L	0.10	108	85	125				
Zinc	1.0	mg/L	0.010	-143	85	125			S	
Sample ID: R08050199-001C	Sample Matrix Spike		Run: SUB-C101901				05/29/08 15:09			
Aluminum	1.77	mg/L	0.10	87	70	130				
Barium	2.07	mg/L	0.10	101	70	130				
Boron	2.29	mg/L	0.10	103	70	130				
Chromium	2.06	mg/L	0.050	101	70	130				
Iron	2.37	mg/L	0.030	107	70	130				
Manganese	2.52	mg/L	0.010	100	70	130				
Molybdenum	1.97	mg/L	0.10	96	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: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R101901		
Sample ID: R08050199-001C	Sample Matrix Spike			Run: SUB-C101901			05/29/08 15:09		
Nickel	2.04	mg/L	0.050	100	70	130			
Vanadium	2.24	mg/L	0.10	108	70	130			
Zinc	2.09	mg/L	0.010	102	70	130			
Calcium	507	mg/L	1.0		70	130			A
Magnesium	232	mg/L	1.0	102	70	130			
Potassium	110	mg/L	1.0	89	70	130			
Silica	5.07	mg/L	0.10		70	130			A
Sodium	226	mg/L	1.5	98	70	130			
Sample ID: R08050199-001C	Sample Matrix Spike Duplicate			Run: SUB-C101901			05/29/08 15:16		
Aluminum	1.94	mg/L	0.10	95	70	130	9.2	20	
Barium	2.01	mg/L	0.10	98	70	130	3.1	20	
Boron	2.26	mg/L	0.10	101	70	130	1.4	20	
Chromium	2.01	mg/L	0.050	99	70	130	2.2	20	
Iron	2.32	mg/L	0.030	104	70	130	2.4	20	
Manganese	2.48	mg/L	0.010	98	70	130	1.7	20	
Molybdenum	1.94	mg/L	0.10	94	70	130	1.8	20	
Nickel	2.01	mg/L	0.050	99	70	130	1.3	20	
Vanadium	2.13	mg/L	0.10	103	70	130	5.0	20	
Zinc	2.04	mg/L	0.010	99	70	130	2.6	20	
Calcium	496	mg/L	1.0		70	130	2.3	20	A
Magnesium	231	mg/L	1.0	101	70	130	0.4	20	
Potassium	110	mg/L	1.0	89	70	130	0.6	20	
Silica	5.13	mg/L	0.10		70	130	1.2	20	A
Sodium	226	mg/L	1.5	99	70	130	0.3	20	
Sample ID: C08050806-001BMS2	Sample Matrix Spike			Run: SUB-C101901			05/29/08 16:09		
Aluminum	4.64	mg/L	0.10	91	70	130			
Barium	5.04	mg/L	0.10	98	70	130			
Boron	5.83	mg/L	0.10	101	70	130			
Chromium	5.04	mg/L	0.050	99	70	130			
Iron	5.74	mg/L	0.044	103	70	130			
Manganese	5.09	mg/L	0.010	100	70	130			
Molybdenum	4.81	mg/L	0.10	94	70	130			
Nickel	4.96	mg/L	0.050	97	70	130			
Vanadium	5.51	mg/L	0.10	105	70	130			
Zinc	5.09	mg/L	0.010	99	70	130			
Calcium	483	mg/L	1.0	103	70	130			
Magnesium	307	mg/L	1.0	101	70	130			
Potassium	236	mg/L	1.0	90	70	130			
Silica	7.16	mg/L	0.10	74	70	130			

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R101901		
Sample ID: C08050806-001BMS2	Sample Matrix Spike			Run: SUB-C101901			05/29/08 16:09		
Sodium	691	mg/L	2.7	95	70	130			
Sample ID: C08050806-001BMSD2							05/29/08 16:13		
Sample Matrix Spike Duplicate			Run: SUB-C101901						
Aluminum	4.81	mg/L	0.10	94	70	130	3.7	20	
Barium	4.89	mg/L	0.10	95	70	130	3.1	20	
Boron	5.65	mg/L	0.10	98	70	130	3.1	20	
Chromium	4.87	mg/L	0.050	96	70	130	3.4	20	
Iron	5.61	mg/L	0.044	100	70	130	2.2	20	
Manganese	4.91	mg/L	0.010	96	70	130	3.6	20	
Molybdenum	4.73	mg/L	0.10	93	70	130	1.6	20	
Nickel	4.83	mg/L	0.050	95	70	130	2.6	20	
Vanadium	5.31	mg/L	0.10	101	70	130	3.8	20	
Zinc	4.87	mg/L	0.010	95	70	130	4.5	20	
Calcium	471	mg/L	1.0	98	70	130	2.6	20	
Magnesium	298	mg/L	1.0	98	70	130	2.9	20	
Potassium	237	mg/L	1.0	90	70	130	0.3	20	
Silica	7.21	mg/L	0.10	76	70	130			
Sodium	694	mg/L	2.7	97	70	130	0.5	20	
Method: E200.7_8							Batch: C_18620		
Sample ID: R08050199-001D	Sample Matrix Spike			Run: SUB-C101901			05/29/08 18:15		
Boron	0.663	mg/L	0.0010	105	70	130			
Chromium	0.548	mg/L	0.0010	110	70	130			
Iron	3.16	mg/L	0.0010	113	70	130			
Manganese	3.18	mg/L	0.0010	107	70	130			
Zinc	0.568	mg/L	0.0010	111	70	130			
Sample ID: R08050199-001D	Sample Matrix Spike Duplicate			Run: SUB-C101901			05/29/08 18:19		
Boron	0.687	mg/L	0.0010	110	70	130	3.6	20	
Chromium	0.552	mg/L	0.0010	110	70	130	0.8	20	
Iron	3.20	mg/L	0.0010	114	70	130	1.3	20	
Manganese	3.21	mg/L	0.0010	108	70	130	0.8	20	
Zinc	0.573	mg/L	0.0010	112	70	130	0.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18620		
Sample ID: MB-18620	Method Blank		Run: SUB-C101838			05/29/08 00:50			
Antimony	ND	mg/L	0.0002						
Arsenic	0.0005	mg/L	5E-05						
Barium	0.0001	mg/L	9E-05						
Cadmium	ND	mg/L	3E-05						
Copper	0.0003	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Molybdenum	0.0002	mg/L	5E-05						
Nickel	8E-05	mg/L	6E-05						
Silver	0.0001	mg/L	4E-05						
Strontium	ND	mg/L	8E-05						
Thallium	4E-05	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18620	Laboratory Control Sample		Run: SUB-C101838			05/29/08 01:24			
Arsenic	0.499	mg/L	0.0010	100	85	115			
Barium	0.562	mg/L	0.10	112	85	115			
Cadmium	0.249	mg/L	0.010	100	85	115			
Copper	0.471	mg/L	0.010	94	85	115			
Lead	0.542	mg/L	0.050	108	85	115			
Molybdenum	0.563	mg/L	0.10	113	85	115			
Nickel	0.486	mg/L	0.050	97	85	115			
Silver	0.0470	mg/L	0.010	94	85	115			
Strontium	0.568	mg/L	0.10	114	85	115			
Thallium	0.559	mg/L	0.10	112	85	115			
Uranium	0.461	mg/L	0.00030	92	85	115			
Sample ID: R08050199-001D	Sample Matrix Spike		Run: SUB-C101838			05/29/08 03:05			
Antimony	0.607	mg/L	0.050	121	70	130			
Arsenic	0.521	mg/L	0.0010	103	70	130			
Barium	0.588	mg/L	0.10	115	70	130			
Cadmium	0.240	mg/L	0.010	96	70	130			
Copper	0.467	mg/L	0.010	93	70	130			
Lead	0.548	mg/L	0.050	110	70	130			
Molybdenum	0.581	mg/L	0.10	116	70	130			
Nickel	0.488	mg/L	0.050	96	70	130			
Strontium	8.51	mg/L	0.10		70	130			A
Thallium	0.577	mg/L	0.10	115	70	130			
Uranium	0.495	mg/L	0.00030	94	70	130			
Sample ID: R08050199-001D	Sample Matrix Spike Duplicate		Run: SUB-C101838			05/29/08 03:11			
Antimony	0.597	mg/L	0.050	119	70	130	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18620		
Sample ID: R08050199-001D	Sample Matrix Spike Duplicate			Run: SUB-C101838			05/29/08 03:11		
Arsenic	0.503	mg/L	0.0010	100	70	130	3.4	20	
Barium	0.577	mg/L	0.10	113	70	130	1.8	20	
Cadmium	0.234	mg/L	0.010	94	70	130	2.6	20	
Copper	0.451	mg/L	0.010	90	70	130	3.6	20	
Lead	0.543	mg/L	0.050	109	70	130	0.9	20	
Molybdenum	0.573	mg/L	0.10	114	70	130	1.5	20	
Nickel	0.474	mg/L	0.050	93	70	130	2.9	20	
Strontium	8.38	mg/L	0.10	70	130	130	1.6	20	A
Thallium	0.566	mg/L	0.10	113	70	130	2.0	20	
Uranium	0.493	mg/L	0.00030	94	70	130	0.3	20	
Sample ID: LCS3-18620	Laboratory Control Sample			Run: SUB-C102053			06/02/08 17:33		
Antimony	0.519	mg/L	0.050	104	85	115			
Arsenic	0.552	mg/L	0.0010	110	85	115			
Barium	0.532	mg/L	0.10	106	85	115			
Beryllium	0.266	mg/L	0.010	106	85	115			
Cadmium	0.269	mg/L	0.010	108	85	115			
Copper	0.509	mg/L	0.010	102	85	115			
Lead	0.529	mg/L	0.050	106	85	115			
Molybdenum	0.526	mg/L	0.10	105	85	115			
Nickel	0.508	mg/L	0.050	102	85	115			
Silver	0.0446	mg/L	0.010	89	85	115			
Strontium	0.543	mg/L	0.10	109	85	115			
Thallium	0.528	mg/L	0.10	106	85	115			
Uranium	0.527	mg/L	0.00032	105	85	115			
Sample ID: MB-18620	Method Blank			Run: SUB-C102135			06/03/08 18:30		
Antimony	0.0002	mg/L	0.0002						
Arsenic	0.002	mg/L	5E-05						
Barium	0.0001	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Copper	0.001	mg/L	0.0002						
Lead	1E-05	mg/L							
Molybdenum	ND	mg/L	5E-05						
Nickel	0.0002	mg/L	6E-05						
Silver	5E-05	mg/L	5E-05						
Strontium	ND	mg/L	8E-05						
Thallium	ND	mg/L	4E-05						
Uranium	ND	mg/L	3E-05						

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8							Batch: C_18620			
Sample ID: R08050199-001D	Sample Matrix Spike			Run: SUB-C102135			06/03/08 19:51			
Antimony	0.556	mg/L	0.050	111	70	130				
Arsenic	0.518	mg/L	0.0010	102	70	130				
Barium	0.512	mg/L	0.10	100	70	130				
Beryllium	0.259	mg/L	0.010	103	70	130				
Cadmium	0.256	mg/L	0.010	102	70	130				
Copper	0.505	mg/L	0.010	100	70	130				
Lead	0.532	mg/L	0.050	106	70	130				
Molybdenum	0.535	mg/L	0.10	107	70	130				
Nickel	0.506	mg/L	0.050	101	70	130				
Silver	0.0433	mg/L	0.010	86	70	130				
Strontium	7.90	mg/L	0.10		70	130			A	
Thallium	0.528	mg/L	0.10	106	70	130				
Uranium	0.533	mg/L	0.00032	102	70	130				
Sample ID: R08050199-001D	Sample Matrix Spike Duplicate			Run: SUB-C102135			06/03/08 19:58			
Antimony	0.559	mg/L	0.050	112	70	130	0.5	20		
Arsenic	0.521	mg/L	0.0010	103	70	130	0.7	20		
Barium	0.515	mg/L	0.10	101	70	130	0.6	20		
Beryllium	0.252	mg/L	0.010	101	70	130	2.5	20		
Cadmium	0.253	mg/L	0.010	101	70	130	1.2	20		
Copper	0.506	mg/L	0.010	100	70	130	0.1	20		
Lead	0.524	mg/L	0.050	105	70	130	1.6	20		
Molybdenum	0.534	mg/L	0.10	107	70	130	0.1	20		
Nickel	0.505	mg/L	0.050	100	70	130	0.3	20		
Silver	0.0455	mg/L	0.010	91	70	130	4.9	20		
Strontium	8.02	mg/L	0.10		70	130	1.5	20	A	
Thallium	0.521	mg/L	0.10	104	70	130	1.4	20		
Uranium	0.521	mg/L	0.00032	100	70	130	2.2	20		
Sample ID: R08050199-001D	Sample Matrix Spike			Run: SUB-C102298			06/07/08 05:53			
Antimony	0.537	mg/L	0.050	107	70	130				
Arsenic	0.525	mg/L	0.0010	104	70	130				
Barium	0.534	mg/L	0.10	104	70	130				
Beryllium	0.266	mg/L	0.010	106	70	130				
Cadmium	0.253	mg/L	0.010	101	70	130				
Copper	0.487	mg/L	0.010	97	70	130				
Lead	0.512	mg/L	0.050	102	70	130				
Molybdenum	0.510	mg/L	0.10	102	70	130				
Nickel	0.500	mg/L	0.050	100	70	130				
Selenium	0.499	mg/L	0.0020	100	70	130				
Silver	0.0447	mg/L	0.010	89	70	130				

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18620		
Sample ID: R08050199-001D	Sample Matrix Spike			Run: SUB-C102298			06/07/08 05:53		
Strontium	7.56	mg/L	0.10		70	130			A
Thallium	0.506	mg/L	0.10	101	70	130			
Uranium	0.541	mg/L	0.00032	103	70	130			
Sample ID: R08050199-001D	Sample Matrix Spike Duplicate			Run: SUB-C102298			06/07/08 06:00		
Antimony	0.568	mg/L	0.050	114	70	130	5.6	20	
Arsenic	0.542	mg/L	0.0010	107	70	130	3.3	20	
Barium	0.555	mg/L	0.10	108	70	130	3.8	20	
Beryllium	0.272	mg/L	0.010	109	70	130	2.3	20	
Cadmium	0.263	mg/L	0.010	105	70	130	3.7	20	
Copper	0.505	mg/L	0.010	101	70	130	3.6	20	
Lead	0.533	mg/L	0.050	107	70	130	3.9	20	
Molybdenum	0.535	mg/L	0.10	107	70	130	4.9	20	
Nickel	0.520	mg/L	0.050	104	70	130	3.9	20	
Selenium	0.518	mg/L	0.0020	104	70	130	3.7	20	
Silver	0.0480	mg/L	0.010	96	70	130	7.0	20	
Strontium	7.91	mg/L	0.10		70	130	4.5	20	A
Thallium	0.527	mg/L	0.10	105	70	130	4.1	20	
Uranium	0.566	mg/L	0.00032	108	70	130	4.5	20	
Method: E200.8							Batch: C_18653		
Sample ID: MB-18653	Method Blank			Run: SUB-C102135			06/03/08 22:39		
Uranium	5E-05	mg/L	2E-05						
Sample ID: LCS1-18653	Laboratory Control Sample			Run: SUB-C102135			06/03/08 22:46		
Uranium	0.0230	mg/L	0.00030	109	80	120			
Sample ID: R08050199-001I	Post Digestion Spike			Run: SUB-C102135			06/03/08 23:06		
Uranium	0.0510	mg/L	0.00030	101	70	130			
Sample ID: R08050199-001I	Post Digestion Spike Duplicate			Run: SUB-C102135			06/03/08 23:13		
Uranium	0.0518	mg/L	0.00030	103	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R102053		
Sample ID: LRB	Method Blank			Run: SUB-C102053			06/02/08 13:51		
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-C102053			06/02/08 13:58		
Arsenic	0.0501	mg/L	0.0010	100	85	115			
Cadmium	0.0507	mg/L	0.0010	101	85	115			
Copper	0.0509	mg/L	0.0010	102	85	115			
Lead	0.0508	mg/L	0.0010	102	85	115			
Mercury	0.00477	mg/L	0.0010	95	85	115			
Silver	0.0196	mg/L	0.0010	98	85	115			
Thorium 232	0.0505	mg/L	0.0010	101	85	115			
Uranium	0.0511	mg/L	0.00030	102	85	115			
Sample ID: R08050199-001C	Post Digestion Spike			Run: SUB-C102053			06/02/08 20:48		
Arsenic	0.0554	mg/L	0.0010	103	70	130			
Cadmium	0.0489	mg/L	0.010	98	70	130			
Copper	0.0481	mg/L	0.010	95	70	130			
Lead	0.0517	mg/L	0.050	103	70	130			
Mercury	0.00484	mg/L	0.0010	97	70	130			
Silver	0.0109	mg/L	0.010	55	70	130			S
Thorium 232	0.0539	mg/L	0.0010	108	70	130			
Uranium	0.0748	mg/L	0.00030	107	70	130			
Sample ID: R08050199-001C	Post Digestion Spike Duplicate			Run: SUB-C102053			06/02/08 20:55		
Arsenic	0.0544	mg/L	0.0010	101	70	130	2.0	20	
Cadmium	0.0477	mg/L	0.010	95	70	130	2.3	20	
Copper	0.0499	mg/L	0.010	98	70	130	3.7	20	
Lead	0.0512	mg/L	0.050	102	70	130	1.0	20	
Mercury	0.00486	mg/L	0.0010	97	70	130	0.5	20	
Silver	0.0111	mg/L	0.010	55	70	130	1.1	20	S
Thorium 232	0.0533	mg/L	0.0010	106	70	130	1.2	20	
Uranium	0.0733	mg/L	0.00030	104	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: 07/29/08
 Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: C_B_32786		
Sample ID: MB-32786	Method Blank				Run: SUB-C102258		06/04/08 17:57		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-32786	Laboratory Fortified Blank				Run: SUB-C102258		06/04/08 18:05		
Mercury	0.0019	mg/L	0.0010	91	85	115			
Sample ID: B08052561-001DMS	Sample Matrix Spike				Run: SUB-C102258		06/04/08 18:14		
Mercury	0.0019	mg/L	0.0010	94	70	130			
Sample ID: B08052561-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C102258		06/04/08 18:16		
Mercury	0.0021	mg/L	0.0010	100	70	130	7.0	30	
Method: E245.1							Analytical Run: SUB-C102258		
Sample ID: QCS	Initial Calibration Verification Standard				Run: SUB-C102258		06/04/08 17:50		
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: 07/29/08
Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R34815		
Sample ID: LFB0805165430-3	Laboratory Fortified Blank								05/16/08 19:36
Chloride	4.67	mg/L	0.50	93	90	110			
Fluoride	1.85	mg/L	0.10	93	90	110			
Nitrogen, Nitrate as N	2.38	mg/L	0.10	95	90	110			
Nitrogen, Nitrite as N	2.44	mg/L	0.10	98	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: LFB0805165430-4	Laboratory Fortified Blank								05/16/08 19:52
Chloride	4.58	mg/L	0.50	92	90	110			
Fluoride	1.82	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.30	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.40	mg/L	0.10	96	90	110			
Sulfate	13.7	mg/L	1.0	91	90	110			
Sample ID: R08050199-001AMS	Sample Matrix Spike								05/16/08 20:25
Chloride	249	mg/L	5.4	89	80	120			
Fluoride	94.9	mg/L	0.56	88	80	120			
Nitrogen, Nitrate as N	119	mg/L	1.3	95	80	120			
Nitrogen, Nitrite as N	124	mg/L	2.9	99	80	120			
Sulfate	1880	mg/L	3.4	90	80	120			
Sample ID: R08050199-001AMSD	Sample Matrix Spike Duplicate								05/16/08 20:41
Chloride	242	mg/L	5.4	86	80	120	2.8	10	
Fluoride	92.2	mg/L	0.56	86	80	120	2.9	10	
Nitrogen, Nitrate as N	115	mg/L	1.3	92	80	120	3.2	10	
Nitrogen, Nitrite as N	120	mg/L	2.9	96	80	120	3.2	10	
Sulfate	1860	mg/L	3.4	87	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: 07/29/08
Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0476		
Sample ID: MB-GrAB-0476	Method Blank				Run: SUB-C104198			07/11/08 21:29	
Gross Alpha	-1	pCi/L							
Gross Beta	-3	pCi/L							
Sample ID: UNAT-GrAB-0476	Laboratory Control Sample				Run: SUB-C104198			07/11/08 21:29	
Gross Alpha	150	pCi/L	112	70	130				
Sample ID: Cs137-GrAB-0476	Laboratory Control Sample				Run: SUB-C104198			07/11/08 21:29	
Gross Beta	100	pCi/L	109	70	130				
Sample ID: C08060608-001PMS	Sample Matrix Spike				Run: SUB-C104198			07/11/08 21:29	
Gross Alpha	130	pCi/L	88	70	130				
Sample ID: C08060608-001PMSD	Sample Matrix Spike Duplicate				Run: SUB-C104198			07/11/08 21:29	
Gross Alpha	120	pCi/L	87	70	130	0.6	19.2		
Sample ID: C08060608-001PMS	Sample Matrix Spike				Run: SUB-C104198			07/11/08 21:29	
Gross Beta	100	pCi/L	104	70	130				
Sample ID: C08060608-001PMSD	Sample Matrix Spike Duplicate				Run: SUB-C104198			07/11/08 21:29	
Gross Beta	100	pCi/L	102	70	130	2.1	16.1		
Method: E901.1							Batch: C_R101877		
Sample ID: LCS-R101877	Laboratory Control Sample				Run: SUB-C101877			05/28/08 05:30	
Cesium 137	1140	pCi/L	20	82	70	130			
Sample ID: MB-R101877	Method Blank				Run: SUB-C101877			05/28/08 05:30	
Gross Gamma	ND	pCi/L						U	
Sample ID: C08050919-001HDUP	Sample Duplicate				Run: SUB-C101877			05/28/08 05:30	
Gross Gamma	6600	pCi/L	20				0.1	30	
Sample ID: C08051031-005HDUP	Sample Duplicate				Run: SUB-C101877			05/28/08 05:30	
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: 07/29/08
 Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_18653		
Sample ID: C08050601-001ADUP	Sample Duplicate				Run: SUB-C102132			06/02/08 15:56	
Radium 226	-1.2	pCi/L			70	130	7.7	134.8	U
Sample ID: C08050705-001BMS	Sample Matrix Spike				Run: SUB-C102132			06/02/08 21:44	
Radium 226	63	pCi/L		81	70	130			
Sample ID: C08050705-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C102132			06/02/08 21:44	
Radium 226	62	pCi/L		79	70	130	2.2	25.2	
Sample ID: MB-18653	Method Blank				Run: SUB-C102132			06/02/08 21:44	
Radium 226	-2	pCi/L							U
Sample ID: LCS-18653	Laboratory Control Sample				Run: SUB-C102132			06/02/08 21:44	
Radium 226	13	pCi/L		92	70	130			
Method: E903.0							Batch: C_RA226-2820		
Sample ID: TAP WATER-MS	Sample Matrix Spike				Run: SUB-C101991			05/29/08 15:57	
Radium 226	7.4	pCi/L		91	70	130			
Sample ID: TAP WATER-MSD	Sample Matrix Spike Duplicate				Run: SUB-C101991			05/29/08 15:57	
Radium 226	8.2	pCi/L		101	70	130	9.6	23.1	
Sample ID: MB-RA226-2820	Method Blank				Run: SUB-C101991			05/29/08 15:57	
Radium 226	-0.1	pCi/L							U
Sample ID: LCS-RA226-2820	Laboratory Control Sample				Run: SUB-C101991			05/29/08 15:57	
Radium 226	7.9	pCi/L		102	70	130			
Method: E907.0							Batch: C_18653		
Sample ID: C08050601-001ADUP	Sample Duplicate				Run: SUB-C101872			05/23/08 10:30	
Thorium 230	-0.0950	pCi/L	0.20		70	130	0.0	30	
Sample ID: C08050701-004AMS	Sample Matrix Spike				Run: SUB-C101872			05/23/08 10:30	
Thorium 230	82.5	pCi/Filter	0.20	88	70	130			
Sample ID: C08050701-004AMSD	Sample Matrix Spike Duplicate				Run: SUB-C101872			05/23/08 10:30	
Thorium 230	89.3	pCi/Filter	0.20	96	70	130	8.0	30	
Sample ID: LCS-R101872	Laboratory Control Sample				Run: SUB-C101872			05/23/08 10:30	
Thorium 230	55.2	pCi/Filter	0.20	115	70	130			
Sample ID: MB-R101872	Method Blank				Run: SUB-C101872			05/23/08 10:30	
Thorium 230	0.7	pCi/Filter							

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: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R102465		
Sample ID: LCS-R102465	Laboratory Control Sample				Run: SUB-C102465			06/02/08 15:00	
Thorium 230	7.50	pCi/L	0.20	109	70	130			
Sample ID: R08050199-001H	Sample Matrix Spike				Run: SUB-C102465			06/02/08 15:00	
Thorium 230	16.1	pCi/L	0.20	99	70	130			
Sample ID: R08050199-001H	Sample Matrix Spike Duplicate				Run: SUB-C102465			06/02/08 15:00	
Thorium 230	17.0	pCi/L	0.20	103	70	130	5.4	30	
Sample ID: MB-R102465	Method Blank				Run: SUB-C102465			06/02/08 15:00	
Thorium 230	ND	pCi/L							
Method: E909.0M							Batch: C_18653		
Sample ID: C08050601-001ADUP	Sample Duplicate				Run: SUB-C102938			06/29/08 08:15	
Lead 210	-2.9	pCi/L					6000	30	R
- Activity of both samples is below detection limit, resulting in high RPD. Batch is acceptable.									
Sample ID: R08050199-001I	Sample Matrix Spike				Run: SUB-C102938			06/29/08 08:15	
Lead 210	1200	pCi/L		96	70	130			
Sample ID: R08050199-001I	Sample Matrix Spike Duplicate				Run: SUB-C102938			06/29/08 08:15	
Lead 210	2400	pCi/L		102	70	130	71	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-R102938	Method Blank				Run: SUB-C102938			06/29/08 08:15	
Lead 210	ND	pCi/L							U
Sample ID: LCS-R102938	Laboratory Control Sample				Run: SUB-C102938			06/29/08 08:15	
Lead 210	520	pCi/L		88	70	130			
Method: E909.0M							Batch: C_R104386		
Sample ID: C08050730-004FMS	Sample Matrix Spike				Run: SUB-C104386			06/27/08 08:45	
Lead 210	1000	pCi/L		172	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: C08050730-004FMSD	Sample Matrix Spike Duplicate				Run: SUB-C104386			06/27/08 08:45	
Lead 210	670	pCi/L		115	70	130	40	30	R
Sample ID: MB-R104386	Method Blank				Run: SUB-C104386			06/27/08 08:45	
Lead 210	-2	pCi/L							U
Sample ID: LCS-R104386	Laboratory Control Sample				Run: SUB-C104386			06/27/08 08:45	
Lead 210	110	pCi/L		98	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: 07/29/08
Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R102444		
Sample ID: C08050737-001HMS Polonium 210	Sample Matrix Spike 51	pCi/L	1.0	112	70	130			
									Run: SUB-C102444 06/03/08 17:45
Sample ID: C08050737-001HMSD Polonium 210	Sample Matrix Spike Duplicate 48	pCi/L	1.0	107	70	130	5.0	30	06/03/08 17:45
									Run: SUB-C102444 06/03/08 17:45
Sample ID: LCS-R102444 Polonium 210	Laboratory Control Sample 58	pCi/L	1.0	133	70	130			06/03/08 17:45 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-R102444 Polonium 210	Method Blank -0.1	pCi/L							Run: SUB-C102444 06/03/08 17:45 U
Method: RMO-3008							Batch: C_R103071		
Sample ID: C08051031-005IMS Polonium 210	Sample Matrix Spike 42	pCi/L	1.0	99	70	130			Run: SUB-C103071 06/19/08 12:00
Sample ID: C08051031-005IMSD Polonium 210	Sample Matrix Spike Duplicate 52	pCi/L	1.0	124	70	130	21	30	Run: SUB-C103071 06/19/08 12:00
Sample ID: LCS-R103071 Polonium 210	Laboratory Control Sample 110	pCi/L	1.0	121	70	130			Run: SUB-C103071 06/19/08 12:00
Sample ID: MB-R103071 Polonium 210	Method Blank 0.5	pCi/L							Run: SUB-C103071 06/19/08 12:00

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

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC Project Name: PWS, Permit, Etc. POWER TEST DEWEY BURDOCK Sample Origin: SD EPA/State Compliance: Yes No

Report Mail Address: RESPEC Contact Name: Cory Foreman Phone/Fax: respec.com Email: respec.com Sampler: (Please Print) Earl Karve

Invoice Address: _____ Invoice Contact & Phone: _____ Purchase Order: _____ Quote/Bottle Order: _____

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

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

Number of Containers
Sample Type: AWSVBO
Air Water Soils/Solids
Vegetation Bioassay Other

ANALYSIS REQUESTED

SEE ATTACHED
Normal Turnaround (TAT)

RUSH

Contact EII prior to RUSH sample submittal for changes and scheduling - See Instruction Page

Comments: sf 14

Shipped by: _____
Cooler Req: _____

Receipt Temp: 8.1 °C
On Ice: Yes No

Custody Seal: Y N
Intact: Y N
Signature: Y N
Match: Y N

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED	SEE ATTACHED	Normal Turnaround (TAT)	RUSH	Comments:	Shipped by:	Cooler Req:	Receipt Temp:	On Ice:	Custody Seal:	Intact:	Signature:	Match:
<u>DewBurd GW & PO</u>	<u>5/13/08</u>	<u>16:06</u>	<u>N</u>					<u>sf 14</u>			<u>8.1</u> °C	Yes <input checked="" type="checkbox"/>	Y	Y	Y	Y

LABORATORY USE ONLY

Requested by (print): Earl Karve Date/Time: 5/14/08 0715
Signature: [Signature]

Received by Laboratory: Mark Hollenbeck Date/Time: 5/13/08 0715
Signature: [Signature]

Requested by (print): Mark Hollenbeck Date/Time: 5/13/08 1510
Signature: [Signature]

Received by Laboratory: Linda Carlson Date/Time: 5/13/08 1510
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 service as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

August 14, 2008

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

Workorder No.: R08050229 Quote ID: R286

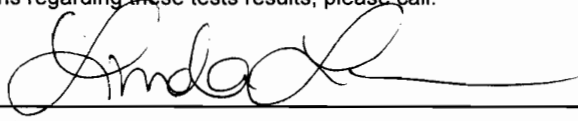
Project Name: Edgemont

Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 5/19/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08050229-001	DewBurd GW681	05/18/08 11:18	05/19/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08050229-002	DewBurd GW679	05/18/08 18:00	05/19/08	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



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050229-001
 Client Sample ID: DewBurd GW681

Report Date: 08/14/08
 Collection Date: 05/18/08 11:18
 Date Received: 05/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	180	mg/L		5		1	A2320 B 05/19/08 14:53/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 05/19/08 14:53/mb
Bicarbonate as HCO3	219	mg/L		5		1	A2320 B 05/19/08 14:53/mb
Calcium	68.4	mg/L		0.5		2	E200.7 06/04/08 18:56/eli-c
Chloride	16	mg/L		1		1	E300.0 05/20/08 14:52/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0 05/20/08 14:52/jmh
Magnesium	25.5	mg/L		0.5		2	E200.7 06/04/08 18:56/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 05/21/08 17:12/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 05/20/08 14:52/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 05/20/08 14:52/jmh
Potassium	9.6	mg/L		0.5		2	E200.7 06/04/08 18:56/eli-c
Silica	4.3	mg/L		0.5		2	E200.7 06/04/08 18:56/eli-c
Sodium	221	mg/L	D	2		2	E200.7 06/04/08 18:56/eli-c
Sulfate	465	mg/L	D	3		50	E300.0 05/20/08 14:02/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1500	umhos/cm		5.0		1	A2510 B 05/23/08 16:01/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B 05/19/08 00:00/jmh
pH	8.15	s.u.		0.01		1	A4500-H B 05/23/08 14:31/kh
Sodium Adsorption Ratio (SAR)	5.8	unitless		0.10		1	Calculation 08/09/08 17:06/ADM
Solids, Total Dissolved TDS @ 180 C	890	mg/L		5		1	A2540 C 05/20/08 10:04/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 06/04/08 18:56/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 06/04/08 15:59/eli-c
Barium	ND	mg/L		0.1		2	E200.7 06/04/08 18:56/eli-c
Boron	ND	mg/L		0.1		2	E200.7 06/04/08 18:56/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 06/04/08 15:59/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 06/04/08 18:56/eli-c
Copper	ND	mg/L		0.01		1	E200.8 06/04/08 15:59/eli-c
Iron	ND	mg/L		0.03		2	E200.7 06/04/08 18:56/eli-c
Lead	ND	mg/L		0.001		1	E200.8 06/04/08 15:59/eli-c
Manganese	0.10	mg/L		0.01		2	E200.7 06/04/08 18:56/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 06/04/08 15:59/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 06/04/08 18:56/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 06/04/08 18:56/eli-c
Selenium	ND	mg/L		0.005		1	A3114 B 06/03/08 15:17/eli-c
Silver	ND	mg/L		0.005		1	E200.8 06/04/08 15:59/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050229-001
 Client Sample ID: DewBurd GW681

Report Date: 08/14/08
 Collection Date: 05/18/08 11:18
 Date Received: 05/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/04/08 15:59/eli-c
Uranium	0.0096	mg/L		0.0003		1	E200.8	06/04/08 15:59/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/04/08 18:56/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/04/08 18:56/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/07/08 21:57/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/03/08 11:24/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1220	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Alpha precision (±)	21.9	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Alpha MDC	3.2	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Beta	304	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Beta precision (±)	5.5	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Beta MDC	3.7	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Lead 210	38.2	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Lead 210 MDC	19.9	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Lead 210 precision (±)	12.7	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Polonium 210	1.2	pCi/L		1.0		1	RMO-3008	06/03/08 17:45/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008	06/03/08 17:45/eli-c
Radium 226	423	pCi/L				1	E903.0	06/08/08 17:06/eli-c
Radium 226 precision (±)	15.1	pCi/L				1	E903.0	06/08/08 17:06/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	06/05/08 15:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/05/08 15:00/eli-c
Gross Gamma	6600	pCi/L		20		1	E901.1	05/28/08 05:30/eli-c
Gross Gamma precision (±)	130	pCi/L				1	E901.1	05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	20.2	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Lead 210 precision (±)	5.6	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Lead 210 MDC	8.8	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Polonium 210	3.2	pCi/L		1.0		1	RMO-3008	06/19/08 12:00/eli-c
Polonium 210 precision (±)	1.3	pCi/L				1	RMO-3008	06/19/08 12:00/eli-c
Radium 226	1.6	pCi/L				1	E903.0	06/03/08 08:59/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050229-001
 Client Sample ID: DewBurd GW681

Report Date: 08/14/08
 Collection Date: 05/18/08 11:18
 Date Received: 05/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.5	pCi/L					1	E903.0	06/03/08 08:59/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	06/03/08 08:59/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	05/29/08 15:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	05/29/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	462000	pCi/L		100			1	D5072-92	05/23/08 07:37/eli-c
Radon 222 precision (±)	1020	pCi/L					1	D5072-92	05/23/08 07:37/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/06/08 17:28/eli-c
Arsenic	0.004	mg/L		0.001			1	E200.8	06/06/08 17:28/eli-c
Barium	ND	mg/L		0.1			2	E200.7	05/27/08 21:31/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/09/08 14:59/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/27/08 21:31/eli-c
Cadmium	ND	mg/L		0.001			1	E200.8	06/06/08 17:28/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	05/27/08 21:31/eli-c
Copper	ND	mg/L		0.01			2	E200.7	05/27/08 21:31/eli-c
Iron	0.05	mg/L		0.03			2	E200.7	05/27/08 21:31/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/06/08 17:28/eli-c
Manganese	0.09	mg/L		0.01			2	E200.7	05/27/08 21:31/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/04/08 19:54/eli-b
Molybdenum	ND	mg/L		0.01			1	E200.8	06/06/08 17:28/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	05/27/08 21:31/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/06/08 17:28/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/06/08 17:28/eli-c
Strontium	1.3	mg/L		0.1			2	E200.7	05/27/08 21:31/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/06/08 17:28/eli-c
Uranium	0.0108	mg/L		0.0003			1	E200.8	06/06/08 17:28/eli-c
Zinc	0.01	mg/L		0.01			2	E200.7	05/27/08 21:31/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.53	%					1	A1030 E	08/09/08 00:00/jmh
Anions	13.8	meq/L					1	A1030 E	08/09/08 00:00/jmh
Cations	15.4	meq/L					1	A1030 E	08/09/08 00:00/jmh
Solids, Total Dissolved Calculated	926	mg/L					1	A1030 E	08/09/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.970						1	A1030 E	08/09/08 00:00/jmh

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 Definitions: 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: R08050229-002
 Client Sample ID: DewBurd GW679

Report Date: 08/14/08
 Collection Date: 05/18/08 18:00
 Date Received: 05/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	158	mg/L		5		1	A2320 B	05/19/08 14:58/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/19/08 14:58/mb
Bicarbonate as HCO3	193	mg/L		5		1	A2320 B	05/19/08 14:58/mb
Calcium	515	mg/L		0.5		2	E200.7	06/04/08 19:00/eli-c
Chloride	11	mg/L		1		1	E300.0	05/20/08 15:24/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	05/20/08 15:24/jmh
Magnesium	109	mg/L		0.5		2	E200.7	06/04/08 19:00/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/21/08 17:14/jmh
Nitrogen, Nitrate as N	1.1	mg/L		0.1		1	E300.0	05/20/08 15:24/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/20/08 15:24/jmh
Potassium	11.1	mg/L		0.5		2	E200.7	06/04/08 19:00/eli-c
Silica	6.0	mg/L		0.5		2	E200.7	06/04/08 19:00/eli-c
Sodium	82	mg/L	D	2		2	E200.7	06/04/08 19:00/eli-c
Sulfate	1440	mg/L	D	3		50	E300.0	05/20/08 15:08/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2880	umhos/cm		5.0		1	A2510 B	05/23/08 16:03/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	05/19/08 00:00/jmh
pH	7.83	s.u.		0.01		1	A4500-H B	05/23/08 14:34/kh
Sodium Adsorption Ratio (SAR)	0.86	unitless		0.10		1	Calculation	08/09/08 17:06/ADM
Solids, Total Dissolved TDS @ 180 C	2500	mg/L		5		1	A2540 C	05/20/08 10:08/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/04/08 19:00/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/04/08 16:27/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/04/08 19:00/eli-c
Boron	0.4	mg/L		0.1		2	E200.7	06/04/08 19:00/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/04/08 16:27/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/04/08 19:00/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/04/08 16:27/eli-c
Iron	ND	mg/L		0.03		2	E200.7	06/04/08 19:00/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/04/08 16:27/eli-c
Manganese	0.04	mg/L		0.01		2	E200.7	06/04/08 19:00/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/04/08 16:27/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/04/08 19:00/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/04/08 19:00/eli-c
Selenium	0.010	mg/L		0.005		1	A3114 B	06/03/08 15:19/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/04/08 16:27/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050229-002
 Client Sample ID: DewBurd GW679

Report Date: 08/14/08
 Collection Date: 05/18/08 18:00
 Date Received: 05/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/04/08 16:27/eli-c
Uranium	0.0112	mg/L		0.0003		1	E200.8	06/04/08 16:27/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/04/08 19:00/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/04/08 19:00/eli-c
METALS - SUSPENDED								
Uranium	0.0012	mg/L		0.0003		1	E200.8	06/07/08 22:02/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/03/08 11:26/eli-c
Selenium-VI	0.010	mg/L		0.001		1	A3114 B	06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	22.4	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Alpha precision (±)	6.3	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Alpha MDC	7.5	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Beta	10.8	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Beta precision (±)	5.3	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Beta MDC	8.6	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Lead 210	4.5	pCi/L	U			1	E909.0M	06/25/08 11:25/eli-c
Lead 210 MDC	17.8	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Lead 210 precision (±)	10.7	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008	06/03/08 17:45/eli-c
Polonium 210 precision (±)	0.10	pCi/L				1	RMO-3008	06/03/08 17:45/eli-c
Radium 226	3.7	pCi/L				1	E903.0	06/08/08 18:37/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	06/08/08 18:37/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/05/08 15:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/05/08 15:00/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/28/08 05:30/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-9.8	pCi/L	U			1	E909.0M	07/03/08 09:50/eli-c
Lead 210 precision (±)	20.8	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Lead 210 MDC	35.2	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Polonium 210	-0.3	pCi/L	U	1.0		1	RMO-3008	06/19/08 12:00/eli-c
Polonium 210 precision (±)	1.7	pCi/L				1	RMO-3008	06/19/08 12:00/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0	06/03/08 08:59/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050229-002
 Client Sample ID: DewBurd GW679

Report Date: 08/14/08
 Collection Date: 05/18/08 18:00
 Date Received: 05/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	1.1	pCi/L				1	E903.0	06/03/08 08:59/eli-c
Radium 226 MDC	1.8	pCi/L				1	E903.0	06/03/08 08:59/eli-c
Thorium 230	1.4	pCi/L		0.2		1	E907.0	05/29/08 15:00/eli-c
Thorium 230 precision (±)	0.9	pCi/L				1	E907.0	05/29/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	1250	pCi/L		100		1	D5072-92	05/23/08 07:37/eli-c
Radon 222 precision (±)	91.2	pCi/L				1	D5072-92	05/23/08 07:37/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	06/06/08 17:35/eli-c
Arsenic	0.011	mg/L		0.001		1	E200.8	06/06/08 17:35/eli-c
Barium	0.3	mg/L		0.1		2	E200.7	05/27/08 21:35/eli-c
Beryllium	0.002	mg/L		0.001		1	E200.8	06/09/08 15:05/eli-c
Boron	0.4	mg/L		0.1		2	E200.7	05/27/08 21:35/eli-c
Cadmium	ND	mg/L		0.001		1	E200.8	06/06/08 17:35/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	05/27/08 21:35/eli-c
Copper	0.03	mg/L		0.01		2	E200.7	05/27/08 21:35/eli-c
Iron	26.4	mg/L		0.03		2	E200.7	05/27/08 21:35/eli-c
Lead	0.022	mg/L		0.001		1	E200.8	06/06/08 17:35/eli-c
Manganese	0.57	mg/L		0.01		2	E200.7	05/27/08 21:35/eli-c
Mercury	ND	mg/L		0.0001		1	E245.1	06/04/08 19:57/eli-b
Molybdenum	0.02	mg/L		0.01		1	E200.8	06/06/08 17:35/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	05/27/08 21:35/eli-c
Selenium	0.013	mg/L		0.001		1	E200.8	06/06/08 17:35/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 17:35/eli-c
Strontium	7.8	mg/L		0.1		2	E200.7	05/27/08 21:35/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	06/06/08 17:35/eli-c
Uranium	0.0164	mg/L		0.0003		1	E200.8	06/06/08 17:35/eli-c
Zinc	0.09	mg/L		0.01		2	E200.7	05/27/08 21:35/eli-c
DATA QUALITY								
A/C Balance (± 5)	6.81	%				1	A1030 E	08/09/08 00:00/jmh
Anions	33.6	meq/L				1	A1030 E	08/09/08 00:00/jmh
Cations	38.5	meq/L				1	A1030 E	08/09/08 00:00/jmh
Solids, Total Dissolved Calculated	2290	mg/L				1	A1030 E	08/09/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.09					1	A1030 E	08/09/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: 08/14/08
Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B		Batch: 080519A-ALK-SEL-W							
Sample ID: LCS1_080519A Alkalinity, Total as CaCO3	Laboratory Control Sample 948	mg/L	5.0	95	90	110			Run: PH_COND1-R_080519A 05/19/08 09:09
Sample ID: MBLK1_080519A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080519A 05/19/08 09:13
Sample ID: R08050229-002AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 270	mg/L	5.0	106	80	120			Run: PH_COND1-R_080519A 05/19/08 15:04
Sample ID: R08050229-002AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 268	mg/L	5.0	104	80	120	0.7	10	Run: PH_COND1-R_080519A 05/19/08 15:09
Method: A2510 B		Batch: 080523_1_COND-PROBE-W							
Sample ID: LCS_COND-1_080523 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080523B 05/23/08 15:55
Sample ID: LCS1-1_080523 Conductivity @ 25 C	Laboratory Control Sample 150	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080523B 05/23/08 15:56
Sample ID: LCS2-1_080523 Conductivity @ 25 C	Laboratory Control Sample 5000	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080523B 05/23/08 15:57
Sample ID: R08050321-001ADUP Conductivity @ 25 C	Sample Duplicate 1460	umhos/cm	5.0				2.8	10	Run: PH_COND2-R_080523B 05/23/08 16:24
Method: A2540 C		Batch: 080520A-SLDS-TDS-W							
Sample ID: LCS1_080520A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 210	mg/L	5.0	103	90	110			Run: BAL-4-R_080520A 05/20/08 09:30
Sample ID: MBLK1_080520A Solids, Total Dissolved TDS @ 180 C	Method Blank 4	mg/L	3						Run: BAL-4-R_080520A 05/20/08 09:32
Sample ID: R08040168-001ADUP Solids, Total Dissolved TDS @ 180 C	Sample Duplicate 440	mg/L	5.0				1.8	20	Run: BAL-4-R_080520A 05/20/08 09:33
Sample ID: R08050229-001AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 1100	mg/L	5.0	97	80	120			Run: BAL-4-R_080520A 05/20/08 10:05
Sample ID: R08050229-001AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 1100	mg/L	5.0	101	80	120	0.7	10	Run: BAL-4-R_080520A 05/20/08 10:07

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/14/08
 Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080519-ORP-ISE-W		
Sample ID: R08050143-001F	Sample Duplicate				Run: PH_COND1-R_080519B			05/19/08 00:00	
Oxidation-Reduction Potential	240	mV					2.2	10	
Method: A3114 B							Batch: C_SE3114-080603A		
Sample ID: MBLK	Method Blank				Run: SUB-C102059			06/03/08 11:03	
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-81-1	Laboratory Control Sample				Run: SUB-C102059			06/03/08 11:05	
Selenium-IV	0.051	mg/L	0.0010	101	90	110			
Sample ID: C08050602-001EMS	Sample Matrix Spike				Run: SUB-C102059			06/03/08 11:14	
Selenium-IV	0.051	mg/L	0.0010	101	85	115			
Sample ID: C08050602-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C102059			06/03/08 11:16	
Selenium-IV	0.051	mg/L	0.0010	103	85	115	1.1	10	
Sample ID: R08050321-005E	Sample Matrix Spike				Run: SUB-C102059			06/03/08 11:43	
Selenium-IV	0.046	mg/L	0.0010	92	85	115			
Sample ID: R08050321-005E	Sample Matrix Spike Duplicate				Run: SUB-C102059			06/03/08 11:45	
Selenium-IV	0.047	mg/L	0.0010	94	85	115	1.7	10	
Method: A3114 B							Batch: C_SE3114-080603B		
Sample ID: MBLK	Method Blank				Run: SUB-C102093			06/03/08 15:00	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-81-1	Laboratory Control Sample				Run: SUB-C102093			06/03/08 15:02	
Selenium	0.051	mg/L	0.0010	101	90	110			
Sample ID: C08050602-001EMS	Sample Matrix Spike				Run: SUB-C102093			06/03/08 15:06	
Selenium	0.049	mg/L	0.0010	98	85	115			
Sample ID: C08050602-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C102093			06/03/08 15:08	
Selenium	0.050	mg/L	0.0010	99	85	115	1.3	10	
Sample ID: R08050321-005E	Sample Matrix Spike				Run: SUB-C102093			06/03/08 15:36	
Selenium	0.045	mg/L	0.0010	91	85	115			
Sample ID: R08050321-005E	Sample Matrix Spike Duplicate				Run: SUB-C102093			06/03/08 15:38	
Selenium	0.045	mg/L	0.0010	90	85	115	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: 08/14/08
Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 080523_1_PH-W		
Sample ID: LCS_pH-1_080523	Laboratory Control Sample								
pH	6.92	s.u.	0.010	101	98.55	101.45			Run: PH_COND2-R_080523A 05/23/08 14:21
Sample ID: R08050229-001ADUP	Sample Duplicate								
pH	8.18	s.u.	0.010				0.4	1.25	Run: PH_COND2-R_080523A 05/23/08 14:33
Method: A4500-NH3 G							Batch: A2008-05-21_2_NH3_01		
Sample ID: MBLK-2	Method Blank								
Nitrogen, Ammonia as N	ND	mg/L	0.01						Run: TECHAA2-R_080521A 05/21/08 14:30
Sample ID: LFB-3	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.27	mg/L	0.10	109	90	110			Run: TECHAA2-R_080521A 05/21/08 14:31
Sample ID: LFB-4	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.26	mg/L	0.10	104	90	110			Run: TECHAA2-R_080521A 05/21/08 14:32
Sample ID: R08050215-008CMS	Sample Matrix Spike								
Nitrogen, Ammonia as N	0.25	mg/L	0.10	99	80	120			Run: TECHAA2-R_080521A 05/21/08 17:05
Sample ID: R08050215-008CMSD	Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N	0.23	mg/L	0.10	93	80	120	5.8	10	Run: TECHAA2-R_080521A 05/21/08 17:07
Sample ID: R08050215-001CMS	Sample Matrix Spike								
Nitrogen, Ammonia as N	0.27	mg/L	0.10	106	80	120			Run: TECHAA2-R_080521A 05/21/08 17:21
Sample ID: R08050215-001CMSD	Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N	0.27	mg/L	0.10	106	80	120	0.4	10	Run: TECHAA2-R_080521A 05/21/08 17:22
Method: D5072-92							Batch: C_R101703		
Sample ID: C08050968-002IDUP	Sample Duplicate								
Radon 222	141	pCi/L	100				12	30	Run: SUB-C101703 05/23/08 07:37
Sample ID: MB-R101703	Method Blank								
Radon 222	20	pCi/L							Run: SUB-C101703 05/23/08 07:37 U
Sample ID: LCS-R101703	Laboratory Control Sample								
Radon 222	301	pCi/L	100	92	70	130			Run: SUB-C101703 05/23/08 07:37

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: 08/14/08
 Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18674		
Sample ID: MB-18674	Method Blank			Run: SUB-C101828			05/27/08 21:06		
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						
Nickel	ND	mg/L	0.005						
Strontium	ND	mg/L	0.0004						
Zinc	0.007	mg/L	0.001						
Sample ID: LCS3-18674	Laboratory Control Sample			Run: SUB-C101828			05/27/08 21:11		
Barium	0.53	mg/L	0.10	106	85	115			
Boron	0.51	mg/L	0.10	102	85	115			
Chromium	0.52	mg/L	0.050	104	85	115			
Copper	0.52	mg/L	0.010	104	85	115			
Iron	5.5	mg/L	0.030	111	85	115			
Manganese	2.6	mg/L	0.010	105	85	115			
Nickel	0.52	mg/L	0.050	104	85	115			
Strontium	0.54	mg/L	0.10	108	85	115			
Zinc	0.52	mg/L	0.010	103	85	115			
Sample ID: C08050971-007B MS3	Sample Matrix Spike			Run: SUB-C101828			05/27/08 23:08		
Barium	0.58	mg/L	0.10	105	70	130			
Boron	0.60	mg/L	0.10	106	70	130			
Chromium	0.54	mg/L	0.050	107	70	130			
Copper	0.53	mg/L	0.010	106	70	130			
Iron	5.6	mg/L	0.030	111	70	130			
Manganese	2.7	mg/L	0.010	106	70	130			
Nickel	0.54	mg/L	0.050	107	70	130			
Strontium	1.3	mg/L	0.10	101	70	130			
Zinc	0.53	mg/L	0.010	105	70	130			
Sample ID: C08050971-007B MSD3	Sample Matrix Spike Duplicate			Run: SUB-C101828			05/27/08 23:12		
Barium	0.58	mg/L	0.10	104	70	130	1.4	20	
Boron	0.59	mg/L	0.10	104	70	130	1.5	20	
Chromium	0.53	mg/L	0.050	106	70	130	1.3	20	
Copper	0.52	mg/L	0.010	104	70	130	1.9	20	
Iron	5.6	mg/L	0.030	111	70	130	0.2	20	
Manganese	2.6	mg/L	0.010	106	70	130	0.6	20	
Nickel	0.53	mg/L	0.050	106	70	130	1.1	20	
Strontium	1.3	mg/L	0.10	102	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: 08/14/08
Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18674
Sample ID: C08050971-007B MSD3	Sample Matrix Spike Duplicate					Run: SUB-C101828			05/27/08 23:12
Zinc	0.52	mg/L	0.010	104	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: 08/14/08
Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R102193		
Sample ID: MB-080604A	Method Blank		Run: SUB-C102193			06/04/08 15:38			
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	0.03	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	0.02	mg/L	0.002						
Iron	0.1	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	0.002	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						
Vanadium	0.02	mg/L	0.003						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080604A	Laboratory Fortified Blank		Run: SUB-C102193			06/04/08 15:42			
Silica	0.38	mg/L	0.10	94	85	125			
Aluminum	0.93	mg/L	0.10	93	85	125			
Barium	1.0	mg/L	0.10	103	85	125			
Boron	1.1	mg/L	0.10	103	85	125			
Calcium	53	mg/L	0.50	106	85	125			
Chromium	1.0	mg/L	0.050	102	85	125			
Iron	1.1	mg/L	0.030	99	85	125			
Magnesium	53	mg/L	0.50	107	85	125			
Manganese	1.0	mg/L	0.010	104	85	125			
Molybdenum	1.0	mg/L	0.10	100	85	125			
Nickel	1.0	mg/L	0.050	103	85	125			
Potassium	49	mg/L	0.50	98	85	125			
Sodium	49	mg/L	0.77	98	85	125			
Vanadium	1.1	mg/L	0.10	109	85	125			
Zinc	1.0	mg/L	0.010	104	85	125			
Sample ID: C08050913-002CMS2	Sample Matrix Spike		Run: SUB-C102193			06/04/08 18:39			
Aluminum	2.09	mg/L	0.10	103	70	130			
Barium	2.04	mg/L	0.10	99	70	130			
Boron	2.14	mg/L	0.10	102	70	130			
Chromium	2.10	mg/L	0.050	103	70	130			
Iron	2.16	mg/L	0.030	105	70	130			
Manganese	2.23	mg/L	0.010	99	70	130			
Molybdenum	2.01	mg/L	0.10	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: 08/14/08
Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R102193		
Sample ID: C08050913-002CMS2	Sample Matrix Spike			Run: SUB-C102193			06/04/08 18:39		
Nickel	2.08	mg/L	0.050	102	70	130			
Vanadium	2.08	mg/L	0.10	102	70	130			
Zinc	2.10	mg/L	0.010	103	70	130			
Calcium	177	mg/L	1.0	103	70	130			
Magnesium	135	mg/L	1.0	103	70	130			
Potassium	102	mg/L	1.0	89	70	130			
Silica	4.17	mg/L	0.10		70	130			A
Sodium	286	mg/L	1.5	97	70	130			
Sample ID: C08050913-002CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C102193			06/04/08 18:43		
Aluminum	2.03	mg/L	0.10	99	70	130	3.1	20	
Barium	2.11	mg/L	0.10	103	70	130	3.6	20	
Boron	2.16	mg/L	0.10	104	70	130	1.3	20	
Chromium	2.13	mg/L	0.050	104	70	130	1.6	20	
Iron	2.21	mg/L	0.030	107	70	130	2.2	20	
Manganese	2.28	mg/L	0.010	102	70	130	2.4	20	
Molybdenum	2.08	mg/L	0.10	102	70	130	3.6	20	
Nickel	2.09	mg/L	0.050	103	70	130	0.4	20	
Vanadium	2.14	mg/L	0.10	105	70	130	2.8	20	
Zinc	2.13	mg/L	0.010	104	70	130	1.3	20	
Calcium	180	mg/L	1.0	105	70	130	1.1	20	
Magnesium	136	mg/L	1.0	105	70	130	1.2	20	
Potassium	102	mg/L	1.0	89	70	130	0.4	20	
Silica	4.21	mg/L	0.10		70	130	1.1	20	A
Sodium	282	mg/L	1.5	92	70	130	1.5	20	
Method: E200.8							Batch: C_18688		
Sample ID: C08050953-001FMS	Sample Matrix Spike			Run: SUB-C102315			06/07/08 18:31		
Uranium	0.0132	mg/L	0.00030	97	70	130			
Sample ID: C08050953-001FMSD	Sample Matrix Spike Duplicate			Run: SUB-C102315			06/07/08 18:36		
Uranium	0.0133	mg/L	0.00030	98	70	130	0.8	20	
Sample ID: R08050321-005I	Post Digestion Spike			Run: SUB-C102315			06/07/08 22:50		
Uranium	0.0128	mg/L	0.00030	97	70	130			
Sample ID: R08050321-005I	Post Digestion Spike Duplicate			Run: SUB-C102315			06/07/08 22:55		
Uranium	0.0129	mg/L	0.00030	98	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/14/08
 Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18768		
Sample ID: MB-18768	Method Blank			Run: SUB-C102298			06/06/08 16:00		
Antimony	ND	mg/L	0.0002						
Arsenic	0.0007	mg/L	5E-05						
Cadmium	ND	mg/L	4E-05						
Lead	ND	mg/L	5E-05						
Molybdenum	ND	mg/L	7E-05						
Selenium	0.0003	mg/L	0.0002						
Silver	0.0001	mg/L	5E-05						
Thallium	0.0001	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18768	Laboratory Control Sample			Run: SUB-C102298			06/06/08 16:07		
Antimony	0.580	mg/L	0.050	116	85	115			
Arsenic	0.562	mg/L	0.0010	112	85	115			
Cadmium	0.275	mg/L	0.010	110	85	115			
Lead	0.568	mg/L	0.050	114	85	115			
Molybdenum	0.544	mg/L	0.10	109	85	115			
Selenium	0.569	mg/L	0.0020	114	85	115			
Silver	0.0480	mg/L	0.010	96	85	115			
Thallium	0.564	mg/L	0.10	113	85	115			
Sample ID: C08051073-001MMS3	Sample Matrix Spike			Run: SUB-C102298			06/06/08 18:56		
Antimony	0.540	mg/L	0.050	108	70	130			
Arsenic	0.536	mg/L	0.0010	107	70	130			
Cadmium	0.263	mg/L	0.010	105	70	130			
Lead	0.529	mg/L	0.050	105	70	130			
Molybdenum	0.531	mg/L	0.10	103	70	130			
Selenium	0.527	mg/L	0.0020	104	70	130			
Silver	0.0433	mg/L	0.010	87	70	130			
Thallium	0.519	mg/L	0.10	104	70	130			
Uranium	0.557	mg/L	0.00032	110	70	130			
Sample ID: C08051073-001MMSD3	Sample Matrix Spike Duplicate			Run: SUB-C102298			06/06/08 19:23		
Antimony	0.539	mg/L	0.050	108	70	130	0.2	20	
Arsenic	0.535	mg/L	0.0010	106	70	130	0.2	20	
Cadmium	0.264	mg/L	0.010	106	70	130	0.4	20	
Lead	0.529	mg/L	0.050	105	70	130	0.1	20	
Molybdenum	0.529	mg/L	0.10	103	70	130	0.4	20	
Selenium	0.534	mg/L	0.0020	105	70	130	1.3	20	
Silver	0.0451	mg/L	0.010	90	70	130	4.0	20	
Thallium	0.522	mg/L	0.10	104	70	130	0.5	20	
Uranium	0.572	mg/L	0.00032	113	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: 08/14/08
Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18768
Sample ID: LCS3-18768	Laboratory Control Sample					Run: SUB-C102315			06/07/08 12:11
Arsenic	0.519	mg/L	0.0010	104	85	115			
Lead	0.509	mg/L	0.050	102	85	115			
Molybdenum	0.504	mg/L	0.10	101	85	115			
Selenium	0.519	mg/L	0.0020	104	85	115			
Uranium	0.519	mg/L	0.00032	104	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: 08/14/08
 Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8							Batch: C_R102203			
Sample ID: LRB	Method Blank			Run: SUB-C102203			06/04/08 12:01			
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-C102203			06/04/08 12:07			
Arsenic	0.0502	mg/L	0.0010	100	85	115				
Cadmium	0.0502	mg/L	0.0010	100	85	115				
Copper	0.0509	mg/L	0.0010	102	85	115				
Lead	0.0503	mg/L	0.0010	101	85	115				
Mercury	0.00499	mg/L	0.0010	100	85	115				
Silver	0.0200	mg/L	0.0010	100	85	115				
Thorium 232	0.0495	mg/L	0.0010	99	85	115				
Uranium	0.0501	mg/L	0.00030	100	85	115				
Sample ID: C08050903-007GMS4	Post Digestion Spike			Run: SUB-C102203			06/04/08 15:26			
Arsenic	0.0518	mg/L	0.0010	101	70	130				
Cadmium	0.0475	mg/L	0.010	95	70	130				
Copper	0.0482	mg/L	0.010	95	70	130				
Lead	0.0498	mg/L	0.050	100	70	130				
Mercury	0.00459	mg/L	0.0010	92	70	130				
Silver	0.00192	mg/L	0.010	10	70	130			S	
Thorium 232	0.0526	mg/L	0.0010	105	70	130				
Uranium	0.170	mg/L	0.00030	107	70	130				
Sample ID: C08050903-007GMSD4	Post Digestion Spike Duplicate			Run: SUB-C102203			06/04/08 15:32			
Arsenic	0.0525	mg/L	0.0010	102	70	130	1.3	20		
Cadmium	0.0480	mg/L	0.010	96	70	130	1.0	20		
Copper	0.0485	mg/L	0.010	95	70	130	0.7	20		
Lead	0.0507	mg/L	0.050	101	70	130	1.7	20		
Mercury	0.00480	mg/L	0.0010	96	70	130	4.6	20		
Silver	0.000603	mg/L	0.010	3	70	130	0.0	20	S	
Thorium 232	0.0539	mg/L	0.0010	107	70	130	2.5	20		
Uranium	0.172	mg/L	0.00030	110	70	130	1.1	20		
Sample ID: C08050968-002BMS4	Post Digestion Spike			Run: SUB-C102203			06/04/08 17:02			
Arsenic	0.0517	mg/L	0.0010	100	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: 08/14/08
 Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R102203		
Sample ID: C08050968-002BMS4	Post Digestion Spike			Run: SUB-C102203			06/04/08 17:02		
Cadmium	0.0475	mg/L	0.010	95	70	130			
Copper	0.0492	mg/L	0.010	95	70	130			
Lead	0.0519	mg/L	0.050	103	70	130			
Mercury	0.00525	mg/L	0.0010	105	70	130			
Silver	0.0172	mg/L	0.010	86	70	130			
Thorium 232	0.0533	mg/L	0.0010	107	70	130			
Uranium	0.0536	mg/L	0.00030	107	70	130			
Sample ID: C08050968-002BMSD4	Post Digestion Spike Duplicate			Run: SUB-C102203			06/04/08 17:09		
Arsenic	0.0512	mg/L	0.0010	99	70	130	1.0	20	
Cadmium	0.0468	mg/L	0.010	94	70	130	1.5	20	
Copper	0.0480	mg/L	0.010	92	70	130	2.6	20	
Lead	0.0507	mg/L	0.050	101	70	130	2.2	20	
Mercury	0.00513	mg/L	0.0010	103	70	130	2.3	20	
Silver	0.0154	mg/L	0.010	77	70	130	11	20	
Thorium 232	0.0527	mg/L	0.0010	105	70	130	1.1	20	
Uranium	0.0525	mg/L	0.00030	104	70	130	2.2	20	
Method: E245.1							Batch: C_B_32786		
Sample ID: MB-32786	Method Blank			Run: SUB-C102258			06/04/08 17:57		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-32786	Laboratory Fortified Blank			Run: SUB-C102258			06/04/08 18:05		
Mercury	0.0019	mg/L	0.0010	91	85	115			
Sample ID: B08052561-001DMS	Sample Matrix Spike			Run: SUB-C102258			06/04/08 18:14		
Mercury	0.0019	mg/L	0.0010	94	70	130			
Sample ID: B08052561-001DMSD	Sample Matrix Spike Duplicate			Run: SUB-C102258			06/04/08 18:16		
Mercury	0.0021	mg/L	0.0010	100	70	130	7.0	30	
Sample ID: B08052499-002CMS	Sample Matrix Spike			Run: SUB-C102258			06/04/08 19:08		
Mercury	0.0017	mg/L	0.0010	87	70	130			
Sample ID: B08052499-002CMSD	Sample Matrix Spike Duplicate			Run: SUB-C102258			06/04/08 19:11		
Mercury	0.0016	mg/L	0.0010	79	70	130	9.1	30	
Method: E245.1							Analytical Run: SUB-C102258		
Sample ID: QCS	Initial Calibration Verification Standard						06/04/08 17:50		
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: 08/14/08
Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R34857		
Sample ID: LFB0805201727-3	Laboratory Fortified Blank			Run: DIONEX_080520A			05/20/08 13:29		
Chloride	4.71	mg/L	0.50	94	90	110			
Fluoride	1.82	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.40	mg/L	0.10	96	90	110			
Sulfate	13.9	mg/L	1.0	92	90	110			
Sample ID: LFB0805201727-4	Laboratory Fortified Blank			Run: DIONEX_080520A			05/20/08 13:46		
Chloride	4.66	mg/L	0.50	93	90	110			
Fluoride	1.80	mg/L	0.10	90	90	110			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.38	mg/L	0.10	95	90	110			
Sulfate	13.8	mg/L	1.0	92	90	110			
Sample ID: R08050229-001AMS	Sample Matrix Spike			Run: DIONEX_080520A			05/20/08 14:19		
Chloride	257	mg/L	5.4	90	80	120			
Fluoride	94.2	mg/L	0.56	87	80	120			
Nitrogen, Nitrate as N	119	mg/L	1.3	95	80	120			
Nitrogen, Nitrite as N	124	mg/L	2.9	99	80	120			
Sulfate	1110	mg/L	3.4	86	80	120			
Sample ID: R08050229-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080520A			05/20/08 14:35		
Chloride	249	mg/L	5.4	87	80	120	3.1	10	
Fluoride	91.2	mg/L	0.56	84	80	120	3.3	10	
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120	2.8	10	
Nitrogen, Nitrite as N	120	mg/L	2.9	96	80	120	3.3	10	
Sulfate	1090	mg/L	3.4	83	80	120	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: 08/14/08
 Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0457		
Sample ID: MB-GrAB-0457	Method Blank				Run: SUB-C102579				06/11/08 08:06
Gross Alpha	0.05	pCi/L							U
Gross Beta	-1	pCi/L							U
Sample ID: Th230-GrAB-0457	Laboratory Control Sample				Run: SUB-C102579				06/11/08 08:06
Gross Alpha	140	pCi/L	100	70	130				
Sample ID: Cs137-GrAB-0457	Laboratory Control Sample				Run: SUB-C102579				06/11/08 08:06
Gross Beta	87	pCi/L	94	70	130				
Sample ID: C08050953-001EMS	Sample Matrix Spike				Run: SUB-C102579				06/11/08 08:06
Gross Alpha	160	pCi/L	77	70	130				
Sample ID: C08050953-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C102579				06/11/08 08:06
Gross Alpha	150	pCi/L	75	70	130	1.7	17.5		
Sample ID: C08050953-001EMS	Sample Matrix Spike				Run: SUB-C102579				06/11/08 08:06
Gross Beta	100	pCi/L	93	70	130				
Sample ID: C08050953-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C102579				06/11/08 08:06
Gross Beta	99	pCi/L	91	70	130	2.5	15.6		
Method: E901.1							Batch: C_R101877		
Sample ID: LCS-R101877	Laboratory Control Sample				Run: SUB-C101877				05/28/08 05:30
Cesium 137	1140	pCi/L	20	82	70	130			
Sample ID: MB-R101877	Method Blank				Run: SUB-C101877				05/28/08 05:30
Gross Gamma	ND	pCi/L							U
Sample ID: R08050229-001H	Sample Duplicate				Run: SUB-C101877				05/28/08 05:30
Gross Gamma	6600	pCi/L	20				0.1	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: 08/14/08
 Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_18688		
Sample ID: C08050913-001IMS Radium 226	Sample Matrix Spike 77	pCi/L		98	70	130			06/03/08 08:59
					Run: SUB-C102137				
Sample ID: C08050913-001IMSD Radium 226	Sample Matrix Spike Duplicate 72	pCi/L		91	70	130	7.4	25.5	06/03/08 08:59
					Run: SUB-C102137				
Sample ID: MB-18688 Radium 226	Method Blank -0.4	pCi/L							06/03/08 10:37 U
					Run: SUB-C102137				
Sample ID: LCS-18688 Radium 226	Laboratory Control Sample 15	pCi/L		99	70	130			06/03/08 10:37
					Run: SUB-C102137				
Method: E903.0							Batch: C_RA226-2834		
Sample ID: C08050917-001AMS Radium 226	Sample Matrix Spike 430	pCi/L		-30	70	130			06/08/08 16:51 S
- Sample response is much larger than spike amount, therefore small variances in the sample adversely affected the recovery. The LCS and the RPD of the MS/MSD pair meets acceptance criteria; this batch is approved.									
Sample ID: C08050917-001AMSD Radium 226	Sample Matrix Spike Duplicate 430	pCi/L		53	70	130	1.5	17.2	06/08/08 16:58 S
					Run: SUB-C102415				
- Sample response is much larger than spike amount, therefore small variances in the sample adversely affected the recovery. The LCS and the RPD of the MS/MSD pair meets acceptance criteria; this batch is approved.									
Sample ID: MB-RA226-2834 Radium 226	Method Blank 0.06	pCi/L							06/09/08 13:54 U
					Run: SUB-C102415				
Sample ID: LCS-RA226-2834 Radium 226	Laboratory Control Sample 7.4	pCi/L		93	70	130			06/09/08 15:24
					Run: SUB-C102415				
Method: E907.0							Batch: C_18688		
Sample ID: R08050321-001I Thorium 230	Sample Matrix Spike 20.6	pCi/L	0.20	88	70	130			05/29/08 15:00
					Run: SUB-C102353				
Sample ID: R08050321-001I Thorium 230	Sample Matrix Spike Duplicate 22.8	pCi/L	0.20	102	70	130	10	30	05/29/08 15:00
					Run: SUB-C102353				
Sample ID: LCS-18688 Thorium 230	Laboratory Control Sample 51.0	pCi/L	0.20	107	70	130			05/29/08 15:00
					Run: SUB-C102353				
Sample ID: MB-18688 Thorium 230	Method Blank -0.2	pCi/L							05/29/08 15:00 U
					Run: SUB-C102353				

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: 08/14/08
 Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R102565		
Sample ID: LCS-R102565	Laboratory Control Sample				Run: SUB-C102565		06/05/08 15:00		
Thorium 230	6.70	pCi/L	0.20	96	70	130			
Sample ID: R08050229-002H	Sample Matrix Spike				Run: SUB-C102565		06/05/08 15:00		
Thorium 230	16.6	pCi/L	0.20	103	70	130			
Sample ID: R08050229-002H	Sample Matrix Spike Duplicate				Run: SUB-C102565		06/05/08 15:00		
Thorium 230	14.3	pCi/L	0.20	89	70	130	15	30	
Sample ID: MB-R102565	Method Blank				Run: SUB-C102565		06/05/08 15:00		
Thorium 230	ND	pCi/L							U
Method: E909.0M							Batch: C_R104902		
Sample ID: C08050913-003IMS	Sample Matrix Spike				Run: SUB-C104902		07/03/08 09:50		
Lead 210	1200	pCi/L		105	70	130			
Sample ID: C08050913-003IMSD	Sample Matrix Spike Duplicate				Run: SUB-C104902		07/03/08 09:50		
Lead 210	1000	pCi/L		89	70	130	17	30	
Sample ID: MB-R104902	Method Blank				Run: SUB-C104902		07/03/08 09:50		
Lead 210	1	pCi/L							U
Sample ID: LCS-R104902	Laboratory Control Sample				Run: SUB-C104902		07/03/08 09:50		
Lead 210	61	pCi/L		101	70	130			
Method: E909.0M							Batch: C_R105446		
Sample ID: C08050919-002HMS	Sample Matrix Spike				Run: SUB-C105446		06/25/08 11:25		
Lead 210	550	pCi/L		92	70	130			
Sample ID: C08050919-002HMSD	Sample Matrix Spike Duplicate				Run: SUB-C105446		06/25/08 11:25		
Lead 210	420	pCi/L		71	70	130	26	30	
Sample ID: R08050321-002H	Sample Duplicate				Run: SUB-C105446		06/25/08 11:25		
Lead 210	80	pCi/L					25	30	
Sample ID: MB-R105446	Method Blank				Run: SUB-C105446		06/25/08 11:25		
Lead 210	ND	pCi/L							U
Sample ID: LCS-R105446	Laboratory Control Sample				Run: SUB-C105446		06/25/08 11:25		
Lead 210	140	pCi/L		115	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: 08/14/08
 Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R102444		
Sample ID: C08050737-001HMS	Sample Matrix Spike				Run: SUB-C102444			06/03/08 17:45	
Polonium 210	51	pCi/L	1.0	112	70	130			
Sample ID: C08050737-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C102444			06/03/08 17:45	
Polonium 210	48	pCi/L	1.0	107	70	130	5.0	30	
Sample ID: LCS-R102444	Laboratory Control Sample				Run: SUB-C102444			06/03/08 17:45	
Polonium 210	58	pCi/L	1.0	133	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-R102444	Method Blank				Run: SUB-C102444			06/03/08 17:45	
Polonium 210	-0.1	pCi/L							U
Method: RMO-3008							Batch: C_R103071		
Sample ID: R08050321-005I	Sample Matrix Spike				Run: SUB-C103071			06/19/08 12:00	
Polonium 210	42	pCi/L	1.0	99	70	130			
Sample ID: R08050321-005I	Sample Matrix Spike Duplicate				Run: SUB-C103071			06/19/08 12:00	
Polonium 210	52	pCi/L	1.0	124	70	130	21	30	
Sample ID: LCS-R103071	Laboratory Control Sample				Run: SUB-C103071			06/19/08 12:00	
Polonium 210	110	pCi/L	1.0	121	70	130			
Sample ID: MB-R103071	Method Blank				Run: SUB-C103071			06/19/08 12:00	
Polonium 210	0.5	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



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC Report Mail Address: RESPEC Invoice Address:		Project Name, PWS, Permit, Etc. Rover Tech Dewey Burdock Contact Name: Cory Foreman Phone/Fax: cory.foreman@respec.com Invoice Contact & Phone:		Sample Origin State: SD EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/> Sampler: (Please Print) Eric Lentz	
Special Report/Formats - EI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> Format: _____ <input type="checkbox"/> State: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: _____ <input type="checkbox"/> NELAC		Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other		ANALYSIS REQUESTED As per scope	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) 1 DewBurd GW 681 5/18/08 11:18 W 2 DewBurd GW 679 5/18/08 15:00 W		SEE ATTACHED Normal Turnaround (TAT)		PURCHASE ORDER:	
Date/Time: _____ Signature: _____ Received by (Print): _____ Date/Time: _____		Contact EI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments:		Shipped by: Cooler Dry: Receipt Temp: 12.8 °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal: Y N Intact: Y N Signature: Y N Match: Y N	
Signature: _____ Date/Time: _____ Received by (Print): _____ Date/Time: _____		Signature: _____ Date/Time: _____ Received by (Print): _____ Date/Time: _____		Signature: _____ Date/Time: _____ Received by (Print): _____ Date/Time: _____	

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



ANALYTICAL SUMMARY REPORT

July 30, 2008

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

Workorder No.: R08050251 Quote ID: R286

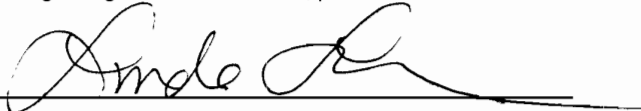
Project Name: Edgemont

Energy Laboratories Inc. received the following 3 samples from RESPEC Inc on 5/20/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08050251-001	DewBurd GW631	05/19/08 11:06	05/20/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08050251-002	DewBurd GW13	05/19/08 12:20	05/20/08	Aqueous	Same As Above
R08050251-003	DewBurd GW4002	05/19/08 13:00	05/20/08	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



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050251-001
 Client Sample ID: DewBurd GW631

Report Date: 07/30/08
 Collection Date: 05/19/08 11:06
 Date Received: 05/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	164	mg/L		5		1	A2320 B	05/22/08 09:44/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/22/08 09:44/mb
Bicarbonate as HCO3	200	mg/L		5		1	A2320 B	05/22/08 09:44/mb
Calcium	375	mg/L		0.5		2	E200.7	06/04/08 18:19/eli-c
Chloride	10	mg/L		1		1	E300.0	05/20/08 16:30/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	05/20/08 16:30/jmh
Magnesium	110	mg/L		0.5		2	E200.7	06/04/08 18:19/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/21/08 17:42/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/20/08 16:30/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/20/08 16:30/jmh
Potassium	16.3	mg/L		0.5		2	E200.7	06/04/08 18:19/eli-c
Silica	3.5	mg/L		0.5		2	E200.7	06/04/08 18:19/eli-c
Sodium	107	mg/L	D	2		2	E200.7	06/04/08 18:19/eli-c
Sulfate	1250	mg/L	D	3		50	E300.0	05/20/08 16:14/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2530	umhos/cm		5.0		1	A2510 B	05/23/08 16:05/tb
Oxidation-Reduction Potential	230	mV				1	A2580 B	05/23/08 00:00/kh
pH	7.54	s.u.		0.01		1	A4500-H B	05/23/08 14:45/kh
Sodium Adsorption Ratio (SAR)	1.2	unitless		0.10		1	Calculation	07/29/08 15:22/ADM
Solids, Total Dissolved TDS @ 180 C	2000	mg/L		5		1	A2540 C	05/20/08 12:36/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/04/08 18:19/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/04/08 15:39/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/04/08 18:19/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	06/04/08 18:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/04/08 15:39/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/04/08 18:19/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/04/08 15:39/eli-c
Iron	0.39	mg/L		0.03		2	E200.7	06/04/08 18:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/04/08 15:39/eli-c
Manganese	0.33	mg/L		0.01		2	E200.7	06/04/08 18:19/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/04/08 15:39/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/04/08 18:19/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/04/08 18:19/eli-c
Selenium	ND	mg/L		0.005		1	A3114 B	06/03/08 15:10/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/04/08 15:39/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050251-001
 Client Sample ID: DewBurd GW631

Report Date: 07/30/08
 Collection Date: 05/19/08 11:06
 Date Received: 05/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 06/04/08 15:39/eli-c
Uranium	0.0026	mg/L		0.0003		1	E200.8 06/04/08 15:39/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 06/04/08 18:19/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 06/04/08 18:19/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 06/07/08 21:41/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 06/03/08 11:18/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	60.7	pCi/L				1	E900.0 06/11/08 08:06/eli-c
Gross Alpha precision (±)	7.9	pCi/L				1	E900.0 06/11/08 08:06/eli-c
Gross Alpha MDC	6.5	pCi/L				1	E900.0 06/11/08 08:06/eli-c
Gross Beta	26.2	pCi/L				1	E900.0 06/11/08 08:06/eli-c
Gross Beta precision (±)	4.4	pCi/L				1	E900.0 06/11/08 08:06/eli-c
Gross Beta MDC	6.6	pCi/L				1	E900.0 06/11/08 08:06/eli-c
Lead 210	0.5	pCi/L	U			1	E909.0M 06/27/08 08:45/eli-c
Lead 210 MDC	16.0	pCi/L				1	E909.0M 06/27/08 08:45/eli-c
Lead 210 precision (±)	9.6	pCi/L				1	E909.0M 06/27/08 08:45/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008 06/03/08 17:45/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008 06/03/08 17:45/eli-c
Radium 226	22.1	pCi/L				1	E903.0 06/08/08 09:46/eli-c
Radium 226 precision (±)	1.0	pCi/L				1	E903.0 06/08/08 09:46/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0 06/04/08 10:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 06/04/08 10:00/eli-c
Gross Gamma	130	pCi/L		20		1	E901.1 05/28/08 05:30/eli-c
Gross Gamma precision (±)	27	pCi/L				1	E901.1 05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-1.4	pCi/L	U			1	E909.0M 07/03/08 09:50/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M 07/03/08 09:50/eli-c
Lead 210 MDC	8.8	pCi/L				1	E909.0M 07/03/08 09:50/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008 06/19/08 12:00/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008 06/19/08 12:00/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0 06/03/08 08:59/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050251-001
 Client Sample ID: DewBurd GW631

Report Date: 07/30/08
 Collection Date: 05/19/08 11:06
 Date Received: 05/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	06/03/08 08:59/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	06/03/08 08:59/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	05/29/08 15:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	05/29/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	4430	pCi/L		100			1	D5072-92	05/23/08 07:37/eli-c
Radon 222 precision (±)	112	pCi/L					1	D5072-92	05/23/08 07:37/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/06/08 17:08/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	06/06/08 17:08/eli-c
Barium	ND	mg/L		0.1			2	E200.7	05/27/08 21:15/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/09/08 14:38/eli-c
Boron	0.2	mg/L		0.1			2	E200.7	05/27/08 21:15/eli-c
Cadmium	ND	mg/L		0.001			1	E200.8	06/06/08 17:08/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	05/27/08 21:15/eli-c
Copper	ND	mg/L		0.01			2	E200.7	05/27/08 21:15/eli-c
Iron	0.98	mg/L		0.03			2	E200.7	05/27/08 21:15/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/06/08 17:08/eli-c
Manganese	0.32	mg/L		0.01			2	E200.7	05/27/08 21:15/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/04/08 19:47/eli-b
Molybdenum	ND	mg/L		0.01			1	E200.8	06/06/08 17:08/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	05/27/08 21:15/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/06/08 17:08/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/06/08 17:08/eli-c
Strontium	6.8	mg/L		0.1			2	E200.7	05/27/08 21:15/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/06/08 17:08/eli-c
Uranium	0.0028	mg/L		0.0003			1	E200.8	06/06/08 17:08/eli-c
Zinc	0.01	mg/L		0.01			2	E200.7	05/27/08 21:15/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.08	%					1	A1030 E	07/29/08 00:00/jmh
Anions	29.7	meq/L					1	A1030 E	07/29/08 00:00/jmh
Cations	32.8	meq/L					1	A1030 E	07/29/08 00:00/jmh
Solids, Total Dissolved Calculated	1980	mg/L					1	A1030 E	07/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.02						1	A1030 E	07/29/08 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



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050251-002
 Client Sample ID: DewBurd GW13

Report Date: 07/30/08
 Collection Date: 05/19/08 12:20
 Date Received: 05/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	156	mg/L		5		1	A2320 B 05/22/08 09:59/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 05/22/08 09:59/mb
Bicarbonate as HCO3	190	mg/L		5		1	A2320 B 05/22/08 09:59/mb
Calcium	72.4	mg/L		0.5		2	E200.7 06/04/08 18:35/eli-c
Chloride	10	mg/L		1		1	E300.0 05/20/08 18:09/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0 05/20/08 18:09/jmh
Magnesium	29.5	mg/L		0.5		2	E200.7 06/04/08 18:35/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 05/21/08 17:43/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 05/20/08 18:09/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 05/20/08 18:09/jmh
Potassium	11.5	mg/L		0.5		2	E200.7 06/04/08 18:35/eli-c
Silica	3.6	mg/L		0.5		2	E200.7 06/04/08 18:35/eli-c
Sodium	188	mg/L	D	2		2	E200.7 06/04/08 18:35/eli-c
Sulfate	442	mg/L	D	3		50	E300.0 05/20/08 17:19/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1420	umhos/cm		5.0		1	A2510 B 05/23/08 16:08/tb
Oxidation-Reduction Potential	260	mV				1	A2580 B 05/23/08 00:00/kh
pH	7.96	s.u.		0.01		1	A4500-H B 05/23/08 14:46/kh
Sodium Adsorption Ratio (SAR)	4.7	unitless		0.10		1	Calculation 07/29/08 15:22/ADM
Solids, Total Dissolved TDS @ 180 C	880	mg/L		5		1	A2540 C 05/20/08 12:36/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 06/04/08 18:35/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 06/04/08 15:46/eli-c
Barium	ND	mg/L		0.1		2	E200.7 06/04/08 18:35/eli-c
Boron	ND	mg/L		0.1		2	E200.7 06/04/08 18:35/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 06/04/08 15:46/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 06/04/08 18:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8 06/04/08 15:46/eli-c
Iron	ND	mg/L		0.03		2	E200.7 06/04/08 18:35/eli-c
Lead	ND	mg/L		0.001		1	E200.8 06/04/08 15:46/eli-c
Manganese	0.20	mg/L		0.01		2	E200.7 06/04/08 18:35/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 06/04/08 15:46/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 06/04/08 18:35/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 06/04/08 18:35/eli-c
Selenium	ND	mg/L		0.005		1	A3114 B 06/03/08 15:12/eli-c
Silver	ND	mg/L		0.005		1	E200.8 06/04/08 15:46/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050251-002
Client Sample ID: DewBurd GW13

Report Date: 07/30/08
Collection Date: 05/19/08 12:20
Date Received: 05/20/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/04/08 15:46/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	06/04/08 15:46/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/04/08 18:35/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	06/04/08 18:35/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/07/08 21:46/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/03/08 11:20/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	4.2	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Alpha precision (±)	2.2	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Alpha MDC	3.0	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Beta	10.3	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Beta precision (±)	2.1	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Beta MDC	3.3	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Lead 210	4.1	pCi/L	U			1	E909.0M	06/27/08 08:45/eli-c
Lead 210 MDC	16.0	pCi/L				1	E909.0M	06/27/08 08:45/eli-c
Lead 210 precision (±)	9.6	pCi/L				1	E909.0M	06/27/08 08:45/eli-c
Polonium 210	-0.6	pCi/L	U	1.0		1	RMO-3008	06/03/08 17:45/eli-c
Polonium 210 precision (±)	0.10	pCi/L				1	RMO-3008	06/03/08 17:45/eli-c
Radium 226	1.6	pCi/L				1	E903.0	06/08/08 15:48/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	06/08/08 15:48/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/04/08 10:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/04/08 10:00/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/28/08 05:30/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.2	pCi/L	U			1	E909.0M	07/03/08 09:50/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Lead 210 MDC	8.8	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	06/19/08 12:00/eli-c
Polonium 210 precision (±)	0.26	pCi/L				1	RMO-3008	06/19/08 12:00/eli-c
Radium 226	0.01	pCi/L	U			1	E903.0	06/03/08 08:59/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: R08050251-002
 Client Sample ID: DewBurd GW13

Report Date: 07/30/08
 Collection Date: 05/19/08 12:20
 Date Received: 05/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	06/03/08 08:59/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	06/03/08 08:59/eli-c
Thorium 230	0.2	pCi/L	U	0.2			1	E907.0	05/29/08 15:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	05/29/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	412	pCi/L		100			1	D5072-92	05/23/08 07:37/eli-c
Radon 222 precision (±)	70.5	pCi/L					1	D5072-92	05/23/08 07:37/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/06/08 17:15/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	06/06/08 17:15/eli-c
Barium	ND	mg/L		0.1			2	E200.7	05/27/08 21:23/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/09/08 14:45/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/27/08 21:23/eli-c
Cadmium	ND	mg/L		0.001			1	E200.8	06/06/08 17:15/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	05/27/08 21:23/eli-c
Copper	ND	mg/L		0.01			2	E200.7	05/27/08 21:23/eli-c
Iron	4.56	mg/L		0.03			2	E200.7	05/27/08 21:23/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/06/08 17:15/eli-c
Manganese	0.20	mg/L		0.01			2	E200.7	05/27/08 21:23/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/04/08 19:50/eli-b
Molybdenum	ND	mg/L		0.01			1	E200.8	06/06/08 17:15/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	05/27/08 21:23/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/06/08 17:15/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/06/08 17:15/eli-c
Strontium	1.7	mg/L		0.1			2	E200.7	05/27/08 21:23/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/06/08 17:15/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	06/06/08 17:15/eli-c
Zinc	0.04	mg/L		0.01			2	E200.7	05/27/08 21:23/eli-c
DATA QUALITY									
A/C Balance (± 5)	6.97	%					1	A1030 E	07/29/08 00:00/jmh
Anions	12.6	meq/L					1	A1030 E	07/29/08 00:00/jmh
Cations	14.5	meq/L					1	A1030 E	07/29/08 00:00/jmh
Solids, Total Dissolved Calculated	857	mg/L					1	A1030 E	07/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.02						1	A1030 E	07/29/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: R08050251-003
 Client Sample ID: DewBurd GW4002

Report Date: 07/30/08
 Collection Date: 05/19/08 13:00
 Date Received: 05/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	144	mg/L		5		1	A2320 B	05/22/08 10:02/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/22/08 10:02/mb
Bicarbonate as HCO3	176	mg/L		5		1	A2320 B	05/22/08 10:02/mb
Calcium	46.6	mg/L		0.5		2	E200.7	06/04/08 18:48/eli-c
Chloride	6	mg/L		1		1	E300.0	05/20/08 18:41/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	05/20/08 18:41/jmh
Magnesium	15.8	mg/L		0.5		2	E200.7	06/04/08 18:48/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/21/08 17:44/jmh
Nitrogen, Nitrate as N	0.1	mg/L		0.1		1	E300.0	05/20/08 18:41/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/20/08 18:41/jmh
Potassium	7.1	mg/L		0.5		2	E200.7	06/04/08 18:48/eli-c
Silica	3.8	mg/L		0.5		2	E200.7	06/04/08 18:48/eli-c
Sodium	211	mg/L	D	2		2	E200.7	06/04/08 18:48/eli-c
Sulfate	450	mg/L	D	3		50	E300.0	05/20/08 18:25/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1340	umhos/cm		5.0		1	A2510 B	05/23/08 16:10/tb
Oxidation-Reduction Potential	250	mV				1	A2580 B	05/23/08 00:00/kh
pH	8.02	s.u.		0.01		1	A4500-H B	05/23/08 14:48/kh
Sodium Adsorption Ratio (SAR)	6.8	unitless		0.10		1	Calculation	07/29/08 15:22/ADM
Solids, Total Dissolved TDS @ 180 C	790	mg/L		5		1	A2540 C	05/20/08 12:36/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/04/08 18:48/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/04/08 15:53/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/04/08 18:48/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/04/08 18:48/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/04/08 15:53/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/04/08 18:48/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/04/08 15:53/eli-c
Iron	ND	mg/L		0.03		2	E200.7	06/04/08 18:48/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/04/08 15:53/eli-c
Manganese	0.08	mg/L		0.01		2	E200.7	06/04/08 18:48/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/04/08 15:53/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/04/08 18:48/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/04/08 18:48/eli-c
Selenium	ND	mg/L		0.005		1	A3114 B	06/03/08 15:15/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/04/08 15:53/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: R08050251-003
 Client Sample ID: DewBurd GW4002

Report Date: 07/30/08
 Collection Date: 05/19/08 13:00
 Date Received: 05/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/04/08 15:53/eli-c
Uranium	0.0023	mg/L		0.0003		1	E200.8	06/04/08 15:53/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/04/08 18:48/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/04/08 18:48/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/07/08 21:51/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/03/08 11:22/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	127	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Alpha precision (±)	6.5	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Alpha MDC	2.6	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Beta	30.1	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Beta precision (±)	2.2	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Beta MDC	2.9	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Lead 210	-2.6	pCi/L	U			1	E909.0M	06/27/08 08:45/eli-c
Lead 210 MDC	16.0	pCi/L				1	E909.0M	06/27/08 08:45/eli-c
Lead 210 precision (±)	9.5	pCi/L				1	E909.0M	06/27/08 08:45/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	06/03/08 17:45/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008	06/03/08 17:45/eli-c
Radium 226	52.3	pCi/L				1	E903.0	06/08/08 16:38/eli-c
Radium 226 precision (±)	1.9	pCi/L				1	E903.0	06/08/08 16:38/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/04/08 10:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/04/08 10:00/eli-c
Gross Gamma	210	pCi/L		20		1	E901.1	05/28/08 05:30/eli-c
Gross Gamma precision (±)	30	pCi/L				1	E901.1	05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	1.4	pCi/L	U			1	E909.0M	07/03/08 09:50/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Lead 210 MDC	8.8	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	06/19/08 12:00/eli-c
Polonium 210 precision (±)	0.38	pCi/L				1	RMO-3008	06/19/08 12:00/eli-c
Radium 226	8.4	pCi/L				1	E903.0	06/03/08 08:59/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: R08050251-003
 Client Sample ID: DewBurd GW4002

Report Date: 07/30/08
 Collection Date: 05/19/08 13:00
 Date Received: 05/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.9	pCi/L					1	E903.0	06/03/08 08:59/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	06/03/08 08:59/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	05/29/08 15:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	05/29/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	8780	pCi/L		100			1	D5072-92	05/23/08 07:37/eli-c
Radon 222 precision (±)	143	pCi/L					1	D5072-92	05/23/08 07:37/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/06/08 17:21/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	06/06/08 17:21/eli-c
Barium	ND	mg/L		0.1			2	E200.7	05/27/08 21:27/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/09/08 14:52/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/27/08 21:27/eli-c
Cadmium	ND	mg/L		0.001			1	E200.8	06/06/08 17:21/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	05/27/08 21:27/eli-c
Copper	ND	mg/L		0.01			2	E200.7	05/27/08 21:27/eli-c
Iron	2.29	mg/L		0.03			2	E200.7	05/27/08 21:27/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/06/08 17:21/eli-c
Manganese	0.08	mg/L		0.01			2	E200.7	05/27/08 21:27/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/04/08 19:52/eli-b
Molybdenum	ND	mg/L		0.01			1	E200.8	06/06/08 17:21/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	05/27/08 21:27/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/06/08 17:21/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/06/08 17:21/eli-c
Strontium	0.9	mg/L		0.1			2	E200.7	05/27/08 21:27/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/06/08 17:21/eli-c
Uranium	0.0025	mg/L		0.0003			1	E200.8	06/06/08 17:21/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	05/27/08 21:27/eli-c
DATA QUALITY									
A/C Balance (± 5)	2.11	%					1	A1030 E	07/29/08 00:00/jmh
Anions	12.4	meq/L					1	A1030 E	07/29/08 00:00/jmh
Cations	13.0	meq/L					1	A1030 E	07/29/08 00:00/jmh
Solids, Total Dissolved Calculated	834	mg/L					1	A1030 E	07/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.940						1	A1030 E	07/29/08 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



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B		Batch: 080522A-ALK-SEL-W							
Sample ID: LCS1_080522A Alkalinity, Total as CaCO3	Laboratory Control Sample 944	mg/L	5.0	94	90	110			Run: PH_COND1-R_080522A 05/22/08 09:22
Sample ID: MBLK1_080522A Alkalinity, Total as CaCO3	Method Blank 4	mg/L	3						Run: PH_COND1-R_080522A 05/22/08 09:26
Sample ID: R08050266-003AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 292	mg/L	5.0	115	80	120			Run: PH_COND1-R_080522A 05/22/08 10:29
Sample ID: R08050266-003AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 290	mg/L	5.0	113	80	120	0.7	10	Run: PH_COND1-R_080522A 05/22/08 10:23
Method: A2510 B		Batch: 080523_1_COND-PROBE-W							
Sample ID: LCS_COND-1_080523 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080523B 05/23/08 15:55
Sample ID: LCS1-1_080523 Conductivity @ 25 C	Laboratory Control Sample 150	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080523B 05/23/08 15:56
Sample ID: LCS2-1_080523 Conductivity @ 25 C	Laboratory Control Sample 5000	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080523B 05/23/08 15:57
Sample ID: R08050321-001ADUP Conductivity @ 25 C	Sample Duplicate 1460	umhos/cm	5.0				2.8	10	Run: PH_COND2-R_080523B 05/23/08 16:24
Method: A2540 C		Batch: 080520A-SLDS-TDS-W							
Sample ID: LCS1_080520A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 210	mg/L	5.0	103	90	110			Run: BAL-4-R_080520A 05/20/08 09:30
Sample ID: MBLK1_080520A Solids, Total Dissolved TDS @ 180 C	Method Blank 4	mg/L	3						Run: BAL-4-R_080520A 05/20/08 09:32
Sample ID: R08040168-001ADUP Solids, Total Dissolved TDS @ 180 C	Sample Duplicate 440	mg/L	5.0				1.8	20	Run: BAL-4-R_080520A 05/20/08 09:33
Sample ID: R08050229-001AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 1100	mg/L	5.0	97	80	120			Run: BAL-4-R_080520A 05/20/08 10:05
Sample ID: R08050229-001AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 1100	mg/L	5.0	101	80	120	0.7	10	Run: BAL-4-R_080520A 05/20/08 10:07

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: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080603A		
Sample ID: MBLK Selenium-IV	Method Blank ND	mg/L	6E-05			Run: SUB-C102059			06/03/08 11:03
Sample ID: 288-81-1 Selenium-IV	Laboratory Control Sample 0.051	mg/L	0.0010	101	90	110			06/03/08 11:05
Sample ID: C08050602-001EMS Selenium-IV	Sample Matrix Spike 0.051	mg/L	0.0010	101	85	115			06/03/08 11:14
Sample ID: C08050602-001EMSD Selenium-IV	Sample Matrix Spike Duplicate 0.051	mg/L	0.0010	103	85	115	1.1	10	06/03/08 11:16
Method: A3114 B							Batch: C_SE3114-080603B		
Sample ID: MBLK Selenium	Method Blank ND	mg/L	6E-05			Run: SUB-C102093			06/03/08 15:00
Sample ID: 288-81-1 Selenium	Laboratory Control Sample 0.051	mg/L	0.0010	101	90	110			06/03/08 15:02
Sample ID: C08050602-001EMS Selenium	Sample Matrix Spike 0.049	mg/L	0.0010	98	85	115			06/03/08 15:06
Sample ID: C08050602-001EMSD Selenium	Sample Matrix Spike Duplicate 0.050	mg/L	0.0010	99	85	115	1.3	10	06/03/08 15:08
Method: A4500-H B							Batch: 080523_1_PH-W		
Sample ID: LCS_pH-1_080523 pH	Laboratory Control Sample 6.92	s.u.	0.010	101	98.55	101.45			05/23/08 14:21

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: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-05-21_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_080521A		05/21/08 14:30	
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27	mg/L	0.10	109	90	110			
						Run: TECHAA2-R_080521A		05/21/08 14:31	
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	104	90	110			
						Run: TECHAA2-R_080521A		05/21/08 14:32	
Sample ID: R08050241-001CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.24	mg/L	0.10	95	80	120			
						Run: TECHAA2-R_080521A		05/21/08 17:37	
Sample ID: R08050266-001CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.24	mg/L	0.10	96	80	120			
						Run: TECHAA2-R_080521A		05/21/08 17:49	
Sample ID: R08050266-001CMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.25	mg/L	0.10	101	80	120	4.9		
						Run: TECHAA2-R_080521A		05/21/08 17:50	10
Method: D5072-92							Batch: C_R101703		
Sample ID: C08050968-002IDUP Radon 222	Sample Duplicate 141	pCi/L	100						
						Run: SUB-C101703	12	05/23/08 07:37	30
Sample ID: MB-R101703 Radon 222	Method Blank 20	pCi/L							
						Run: SUB-C101703		05/23/08 07:37	U
Sample ID: LCS-R101703 Radon 222	Laboratory Control Sample 301	pCi/L	100	92	70	130			
						Run: SUB-C101703		05/23/08 07:37	

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: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18674		
Sample ID: MB-18674	Method Blank			Run: SUB-C101828			05/27/08 21:06		
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						
Nickel	ND	mg/L	0.005						
Strontium	ND	mg/L	0.0004						
Zinc	0.007	mg/L	0.001						
Sample ID: LCS3-18674	Laboratory Control Sample			Run: SUB-C101828			05/27/08 21:11		
Barium	0.53	mg/L	0.10	106	85	115			
Boron	0.51	mg/L	0.10	102	85	115			
Chromium	0.52	mg/L	0.050	104	85	115			
Copper	0.52	mg/L	0.010	104	85	115			
Iron	5.5	mg/L	0.030	111	85	115			
Manganese	2.6	mg/L	0.010	105	85	115			
Nickel	0.52	mg/L	0.050	104	85	115			
Strontium	0.54	mg/L	0.10	108	85	115			
Zinc	0.52	mg/L	0.010	103	85	115			
Sample ID: C08050971-007B MS3	Sample Matrix Spike			Run: SUB-C101828			05/27/08 23:08		
Barium	0.58	mg/L	0.10	105	70	130			
Boron	0.60	mg/L	0.10	106	70	130			
Chromium	0.54	mg/L	0.050	107	70	130			
Copper	0.53	mg/L	0.010	106	70	130			
Iron	5.6	mg/L	0.030	111	70	130			
Manganese	2.7	mg/L	0.010	106	70	130			
Nickel	0.54	mg/L	0.050	107	70	130			
Strontium	1.3	mg/L	0.10	101	70	130			
Zinc	0.53	mg/L	0.010	105	70	130			
Sample ID: C08050971-007B MSD3	Sample Matrix Spike Duplicate			Run: SUB-C101828			05/27/08 23:12		
Barium	0.58	mg/L	0.10	104	70	130	1.4	20	
Boron	0.59	mg/L	0.10	104	70	130	1.5	20	
Chromium	0.53	mg/L	0.050	106	70	130	1.3	20	
Copper	0.52	mg/L	0.010	104	70	130	1.9	20	
Iron	5.6	mg/L	0.030	111	70	130	0.2	20	
Manganese	2.6	mg/L	0.010	106	70	130	0.6	20	
Nickel	0.53	mg/L	0.050	106	70	130	1.1	20	
Strontium	1.3	mg/L	0.10	102	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: 07/30/08
Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18674
Sample ID: C08050971-007B MSD3	Sample Matrix Spike Duplicate								Run: SUB-C101828 05/27/08 23:12
Zinc	0.52	mg/L	0.010	104	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: 07/30/08
 Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.7							Batch: C_R102193			
Sample ID: MB-080604A	Method Blank		Run: SUB-C102193				06/04/08 15:38			
Silica	ND	mg/L	0.02							
Aluminum	ND	mg/L	0.004							
Barium	ND	mg/L	0.006							
Boron	0.03	mg/L	0.008							
Calcium	ND	mg/L	0.1							
Chromium	0.02	mg/L	0.002							
Iron	0.1	mg/L	0.005							
Magnesium	ND	mg/L	0.04							
Manganese	0.002	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							
Vanadium	0.02	mg/L	0.003							
Zinc	ND	mg/L	0.002							
Sample ID: LFB-080604A	Laboratory Fortified Blank		Run: SUB-C102193				06/04/08 15:42			
Silica	0.38	mg/L	0.10	94	85	125				
Aluminum	0.93	mg/L	0.10	93	85	125				
Barium	1.0	mg/L	0.10	103	85	125				
Boron	1.1	mg/L	0.10	103	85	125				
Calcium	53	mg/L	0.50	106	85	125				
Chromium	1.0	mg/L	0.050	102	85	125				
Iron	1.1	mg/L	0.030	99	85	125				
Magnesium	53	mg/L	0.50	107	85	125				
Manganese	1.0	mg/L	0.010	104	85	125				
Molybdenum	1.0	mg/L	0.10	100	85	125				
Nickel	1.0	mg/L	0.050	103	85	125				
Potassium	49	mg/L	0.50	98	85	125				
Sodium	49	mg/L	0.77	98	85	125				
Vanadium	1.1	mg/L	0.10	109	85	125				
Zinc	1.0	mg/L	0.010	104	85	125				
Sample ID: R08050251-002C	Sample Matrix Spike		Run: SUB-C102193				06/04/08 18:39			
Aluminum	2.09	mg/L	0.10	103	70	130				
Barium	2.04	mg/L	0.10	99	70	130				
Boron	2.14	mg/L	0.10	102	70	130				
Chromium	2.10	mg/L	0.050	103	70	130				
Iron	2.16	mg/L	0.030	105	70	130				
Manganese	2.23	mg/L	0.010	99	70	130				
Molybdenum	2.01	mg/L	0.10	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: 07/30/08
 Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R102193		
Sample ID: R08050251-002C	Sample Matrix Spike			Run: SUB-C102193			06/04/08 18:39		
Nickel	2.08	mg/L	0.050	102	70	130			
Vanadium	2.08	mg/L	0.10	102	70	130			
Zinc	2.10	mg/L	0.010	103	70	130			
Calcium	177	mg/L	1.0	103	70	130			
Magnesium	135	mg/L	1.0	103	70	130			
Potassium	102	mg/L	1.0	89	70	130			
Silica	4.17	mg/L	0.10		70	130			A
Sodium	286	mg/L	1.5	97	70	130			
Sample ID: R08050251-002C	Sample Matrix Spike Duplicate			Run: SUB-C102193			06/04/08 18:43		
Aluminum	2.03	mg/L	0.10	99	70	130	3.1	20	
Barium	2.11	mg/L	0.10	103	70	130	3.6	20	
Boron	2.16	mg/L	0.10	104	70	130	1.3	20	
Chromium	2.13	mg/L	0.050	104	70	130	1.6	20	
Iron	2.21	mg/L	0.030	107	70	130	2.2	20	
Manganese	2.28	mg/L	0.010	102	70	130	2.4	20	
Molybdenum	2.08	mg/L	0.10	102	70	130	3.6	20	
Nickel	2.09	mg/L	0.050	103	70	130	0.4	20	
Vanadium	2.14	mg/L	0.10	105	70	130	2.8	20	
Zinc	2.13	mg/L	0.010	104	70	130	1.3	20	
Calcium	180	mg/L	1.0	105	70	130	1.1	20	
Magnesium	136	mg/L	1.0	105	70	130	1.2	20	
Potassium	102	mg/L	1.0	89	70	130	0.4	20	
Silica	4.21	mg/L	0.10		70	130	1.1	20	A
Sodium	282	mg/L	1.5	92	70	130	1.5	20	
Method: E200.8							Batch: C_18688		
Sample ID: C08050953-001FMS	Sample Matrix Spike			Run: SUB-C102315			06/07/08 18:31		
Uranium	0.0132	mg/L	0.00030	97	70	130			
Sample ID: C08050953-001FMSD	Sample Matrix Spike Duplicate			Run: SUB-C102315			06/07/08 18:36		
Uranium	0.0133	mg/L	0.00030	98	70	130	0.8	20	
Sample ID: C08051031-005IMS4	Post Digestion Spike			Run: SUB-C102315			06/07/08 22:50		
Uranium	0.0128	mg/L	0.00030	97	70	130			
Sample ID: C08051031-005IMS4D	Post Digestion Spike Duplicate			Run: SUB-C102315			06/07/08 22:55		
Uranium	0.0129	mg/L	0.00030	98	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18768		
Sample ID: MB-18768	Method Blank		Run: SUB-C102298			06/06/08 16:00			
Antimony	ND	mg/L	0.0002						
Arsenic	0.0007	mg/L	5E-05						
Cadmium	ND	mg/L	4E-05						
Lead	ND	mg/L	5E-05						
Molybdenum	ND	mg/L	7E-05						
Selenium	0.0003	mg/L	0.0002						
Silver	0.0001	mg/L	5E-05						
Thallium	0.0001	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18768	Laboratory Control Sample		Run: SUB-C102298			06/06/08 16:07			
Antimony	0.580	mg/L	0.050	116	85	115			
Arsenic	0.562	mg/L	0.0010	112	85	115			
Cadmium	0.275	mg/L	0.010	110	85	115			
Lead	0.568	mg/L	0.050	114	85	115			
Molybdenum	0.544	mg/L	0.10	109	85	115			
Selenium	0.569	mg/L	0.0020	114	85	115			
Silver	0.0480	mg/L	0.010	96	85	115			
Thallium	0.564	mg/L	0.10	113	85	115			
Sample ID: C08051073-001MMS3	Sample Matrix Spike		Run: SUB-C102298			06/06/08 18:56			
Antimony	0.540	mg/L	0.050	108	70	130			
Arsenic	0.536	mg/L	0.0010	107	70	130			
Cadmium	0.263	mg/L	0.010	105	70	130			
Lead	0.529	mg/L	0.050	105	70	130			
Molybdenum	0.531	mg/L	0.10	103	70	130			
Selenium	0.527	mg/L	0.0020	104	70	130			
Silver	0.0433	mg/L	0.010	87	70	130			
Thallium	0.519	mg/L	0.10	104	70	130			
Uranium	0.557	mg/L	0.00032	110	70	130			
Sample ID: C08051073-001MMSD3	Sample Matrix Spike Duplicate		Run: SUB-C102298			06/06/08 19:23			
Antimony	0.539	mg/L	0.050	108	70	130	0.2	20	
Arsenic	0.535	mg/L	0.0010	106	70	130	0.2	20	
Cadmium	0.264	mg/L	0.010	106	70	130	0.4	20	
Lead	0.529	mg/L	0.050	105	70	130	0.1	20	
Molybdenum	0.529	mg/L	0.10	103	70	130	0.4	20	
Selenium	0.534	mg/L	0.0020	105	70	130	1.3	20	
Silver	0.0451	mg/L	0.010	90	70	130	4.0	20	
Thallium	0.522	mg/L	0.10	104	70	130	0.5	20	
Uranium	0.572	mg/L	0.00032	113	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: 07/30/08
Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18768
Sample ID: LCS3-18768	Laboratory Control Sample								Run: SUB-C102315 06/07/08 12:11
Arsenic	0.519	mg/L	0.0010	104	85	115			
Lead	0.509	mg/L	0.050	102	85	115			
Molybdenum	0.504	mg/L	0.10	101	85	115			
Selenium	0.519	mg/L	0.0020	104	85	115			
Uranium	0.519	mg/L	0.00032	104	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: 07/30/08
Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R102203		
Sample ID: LRB	Method Blank			Run: SUB-C102203			06/04/08 12:01		
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-C102203			06/04/08 12:07		
Arsenic	0.0502	mg/L	0.0010	100	85	115			
Cadmium	0.0502	mg/L	0.0010	100	85	115			
Copper	0.0509	mg/L	0.0010	102	85	115			
Lead	0.0503	mg/L	0.0010	101	85	115			
Mercury	0.00499	mg/L	0.0010	100	85	115			
Silver	0.0200	mg/L	0.0010	100	85	115			
Thorium 232	0.0495	mg/L	0.0010	99	85	115			
Uranium	0.0501	mg/L	0.00030	100	85	115			
Sample ID: C08050903-007GMS4	Post Digestion Spike			Run: SUB-C102203			06/04/08 15:26		
Arsenic	0.0518	mg/L	0.0010	101	70	130			
Cadmium	0.0475	mg/L	0.010	95	70	130			
Copper	0.0482	mg/L	0.010	95	70	130			
Lead	0.0498	mg/L	0.050	100	70	130			
Mercury	0.00459	mg/L	0.0010	92	70	130			
Silver	0.00192	mg/L	0.010	10	70	130			S
Thorium 232	0.0526	mg/L	0.0010	105	70	130			
Uranium	0.170	mg/L	0.00030	107	70	130			
Sample ID: C08050903-007GMSD4	Post Digestion Spike Duplicate			Run: SUB-C102203			06/04/08 15:32		
Arsenic	0.0525	mg/L	0.0010	102	70	130	1.3	20	
Cadmium	0.0480	mg/L	0.010	96	70	130	1.0	20	
Copper	0.0485	mg/L	0.010	95	70	130	0.7	20	
Lead	0.0507	mg/L	0.050	101	70	130	1.7	20	
Mercury	0.00480	mg/L	0.0010	96	70	130	4.6	20	
Silver	0.000603	mg/L	0.010	3	70	130	0.0	20	S
Thorium 232	0.0539	mg/L	0.0010	107	70	130	2.5	20	
Uranium	0.172	mg/L	0.00030	110	70	130	1.1	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: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: C_B_32786		
Sample ID: MB-32786	Method Blank					Run: SUB-C102258			06/04/08 17:57
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-32786	Laboratory Fortified Blank					Run: SUB-C102258			06/04/08 18:05
Mercury	0.0019	mg/L	0.0010	91	85	115			
Sample ID: B08052561-001DMS	Sample Matrix Spike					Run: SUB-C102258			06/04/08 18:14
Mercury	0.0019	mg/L	0.0010	94	70	130			
Sample ID: B08052561-001DMSD	Sample Matrix Spike Duplicate					Run: SUB-C102258			06/04/08 18:16
Mercury	0.0021	mg/L	0.0010	100	70	130	7.0	30	
Sample ID: B08052499-002CMS	Sample Matrix Spike					Run: SUB-C102258			06/04/08 19:08
Mercury	0.0017	mg/L	0.0010	87	70	130			
Sample ID: B08052499-002CMSD	Sample Matrix Spike Duplicate					Run: SUB-C102258			06/04/08 19:11
Mercury	0.0016	mg/L	0.0010	79	70	130	9.1	30	
Method: E245.1							Analytical Run: SUB-C102258		
Sample ID: QCS	Initial Calibration Verification Standard								06/04/08 17:50
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: 07/30/08
 Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R34857		
Sample ID: LFB0805201727-3	Laboratory Fortified Blank			Run: DIONEX_080520A			05/20/08 13:29		
Chloride	4.71	mg/L	0.50	94	90	110			
Fluoride	1.82	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.40	mg/L	0.10	96	90	110			
Sulfate	13.9	mg/L	1.0	92	90	110			
Sample ID: LFB0805201727-4	Laboratory Fortified Blank			Run: DIONEX_080520A			05/20/08 13:46		
Chloride	4.66	mg/L	0.50	93	90	110			
Fluoride	1.80	mg/L	0.10	90	90	110			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.38	mg/L	0.10	95	90	110			
Sulfate	13.8	mg/L	1.0	92	90	110			
Sample ID: R08050251-002AMS	Sample Matrix Spike			Run: DIONEX_080520A			05/20/08 17:36		
Chloride	252	mg/L	5.4	91	80	120			
Fluoride	94.6	mg/L	0.56	87	80	120			
Nitrogen, Nitrate as N	119	mg/L	1.3	95	80	120			
Nitrogen, Nitrite as N	124	mg/L	2.9	99	80	120			
Sulfate	1110	mg/L	3.4	89	80	120			
Sample ID: R08050251-002AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080520A			05/20/08 17:52		
Chloride	244	mg/L	5.4	87	80	120	3.5	10	
Fluoride	91.4	mg/L	0.56	84	80	120	3.5	10	
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120	2.8	10	
Nitrogen, Nitrite as N	120	mg/L	2.9	96	80	120	3.3	10	
Sulfate	1100	mg/L	3.4	87	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: 07/30/08
 Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0457		
Sample ID: MB-GrAB-0457	Method Blank								
Gross Alpha	0.05	pCi/L							U
Gross Beta	-1	pCi/L							U
Sample ID: Th230-GrAB-0457	Laboratory Control Sample								
Gross Alpha	140	pCi/L	100		70	130			06/11/08 08:06
Sample ID: Cs137-GrAB-0457	Laboratory Control Sample								
Gross Beta	87	pCi/L	94		70	130			06/11/08 08:06
Sample ID: C08050953-001EMS	Sample Matrix Spike								
Gross Alpha	160	pCi/L	77		70	130			06/11/08 08:06
Sample ID: C08050953-001EMSD	Sample Matrix Spike Duplicate								
Gross Alpha	150	pCi/L	75		70	130	1.7	17.5	06/11/08 08:06
Sample ID: C08050953-001EMS	Sample Matrix Spike								
Gross Beta	100	pCi/L	93		70	130			06/11/08 08:06
Sample ID: C08050953-001EMSD	Sample Matrix Spike Duplicate								
Gross Beta	99	pCi/L	91		70	130	2.5	15.6	06/11/08 08:06
Sample ID: C08050959-001EDUP	Sample Duplicate								
Gross Alpha	370	pCi/L					14	22.1	06/11/08 21:12
Gross Beta	160	pCi/L					41	27.5	R
- Duplicate RPD for Beta is outside of acceptance range. All other QC for the run is within limits. Batch is acceptable.									
Method: E901.1							Batch: C_R101877		
Sample ID: LCS-R101877	Laboratory Control Sample								
Cesium 137	1140	pCi/L	20	82	70	130			05/28/08 05:30
Sample ID: MB-R101877	Method Blank								
Gross Gamma	ND	pCi/L							U
Sample ID: C08050919-001HDUP	Sample Duplicate								
Gross Gamma	6600	pCi/L	20				0.1	30	05/28/08 05:30
Sample ID: C08051031-005HDUP	Sample Duplicate								
Gross Gamma	ND	pCi/L	20				0.0	30	05/28/08 05:30

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: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0 Batch: C_18688									
Sample ID: R08050251-0011 Radium 226	Sample Matrix Spike 77	pCi/L		98	70	130			06/03/08 08:59
Run: SUB-C102137									
Sample ID: R08050251-0011 Radium 226	Sample Matrix Spike Duplicate 72	pCi/L		91	70	130	7.4	25.5	06/03/08 08:59
Run: SUB-C102137									
Sample ID: MB-18688 Radium 226	Method Blank -0.4	pCi/L							06/03/08 10:37 U
Run: SUB-C102137									
Sample ID: LCS-18688 Radium 226	Laboratory Control Sample 15	pCi/L		99	70	130			06/03/08 10:37
Run: SUB-C102137									
Method: E903.0 Batch: C_RA226-2833									
Sample ID: C08050998-001AMS Radium 226	Sample Matrix Spike 7.9	pCi/L		98	70	130			06/07/08 20:14
Run: SUB-C102378									
Sample ID: C08050998-001AMSD Radium 226	Sample Matrix Spike Duplicate 7.8	pCi/L		97	70	130	0.7	25	06/07/08 21:45
Run: SUB-C102378									
Sample ID: MB-RA226-2833 Radium 226	Method Blank 0.1	pCi/L							06/07/08 23:15 U
Run: SUB-C102378									
Sample ID: LCS-RA226-2833 Radium 226	Laboratory Control Sample 8.4	pCi/L		104	70	130			06/08/08 11:16
Run: SUB-C102378									
Method: E903.0 Batch: C_RA226-2834									
Sample ID: C08050917-001AMS Radium 226	Sample Matrix Spike 430	pCi/L		-30	70	130			06/08/08 16:51 S
Run: SUB-C102415									
- Sample response is much larger than spike amount, therefore small variances in the sample adversely affected the recovery. The LCS and the RPD of the MS/MSD pair meets acceptance criteria; this batch is approved.									
Sample ID: C08050917-001AMSD Radium 226	Sample Matrix Spike Duplicate 430	pCi/L		53	70	130	1.5	17.2	06/08/08 16:58 S
Run: SUB-C102415									
- Sample response is much larger than spike amount, therefore small variances in the sample adversely affected the recovery. The LCS and the RPD of the MS/MSD pair meets acceptance criteria; this batch is approved.									
Sample ID: MB-RA226-2834 Radium 226	Method Blank 0.06	pCi/L							06/09/08 13:54 U
Run: SUB-C102415									
Sample ID: LCS-RA226-2834 Radium 226	Laboratory Control Sample 7.4	pCi/L		93	70	130			06/09/08 15:24
Run: SUB-C102415									

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: 07/30/08
Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_18688		
Sample ID: C08051031-001IMS Thorium 230	Sample Matrix Spike 20.6 pCi/L		0.20	88	70	130			05/29/08 15:00
Sample ID: C08051031-001IMSD Thorium 230	Sample Matrix Spike Duplicate 22.8 pCi/L		0.20	102	70	130	10	30	05/29/08 15:00
Sample ID: LCS-18688 Thorium 230	Laboratory Control Sample 51.0 pCi/L		0.20	107	70	130			05/29/08 15:00
Sample ID: MB-18688 Thorium 230	Method Blank -0.2 pCi/L								05/29/08 15:00
Method: E907.0							Batch: C_R102575		
Sample ID: LCS-R102575 Thorium 230	Laboratory Control Sample 6.60 pCi/L		0.20	94	70	130			06/04/08 10:00
Sample ID: C08051031-004HMS Thorium 230	Sample Matrix Spike 15.5 pCi/L		0.20	96	70	130			06/04/08 10:00
Sample ID: C08051031-004HMSD Thorium 230	Sample Matrix Spike Duplicate 13.9 pCi/L		0.20	85	70	130	11	30	06/04/08 10:00
Sample ID: MB-R102575 Thorium 230	Method Blank ND pCi/L								06/04/08 10:00
Method: E909.0M							Batch: C_R104386		
Sample ID: C08050730-004FMS Lead 210	Sample Matrix Spike 1000 pCi/L			172	70	130			06/27/08 08:45 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: C08050730-004FMSD Lead 210	Sample Matrix Spike Duplicate 670 pCi/L			115	70	130	40	30	06/27/08 08:45 R
Sample ID: MB-R104386 Lead 210	Method Blank -2 pCi/L								06/27/08 08:45 U
Sample ID: LCS-R104386 Lead 210	Laboratory Control Sample 110 pCi/L			98	70	130			06/27/08 08:45

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: 07/30/08
 Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R104902		
Sample ID: R08050251-0031	Sample Matrix Spike				Run: SUB-C104902			07/03/08 09:50	
Lead 210	1200	pCi/L		105	70	130			
Sample ID: R08050251-0031	Sample Matrix Spike Duplicate				Run: SUB-C104902			07/03/08 09:50	
Lead 210	1000	pCi/L		89	70	130	17	30	
Sample ID: MB-R104902	Method Blank				Run: SUB-C104902			07/03/08 09:50	
Lead 210	1	pCi/L							U
Sample ID: LCS-R104902	Laboratory Control Sample				Run: SUB-C104902			07/03/08 09:50	
Lead 210	61	pCi/L		101	70	130			
Method: RMO-3008							Batch: C_R102444		
Sample ID: C08050737-001HMS	Sample Matrix Spike				Run: SUB-C102444			06/03/08 17:45	
Polonium 210	51	pCi/L	1.0	112	70	130			
Sample ID: C08050737-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C102444			06/03/08 17:45	
Polonium 210	48	pCi/L	1.0	107	70	130	5.0	30	
Sample ID: LCS-R102444	Laboratory Control Sample				Run: SUB-C102444			06/03/08 17:45	
Polonium 210	58	pCi/L	1.0	133	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-R102444	Method Blank				Run: SUB-C102444			06/03/08 17:45	
Polonium 210	-0.1	pCi/L							U
Method: RMO-3008							Batch: C_R103071		
Sample ID: C08051031-005IMS	Sample Matrix Spike				Run: SUB-C103071			06/19/08 12:00	
Polonium 210	42	pCi/L	1.0	99	70	130			
Sample ID: C08051031-005IMS D	Sample Matrix Spike Duplicate				Run: SUB-C103071			06/19/08 12:00	
Polonium 210	52	pCi/L	1.0	124	70	130	21	30	
Sample ID: LCS-R103071	Laboratory Control Sample				Run: SUB-C103071			06/19/08 12:00	
Polonium 210	110	pCi/L	1.0	121	70	130			
Sample ID: MB-R103071	Method Blank				Run: SUB-C103071			06/19/08 12:00	
Polonium 210	0.5	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



Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name: **RESPEC**
 Report Mail Address: **RESPEC**
 Invoice Address: _____
 Project Name, PWS, Permit, Etc: **Power Test Dewey Burdock**
 Contact Name: **Cory Foreman** Phone/Fax: _____
 Email: _____
 Sample Origin: **SP**
 EPA/State Compliance: Yes No
 Sampler: (Please Print) **Eric Keanre**
 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

SEE ATTACHED
 Normal Turnaround (TAT)

R U S H

Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page

Comments: _____

Shipped by: _____
 Cooler Dtg: _____
 Receipt Temp: **6.4 °C**
 On-Demand: Yes No

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX
1 DewBurd GW 631	05/19/08	11:06	W
2 DewBurd GW 13	05/19/08	12:20	W
3 DewBurd GW 4002	05/19/08	13:00	W
4			
5			
6			
7			
8			
9			
10			

Custody Seal Y N
 Invert Y N
 Signature Y N
 Match Y N

Signature	Date/Time	Signature	Date/Time
Requisitioned by (print): Eric Keanre	Date/Time: 5/20/08 08:48	Received by Laboratory: _____	Date/Time: _____
Requisitioned by (print): _____	Date/Time: _____	Received by Laboratory: _____	Date/Time: _____
Signature: [Signature]	Date/Time: _____	Signature: _____	Date/Time: _____
Signature: [Signature]	Date/Time: _____	Signature: _____	Date/Time: _____

LABORATORY USE ONLY

202
 203
 2050261-001

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.

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08050321

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 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.
- 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: C08051031

-The LLD for Pb-210 per RG 4.14 is 1 pCi/L. The method used here can achieve an LLD (MDC) of about 5 pCi/L based on a 1.0 L sample size, and this is reported on a sample specific basis.

End of comments imported for SUBBED Workorder: C08051031



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050321-001
 Client Sample ID: DewBurd GW696

Report Date: 08/21/08
 Collection Date: 05/21/08 11:55
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	182	mg/L		5		1	A2320 B	05/27/08 09:50/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/27/08 09:50/mb
Bicarbonate as HCO3	222	mg/L		5		1	A2320 B	05/27/08 09:50/mb
Calcium	31.0	mg/L		0.5		2	E200.7	06/03/08 13:26/eli-c
Chloride	12	mg/L		1		1	E300.0	05/23/08 00:52/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	05/23/08 00:52/jmh
Magnesium	10.9	mg/L		0.5		2	E200.7	06/03/08 13:26/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	05/28/08 12:06/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/23/08 00:52/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/23/08 00:52/jmh
Potassium	9.2	mg/L		0.5		2	E200.7	06/03/08 13:26/eli-c
Silica	4.7	mg/L		0.5		2	E200.7	06/03/08 13:26/eli-c
Sodium	294	mg/L	D	2		2	E200.7	06/03/08 13:26/eli-c
Sulfate	505	mg/L	D	3		50	E300.0	05/23/08 00:35/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1420	umhos/cm		5.0		1	A2510 B	05/23/08 16:21/tb
Oxidation-Reduction Potential	120	mV				1	A2580 B	05/23/08 16:00/kh
pH	8.35	s.u.		0.01		1	A4500-H B	05/23/08 14:52/kh
Sodium Adsorption Ratio (SAR)	12	unitless		0.10		1	Calculation	08/09/08 17:06/ADM
Solids, Total Dissolved TDS @ 180 C	930	mg/L		5		1	A2540 C	05/22/08 15:35/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/03/08 13:26/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/06/08 20:58/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/03/08 13:26/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/03/08 13:26/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/06/08 20:58/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/03/08 13:26/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/06/08 20:58/eli-c
Iron	0.09	mg/L		0.03		2	E200.7	06/03/08 13:26/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/06/08 20:58/eli-c
Manganese	0.07	mg/L		0.01		2	E200.7	06/03/08 13:26/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/06/08 20:58/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/03/08 13:26/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/03/08 13:26/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	06/03/08 15:25/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 20:58/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	06/06/08 20:58/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050321-001
 Client Sample ID: DewBurd GW696

Report Date: 08/21/08
 Collection Date: 05/21/08 11:55
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/06/08 20:58/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/03/08 13:26/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/03/08 13:26/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/07/08 22:07/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/03/08 11:33/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	14.3	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Alpha precision (±)	3.0	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Alpha MDC	3.1	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta	9.0	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta precision (±)	2.4	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta MDC	3.7	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Lead 210	-2.7	pCi/L	U			1	E909.0M	06/25/08 11:25/eli-c
Lead 210 MDC	29.8	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Lead 210 precision (±)	17.7	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Polonium 210	-0.2	pCi/L	U	1.0		1	RMO-3008	06/05/08 17:45/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	06/05/08 17:45/eli-c
Radium 226	1.8	pCi/L				1	E903.0	06/09/08 17:24/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	06/09/08 17:24/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/04/08 10:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/04/08 10:00/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/28/08 05:30/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	2.1	pCi/L	U			1	E909.0M	07/03/08 09:50/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Lead 210 MDC	8.8	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	06/19/08 12:00/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008	06/19/08 12:00/eli-c
Radium 226	-0.1	pCi/L	U			1	E903.0	06/03/08 10:37/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	06/03/08 10:37/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	06/03/08 10:37/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050321-001
 Client Sample ID: DewBurd GW696

Report Date: 08/21/08
 Collection Date: 05/21/08 11:55
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	05/29/08 15:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	05/29/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	497	pCi/L		100		1	D5072-92	05/29/08 13:01/eli-c
Radon 222 precision (±)	138	pCi/L				1	D5072-92	05/29/08 13:01/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	06/06/08 18:09/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	06/06/08 18:09/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/03/08 18:16/eli-c
Beryllium	ND	mg/L	D	0.003		2	E200.7	06/03/08 18:16/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/03/08 18:16/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/06/08 18:09/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/03/08 18:16/eli-c
Copper	ND	mg/L		0.01		2	E200.7	06/03/08 18:16/eli-c
Iron	0.10	mg/L		0.03		2	E200.7	06/03/08 18:16/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/06/08 18:09/eli-c
Manganese	0.07	mg/L		0.01		2	E200.7	06/03/08 18:16/eli-c
Mercury	ND	mg/L		0.0001		1	E245.1	06/04/08 22:00/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	06/03/08 18:16/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/03/08 18:16/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	06/06/08 18:09/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 18:09/eli-c
Strontium	0.8	mg/L		0.1		2	E200.7	06/03/08 18:16/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	06/06/08 18:09/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	06/06/08 18:09/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/03/08 18:16/eli-c
DATA QUALITY								
A/C Balance (± 5)	3.21	%				1	A1030 E	08/09/08 10:00/jmh
Anions	14.5	meq/L				1	A1030 E	08/09/08 10:00/jmh
Cations	15.5	meq/L				1	A1030 E	08/09/08 10:00/jmh
Solids, Total Dissolved Calculated	984	mg/L				1	A1030 E	08/09/08 10:00/jmh
TDS Balance (0.80 - 1.20)	0.940					1	A1030 E	08/09/08 10:00/jmh

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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050321-002
 Client Sample ID: DewBurd GW680

Report Date: 08/21/08
 Collection Date: 05/21/08 12:50
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	254	mg/L		5		1	A2320 B	05/27/08 09:54/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/27/08 09:54/mb
Bicarbonate as HCO3	310	mg/L		5		1	A2320 B	05/27/08 09:54/mb
Calcium	406	mg/L		0.5		2	E200.7	06/03/08 13:43/eii-c
Chloride	12	mg/L		1		1	E300.0	05/23/08 01:25/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	05/23/08 01:25/jmh
Magnesium	133	mg/L		0.5		2	E200.7	06/03/08 13:43/eii-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/28/08 12:07/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/23/08 01:25/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/23/08 01:25/jmh
Potassium	19.5	mg/L		0.5		2	E200.7	06/03/08 13:43/eii-c
Silica	4.1	mg/L		0.5		2	E200.7	06/03/08 13:43/eii-c
Sodium	132	mg/L	D	2		2	E200.7	06/03/08 13:43/eii-c
Sulfate	1370	mg/L	D	3		50	E300.0	05/23/08 01:08/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2860	umhos/cm		5.0		1	A2510 B	05/23/08 16:25/tb
Oxidation-Reduction Potential	160	mV				1	A2580 B	05/23/08 16:00/kh
pH	7.08	s.u.		0.01		1	A4500-H B	05/23/08 14:54/kh
Sodium Adsorption Ratio (SAR)	1.5	unitless		0.10		1	Calculation	08/09/08 17:06/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	05/22/08 15:35/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/03/08 13:43/eii-c
Arsenic	0.004	mg/L		0.001		1	E200.8	06/06/08 21:05/eii-c
Barium	ND	mg/L		0.1		2	E200.7	06/03/08 13:43/eii-c
Boron	0.2	mg/L		0.1		2	E200.7	06/03/08 13:43/eii-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/06/08 21:05/eii-c
Chromium	ND	mg/L		0.05		2	E200.7	06/03/08 13:43/eii-c
Copper	ND	mg/L		0.01		1	E200.8	06/06/08 21:05/eii-c
Iron	0.21	mg/L		0.03		2	E200.7	06/03/08 13:43/eii-c
Lead	ND	mg/L		0.001		1	E200.8	06/06/08 21:05/eii-c
Manganese	0.48	mg/L		0.01		2	E200.7	06/03/08 13:43/eii-c
Mercury	ND	mg/L		0.001		1	E200.8	06/06/08 21:05/eii-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/03/08 13:43/eii-c
Nickel	ND	mg/L		0.05		2	E200.7	06/03/08 13:43/eii-c
Selenium	ND	mg/L		0.001		1	A3114 B	06/03/08 15:27/eii-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 21:05/eii-c
Thorium 232	ND	mg/L		0.005		1	E200.8	06/06/08 21:05/eii-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050321-002
 Client Sample ID: DewBurd GW680

Report Date: 08/21/08
 Collection Date: 05/21/08 12:50
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0280	mg/L		0.0003		1	E200.8	06/06/08 21:05/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/03/08 13:43/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/03/08 13:43/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/07/08 22:13/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/03/08 11:35/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	4500	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Alpha precision (±)	64.8	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Alpha MDC	6.9	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta	1530	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta precision (±)	18.0	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta MDC	8.7	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Lead 210	61.8	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Lead 210 MDC	35.7	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Lead 210 precision (±)	22.9	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Polonium 210	1.5	pCi/L		1.0		1	RMO-3008	06/05/08 17:45/eli-c
Polonium 210 precision (±)	1.5	pCi/L				1	RMO-3008	06/05/08 17:45/eli-c
Radium 226	1240	pCi/L				1	E903.0	06/09/08 17:24/eli-c
Radium 226 precision (±)	6.1	pCi/L				1	E903.0	06/09/08 17:24/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	06/04/08 10:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/04/08 10:00/eli-c
Gross Gamma	21000	pCi/L		20		1	E901.1	05/28/08 05:30/eli-c
Gross Gamma precision (±)	250	pCi/L				1	E901.1	05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	6.8	pCi/L	U			1	E909.0M	07/03/08 09:50/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Lead 210 MDC	8.8	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Polonium 210	1.1	pCi/L		1.0		1	RMO-3008	06/19/08 12:00/eli-c
Polonium 210 precision (±)	0.86	pCi/L				1	RMO-3008	06/19/08 12:00/eli-c
Radium 226	1.0	pCi/L				1	E903.0	06/03/08 10:37/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	06/03/08 10:37/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	06/03/08 10:37/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050321-002
 Client Sample ID: DewBurd GW680

Report Date: 08/21/08
 Collection Date: 05/21/08 12:50
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	05/29/08 15:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	05/29/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	359000	pCi/L		100		1	D5072-92	05/29/08 13:01/eli-c
Radon 222 precision (±)	1160	pCi/L				1	D5072-92	05/29/08 13:01/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	06/06/08 18:16/eli-c
Arsenic	0.004	mg/L		0.001		1	E200.8	06/06/08 18:16/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/03/08 18:24/eli-c
Beryllium	ND	mg/L	D	0.003		2	E200.7	06/03/08 18:24/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	06/03/08 18:24/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/06/08 18:16/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/03/08 18:24/eli-c
Copper	ND	mg/L		0.01		2	E200.7	06/03/08 18:24/eli-c
Iron	0.35	mg/L		0.03		2	E200.7	06/03/08 18:24/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/06/08 18:16/eli-c
Manganese	0.52	mg/L		0.01		2	E200.7	06/03/08 18:24/eli-c
Mercury	ND	mg/L		0.0001		1	E245.1	06/04/08 22:07/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	06/03/08 18:24/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/03/08 18:24/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	06/06/08 18:16/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 18:16/eli-c
Strontium	8.2	mg/L		0.1		2	E200.7	06/03/08 18:24/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	06/06/08 18:16/eli-c
Uranium	0.0273	mg/L		0.0003		1	E200.8	06/06/08 18:16/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	06/03/08 18:24/eli-c
DATA QUALITY								
A/C Balance (± 5)	5.04	%				1	A1030 E	08/09/08 10:00/jmh
Anions	33.9	meq/L				1	A1030 E	08/09/08 10:00/jmh
Cations	37.5	meq/L				1	A1030 E	08/09/08 10:00/jmh
Solids, Total Dissolved Calculated	2240	mg/L				1	A1030 E	08/09/08 10:00/jmh
TDS Balance (0.80 - 1.20)	1.04					1	A1030 E	08/09/08 10:00/jmh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 6 of 15
 QCL - Quality control limit. ND - Not detected at the reporting limit
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050321-003
 Client Sample ID: DewBurd GW695

Report Date: 08/21/08
 Collection Date: 05/21/08 14:45
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	180	mg/L		5		1	A2320 B	05/27/08 10:01/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/27/08 10:01/mb
Bicarbonate as HCO3	219	mg/L		5		1	A2320 B	05/27/08 10:01/mb
Calcium	52.1	mg/L		0.5		2	E200.7	06/03/08 13:51/eli-c
Chloride	11	mg/L		1		1	E300.0	05/23/08 02:30/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	05/23/08 02:30/jmh
Magnesium	19.4	mg/L		0.5		2	E200.7	06/03/08 13:51/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	05/28/08 12:11/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/23/08 02:30/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/23/08 02:30/jmh
Potassium	8.8	mg/L		0.5		2	E200.7	06/03/08 13:51/eli-c
Silica	4.4	mg/L		0.5		2	E200.7	06/03/08 13:51/eli-c
Sodium	254	mg/L	D	2		2	E200.7	06/03/08 13:51/eli-c
Sulfate	530	mg/L	D	3		50	E300.0	05/23/08 01:41/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1560	umhos/cm		5.0		1	A2510 B	05/23/08 16:26/tb
Oxidation-Reduction Potential	190	mV				1	A2580 B	05/23/08 16:00/kh
pH	7.91	s.u.		0.01		1	A4500-H B	05/23/08 14:55/kh
Sodium Adsorption Ratio (SAR)	7.6	unitless		0.10		1	Calculation	08/09/08 17:06/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5		1	A2540 C	05/22/08 15:36/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/03/08 13:51/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	06/06/08 21:12/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/03/08 13:51/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/03/08 13:51/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/06/08 21:12/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/03/08 13:51/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/06/08 21:12/eli-c
Iron	ND	mg/L		0.03		2	E200.7	06/03/08 13:51/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/06/08 21:12/eli-c
Manganese	0.09	mg/L		0.01		2	E200.7	06/03/08 13:51/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/06/08 21:12/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/03/08 13:51/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/03/08 13:51/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	06/03/08 15:29/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 21:12/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	06/06/08 21:12/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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050321-003
 Client Sample ID: DewBurd GW695

Report Date: 08/21/08
 Collection Date: 05/21/08 14:45
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0029	mg/L		0.0003		1 E200.8	06/06/08 21:12/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	06/03/08 13:51/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	06/03/08 13:51/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	06/07/08 22:34/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	06/03/08 11:37/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	25.6	pCi/L				1 E900.0	06/08/08 04:27/eli-c
Gross Alpha precision (±)	3.6	pCi/L				1 E900.0	06/08/08 04:27/eli-c
Gross Alpha MDC	3.0	pCi/L				1 E900.0	06/08/08 04:27/eli-c
Gross Beta	8.0	pCi/L				1 E900.0	06/08/08 04:27/eli-c
Gross Beta precision (±)	2.4	pCi/L				1 E900.0	06/08/08 04:27/eli-c
Gross Beta MDC	3.7	pCi/L				1 E900.0	06/08/08 04:27/eli-c
Lead 210	3.1	pCi/L	U			1 E909.0M	06/25/08 11:25/eli-c
Lead 210 MDC	30.0	pCi/L				1 E909.0M	06/25/08 11:25/eli-c
Lead 210 precision (±)	18.0	pCi/L				1 E909.0M	06/25/08 11:25/eli-c
Polonium 210	-0.3	pCi/L	U	1.0		1 RMO-3008	06/05/08 17:45/eli-c
Polonium 210 precision (±)	0.10	pCi/L				1 RMO-3008	06/05/08 17:45/eli-c
Radium 226	3.7	pCi/L				1 E903.0	06/09/08 17:24/eli-c
Radium 226 precision (±)	0.4	pCi/L				1 E903.0	06/09/08 17:24/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	06/04/08 10:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	06/04/08 10:00/eli-c
Gross Gamma	140	pCi/L		20		1 E901.1	05/28/08 05:30/eli-c
Gross Gamma precision (±)	29	pCi/L				1 E901.1	05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-0.7	pCi/L	U			1 E909.0M	07/03/08 09:50/eli-c
Lead 210 precision (±)	5.2	pCi/L				1 E909.0M	07/03/08 09:50/eli-c
Lead 210 MDC	8.8	pCi/L				1 E909.0M	07/03/08 09:50/eli-c
Polonium 210	-0.2	pCi/L	U	1.0		1 RMO-3008	06/19/08 12:00/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1 RMO-3008	06/19/08 12:00/eli-c
Radium 226	-0.2	pCi/L	U			1 E903.0	06/03/08 10:37/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	06/03/08 10:37/eli-c
Radium 226 MDC	0.5	pCi/L				1 E903.0	06/03/08 10:37/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050321-003
 Client Sample ID: DewBurd GW695

Report Date: 08/21/08
 Collection Date: 05/21/08 14:45
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	05/29/08 15:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	05/29/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	2090	pCi/L		100		1	D5072-92	05/29/08 13:01/eli-c
Radon 222 precision (±)	155	pCi/L				1	D5072-92	05/29/08 13:01/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	06/06/08 18:22/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	06/06/08 18:22/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/03/08 18:29/eli-c
Beryllium	ND	mg/L	D	0.003		2	E200.7	06/03/08 18:29/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/03/08 18:29/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/06/08 18:22/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/03/08 18:29/eli-c
Copper	ND	mg/L		0.01		2	E200.7	06/03/08 18:29/eli-c
Cobalt	0.12	mg/L		0.03		2	E200.7	06/03/08 18:29/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/06/08 18:22/eli-c
Manganese	0.09	mg/L		0.01		2	E200.7	06/03/08 18:29/eli-c
Mercury	ND	mg/L		0.0001		1	E245.1	06/04/08 22:09/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	06/03/08 18:29/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/03/08 18:29/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	06/06/08 18:22/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 18:22/eli-c
Strontium	1.0	mg/L		0.1		2	E200.7	06/03/08 18:29/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	06/06/08 18:22/eli-c
Uranium	0.0029	mg/L		0.0003		1	E200.8	06/06/08 18:22/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/03/08 18:29/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.68	%				1	A1030 E	08/09/08 10:00/jmh
Anions	15.0	meq/L				1	A1030 E	08/09/08 10:00/jmh
Cations	15.5	meq/L				1	A1030 E	08/09/08 10:00/jmh
Solids, Total Dissolved Calculated	996	mg/L				1	A1030 E	08/09/08 10:00/jmh
TDS Balance (0.80 - 1.20)	0.920					1	A1030 E	08/09/08 10:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050321-004
 Client Sample ID: DewBurd GW694

Report Date: 08/21/08
 Collection Date: 05/21/08 15:54
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	192	mg/L		5			1	A2320 B	05/27/08 10:05/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	05/27/08 10:05/mb
Bicarbonate as HCO3	234	mg/L		5			1	A2320 B	05/27/08 10:05/mb
Calcium	103	mg/L		0.5			2	E200.7	06/03/08 13:55/eli-c
Chloride	9	mg/L		1			1	E300.0	05/23/08 03:36/jmh
Fluoride	0.3	mg/L		0.1			1	E300.0	05/23/08 03:36/jmh
Magnesium	38.6	mg/L		0.5			2	E200.7	06/03/08 13:55/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	05/28/08 12:14/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	05/23/08 03:36/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	05/23/08 03:36/jmh
Potassium	13.1	mg/L		0.5			2	E200.7	06/03/08 13:55/eli-c
Silica	4.7	mg/L		0.5			2	E200.7	06/03/08 13:55/eli-c
Sodium	180	mg/L	D	2			2	E200.7	06/03/08 13:55/eli-c
Sulfate	493	mg/L	D	3			50	E300.0	05/23/08 02:47/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1550	umhos/cm		5.0			1	A2510 B	05/23/08 16:27/tb
Oxidation-Reduction Potential	210	mV					1	A2580 B	05/23/08 16:00/kh
pH	7.54	s.u.		0.01			1	A4500-H B	05/23/08 14:56/kh
Sodium Adsorption Ratio (SAR)	3.8	unitless		0.10			1	Calculation	08/09/08 17:06/ADM
Solids, Total Dissolved TDS @ 180 C	970	mg/L		5			1	A2540 C	05/22/08 15:37/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	06/03/08 13:55/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	06/06/08 21:18/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/03/08 13:55/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/03/08 13:55/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/06/08 21:18/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/03/08 13:55/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/06/08 21:18/eli-c
Iron	ND	mg/L		0.03			2	E200.7	06/03/08 13:55/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/06/08 21:18/eli-c
Manganese	0.16	mg/L		0.01			2	E200.7	06/03/08 13:55/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	06/06/08 21:18/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	06/03/08 13:55/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/03/08 13:55/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	06/03/08 15:31/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/06/08 21:18/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	06/06/08 21:18/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: R08050321-004
 Client Sample ID: DewBurd GW694

Report Date: 08/21/08
 Collection Date: 05/21/08 15:54
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0006	mg/L		0.0003		1	E200.8	06/06/08 21:18/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/03/08 13:55/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/03/08 13:55/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/07/08 22:39/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/03/08 11:39/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	10.6	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Alpha MDC	3.2	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta	12.5	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta MDC	3.8	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Lead 210	-2.3	pCi/L	U			1	E909.0M	06/25/08 11:25/eli-c
Lead 210 MDC	29.0	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Lead 210 precision (±)	17.2	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Polonium 210	0.6	pCi/L	U	1.0		1	RMO-3008	06/05/08 17:45/eli-c
Polonium 210 precision (±)	0.90	pCi/L				1	RMO-3008	06/05/08 17:45/eli-c
Radium 226	1.9	pCi/L				1	E903.0	06/09/08 17:24/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	06/09/08 17:24/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/04/08 10:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/04/08 10:00/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	1.4	pCi/L	U			1	E909.0M	07/03/08 09:50/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Lead 210 MDC	8.8	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008	06/19/08 12:00/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008	06/19/08 12:00/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	06/03/08 10:37/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	06/03/08 10:37/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	06/03/08 10:37/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	05/29/08 15:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050321-004
 Client Sample ID: DewBurd GW694

Report Date: 08/21/08
 Collection Date: 05/21/08 15:54
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	05/29/08 15:00/eii-c
RADIONUCLIDES - TOTAL								
Radon 222	619	pCi/L		100		1	D5072-92	05/29/08 13:01/eii-c
Radon 222 precision (±)	135	pCi/L				1	D5072-92	05/29/08 13:01/eii-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	06/06/08 18:29/eii-c
Arsenic	0.004	mg/L		0.001		1	E200.8	06/06/08 18:29/eii-c
Barium	ND	mg/L		0.1		2	E200.7	06/03/08 18:33/eii-c
Beryllium	ND	mg/L	D	0.003		2	E200.7	06/03/08 18:33/eii-c
Boron	ND	mg/L		0.1		2	E200.7	06/03/08 18:33/eii-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/06/08 18:29/eii-c
Chromium	ND	mg/L		0.05		2	E200.7	06/03/08 18:33/eii-c
Copper	ND	mg/L		0.01		2	E200.7	06/03/08 18:33/eii-c
Cobalt	0.16	mg/L		0.03		2	E200.7	06/03/08 18:33/eii-c
Lead	ND	mg/L		0.001		1	E200.8	06/06/08 18:29/eii-c
Manganese	0.17	mg/L		0.01		2	E200.7	06/03/08 18:33/eii-c
Mercury	ND	mg/L		0.0001		1	E245.1	06/04/08 22:16/eii-b
Molybdenum	ND	mg/L		0.1		2	E200.7	06/03/08 18:33/eii-c
Nickel	ND	mg/L		0.05		2	E200.7	06/03/08 18:33/eii-c
Selenium	ND	mg/L		0.001		1	E200.8	06/06/08 18:29/eii-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 18:29/eii-c
Strontium	3.0	mg/L		0.1		2	E200.7	06/03/08 18:33/eii-c
Thallium	ND	mg/L		0.001		1	E200.8	06/06/08 18:29/eii-c
Uranium	0.0006	mg/L		0.0003		1	E200.8	06/06/08 18:29/eii-c
Zinc	ND	mg/L		0.01		2	E200.7	06/03/08 18:33/eii-c
DATA QUALITY								
A/C Balance (± 5)	6.92	%				1	A1030 E	08/09/08 10:00/jmh
Anions	14.4	meq/L				1	A1030 E	08/09/08 10:00/jmh
Cations	16.5	meq/L				1	A1030 E	08/09/08 10:00/jmh
Solids, Total Dissolved Calculated	965	mg/L				1	A1030 E	08/09/08 10:00/jmh
TDS Balance (0.80 - 1.20)	1.01					1	A1030 E	08/09/08 10:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: R08050321-005
 Client Sample ID: DewBurd GW697

Report Date: 08/21/08
 Collection Date: 05/21/08 16:44
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	168	mg/L		5		1	A2320 B	05/27/08 10:07/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/27/08 10:07/mb
Bicarbonate as HCO3	205	mg/L		5		1	A2320 B	05/27/08 10:07/mb
Calcium	52.8	mg/L		0.5		2	E200.7	06/03/08 13:59/eli-c
Chloride	8	mg/L		1		1	E300.0	05/23/08 04:09/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	05/23/08 04:09/jmh
Magnesium	18.0	mg/L		0.5		2	E200.7	06/03/08 13:59/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	05/28/08 12:16/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/23/08 04:09/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/23/08 04:09/jmh
Potassium	8.5	mg/L		0.5		2	E200.7	06/03/08 13:59/eli-c
Silica	4.6	mg/L		0.5		2	E200.7	06/03/08 13:59/eli-c
Sodium	216	mg/L	D	2		2	E200.7	06/03/08 13:59/eli-c
Sulfate	456	mg/L	D	3		50	E300.0	05/23/08 03:52/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1380	umhos/cm		5.0		1	A2510 B	05/23/08 16:28/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	05/23/08 16:00/kh
pH	7.90	s.u.		0.01		1	A4500-H B	05/23/08 14:57/kh
Sodium Adsorption Ratio (SAR)	6.5	unitless		0.10		1	Calculation	08/09/08 17:06/ADM
Solids, Total Dissolved TDS @ 180 C	790	mg/L		5		1	A2540 C	05/22/08 15:37/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/03/08 13:59/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	06/06/08 21:25/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/03/08 13:59/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/03/08 13:59/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/06/08 21:25/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/03/08 13:59/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/06/08 21:25/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	06/03/08 13:59/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/06/08 21:25/eli-c
Manganese	0.06	mg/L		0.01		2	E200.7	06/03/08 13:59/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/06/08 21:25/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/03/08 13:59/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/03/08 13:59/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	06/03/08 15:34/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 21:25/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	06/06/08 21:25/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050321-005
 Client Sample ID: DewBurd GW697

Report Date: 08/21/08
 Collection Date: 05/21/08 16:44
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/06/08 21:25/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/03/08 13:59/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/03/08 13:59/eli-c
METALS - SUSPENDED								
Uranium	0.0007	mg/L		0.0003		1	E200.8	06/07/08 22:45/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/03/08 11:41/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	4.1	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Alpha precision (±)	2.0	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Alpha MDC	2.7	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta	5.4	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta precision (±)	2.0	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta MDC	3.3	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Lead 210	-4.3	pCi/L	U			1	E909.0M	06/25/08 11:25/eli-c
Lead 210 MDC	28.2	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Lead 210 precision (±)	16.7	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	06/05/08 17:45/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	06/05/08 17:45/eli-c
Radium 226	1.1	pCi/L				1	E903.0	06/09/08 17:24/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	06/09/08 17:24/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/04/08 10:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/04/08 10:00/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.0	pCi/L	U			1	E909.0M	07/03/08 09:50/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Lead 210 MDC	8.8	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Polonium 210	1.2	pCi/L		1.0		1	RMO-3008	06/19/08 12:00/eli-c
Polonium 210 precision (±)	0.81	pCi/L				1	RMO-3008	06/19/08 12:00/eli-c
Radium 226	3.8	pCi/L				1	E903.0	06/03/08 10:37/eli-c
Radium 226 precision (±)	0.7	pCi/L				1	E903.0	06/03/08 10:37/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	06/03/08 10:37/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	05/29/08 15:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050321-005
 Client Sample ID: DewBurd GW697

Report Date: 08/21/08
 Collection Date: 05/21/08 16:44
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	05/29/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	570	pCi/L		100		1	D5072-92	05/29/08 13:01/eli-c
Radon 222 precision (±)	134	pCi/L				1	D5072-92	05/29/08 13:01/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	06/06/08 18:36/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	06/06/08 18:36/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/03/08 18:49/eli-c
Beryllium	ND	mg/L	D	0.003		2	E200.7	06/03/08 18:49/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/03/08 18:49/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/06/08 18:36/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/03/08 18:49/eli-c
Copper	ND	mg/L		0.01		2	E200.7	06/03/08 18:49/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	06/03/08 18:49/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/06/08 18:36/eli-c
Manganese	0.06	mg/L		0.01		2	E200.7	06/03/08 18:49/eli-c
Mercury	ND	mg/L		0.0001		1	E245.1	06/04/08 22:19/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	06/03/08 18:49/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/03/08 18:49/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	06/06/08 18:36/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 18:36/eli-c
Strontium	1.2	mg/L		0.1		2	E200.7	06/03/08 18:49/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	06/06/08 18:36/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	06/06/08 18:36/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	06/03/08 18:49/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.35	%				1	A1030 E	08/09/08 10:00/jmh
Anions	13.1	meq/L				1	A1030 E	08/09/08 10:00/jmh
Cations	13.7	meq/L				1	A1030 E	08/09/08 10:00/jmh
Solids, Total Dissolved Calculated	873	mg/L				1	A1030 E	08/09/08 10:00/jmh
TDS Balance (0.80 - 1.20)	0.910					1	A1030 E	08/09/08 10:00/jmh

Report Defaults: 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.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: 080527A-ALK-SEL-W
Sample ID: LCS1_080527A	Laboratory Control Sample								Run: PH_COND1-R_080527A 05/27/08 09:44
Alkalinity, Total as CaCO3	968	mg/L	5.0	97	90	110			
Sample ID: MBLK1_080527A	Method Blank								Run: PH_COND1-R_080527A 05/27/08 09:46
Alkalinity, Total as CaCO3	ND	mg/L	3						
Method: A2510 B									Batch: 080523_1_COND-PROBE-W
Sample ID: LCS_COND-1_080523	Laboratory Control Sample								Run: PH_COND2-R_080523B 05/23/08 15:55
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: LCS1-1_080523	Laboratory Control Sample								Run: PH_COND2-R_080523B 05/23/08 15:56
Conductivity @ 25 C	150	umhos/cm	5.0	100	90	110			
Sample ID: LCS2-1_080523	Laboratory Control Sample								Run: PH_COND2-R_080523B 05/23/08 15:57
Conductivity @ 25 C	5000	umhos/cm	5.0	100	90	110			
Sample ID: R08050321-001ADUP	Sample Duplicate								Run: PH_COND2-R_080523B 05/23/08 16:24
Conductivity @ 25 C	1460	umhos/cm	5.0				2.8	10	
Method: A2540 C									Batch: 080522A-SLDS-TDS-W
Sample ID: LCS1_080522A	Laboratory Control Sample								Run: BAL-4-R_080523A 05/22/08 15:25
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	107	90	110			
Sample ID: MBLK1_080522A	Method Blank								Run: BAL-4-R_080523A 05/22/08 15:26
Solids, Total Dissolved TDS @ 180 C	4	mg/L	3						
Sample ID: R08050307-001BMS	Sample Matrix Spike								Run: BAL-4-R_080523A 05/23/08 00:00
Solids, Total Dissolved TDS @ 180 C	2700	mg/L	5.0	120	80	120			
Sample ID: R08050307-001BMSD	Sample Matrix Spike Duplicate								Run: BAL-4-R_080523A 05/23/08 00:00
Solids, Total Dissolved TDS @ 180 C	2700	mg/L	5.0	119	80	120	0.1	10	
Sample ID: R08050321-005AMS	Sample Matrix Spike								Run: BAL-4-R_080523A 05/22/08 15:38
Solids, Total Dissolved TDS @ 180 C	1000	mg/L	5.0	113	80	120			
Sample ID: R08050321-005AMSD	Sample Matrix Spike Duplicate								Run: BAL-4-R_080523A 05/22/08 15:38
Solids, Total Dissolved TDS @ 180 C	1000	mg/L	5.0	109	80	120	0.8	10	

Qualifiers:

- - 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: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080603A		
Sample ID: MBLK Selenium-IV	Method Blank ND	mg/L	6E-05						Run: SUB-C102059 06/03/08 11:03
Sample ID: 288-81-1 Selenium-IV	Laboratory Control Sample 0.051	mg/L	0.0010	101	90	110			Run: SUB-C102059 06/03/08 11:05
Sample ID: R08050321-005E Selenium-IV	Sample Matrix Spike 0.046	mg/L	0.0010	92	85	115			Run: SUB-C102059 06/03/08 11:43
Sample ID: R08050321-005E Selenium-IV	Sample Matrix Spike Duplicate 0.047	mg/L	0.0010	94	85	115	1.7	10	Run: SUB-C102059 06/03/08 11:45
Method: A3114 B							Batch: C_SE3114-080603B		
Sample ID: MBLK Selenium	Method Blank ND	mg/L	6E-05						Run: SUB-C102093 06/03/08 15:00
Sample ID: 288-81-1 Selenium	Laboratory Control Sample 0.051	mg/L	0.0010	101	90	110			Run: SUB-C102093 06/03/08 15:02
Sample ID: R08050321-005E Selenium	Sample Matrix Spike 0.045	mg/L	0.0010	91	85	115			Run: SUB-C102093 06/03/08 15:36
Sample ID: R08050321-005E Selenium	Sample Matrix Spike Duplicate 0.045	mg/L	0.0010	90	85	115	0.3	10	Run: SUB-C102093 06/03/08 15:38
Method: A4500-H B							Batch: 080523_1_PH-W		
Sample ID: LCS_pH-1_080523 pH	Laboratory Control Sample 6.92	s.u.	0.010	101	98.55	101.45			Run: PH_COND2-R_080523A 05/23/08 14:21
Sample ID: R08050321-001ADUP pH	Sample Duplicate 8.34	s.u.	0.010				0.1	1.25	Run: PH_COND2-R_080523A 05/23/08 14:53

Qualifiers:

L - 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: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-05-28_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						Run: TECHAA2-R_080528A 05/28/08 10:35
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27	mg/L	0.10	107	90	110			Run: TECHAA2-R_080528A 05/28/08 10:36
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.25	mg/L	0.10	100	90	110			Run: TECHAA2-R_080528A 05/28/08 10:38
Sample ID: R08050307-001CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.23	mg/L	0.10	90	80	120			Run: TECHAA2-R_080528A 05/28/08 12:00
Sample ID: R08050307-001CMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.24	mg/L	0.10	96	80	120	5.6	10	Run: TECHAA2-R_080528A 05/28/08 12:02
Sample ID: R08050321-003BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.39	mg/L	0.10	98	80	120			Run: TECHAA2-R_080528A 05/28/08 12:12
Sample ID: R08050321-003BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.40	mg/L	0.10	98	80	120	0.3	10	Run: TECHAA2-R_080528A 05/28/08 12:13
Method: D5072-92							Batch: C_R101920		
Sample ID: R08050321-005G Radon 222	Sample Duplicate 525	pCi/L	100				8.2	30	Run: SUB-C101920 05/29/08 13:01
Sample ID: MB-R101920 Radon 222	Method Blank 20	pCi/L						U	Run: SUB-C101920 05/29/08 13:01
Sample ID: LCS-R101920 Radon 222	Laboratory Control Sample 301	pCi/L	100	93	70	130			Run: SUB-C101920 05/29/08 13:01

Qualifiers:

L - Analyte reporting limit.
 U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									
Batch: C_18693									
Sample ID: MB-18693	Method Blank			Run: SUB-C102127			06/03/08 18:04		
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						
Strontium	ND	mg/L	0.0004						
Zinc	0.006	mg/L	0.001						
Sample ID: LCS3-18693	Laboratory Control Sample			Run: SUB-C102127			06/03/08 18:08		
Barium	0.526	mg/L	0.10	105	85	115			
Boron	0.548	mg/L	0.10	110	85	115			
Chromium	0.532	mg/L	0.050	106	85	115			
Copper	0.534	mg/L	0.010	107	85	115			
Iron	5.61	mg/L	0.030	112	85	115			
Manganese	2.67	mg/L	0.010	107	85	115			
Molybdenum	0.529	mg/L	0.10	106	85	115			
Nickel	0.525	mg/L	0.050	105	85	115			
Strontium	0.545	mg/L	0.10	109	85	115			
Zinc	0.539	mg/L	0.010	107	85	115			
Sample ID: R08050321-005D	Sample Matrix Spike			Run: SUB-C102127			06/03/08 18:53		
Barium	0.559	mg/L	0.10	107	70	130			
Boron	0.602	mg/L	0.10	107	70	130			
Chromium	0.533	mg/L	0.050	107	70	130			
Copper	0.547	mg/L	0.010	109	70	130			
Iron	5.53	mg/L	0.030	110	70	130			
Manganese	2.78	mg/L	0.010	109	70	130			
Molybdenum	0.536	mg/L	0.10	107	70	130			
Nickel	0.542	mg/L	0.050	108	70	130			
Strontium	1.74	mg/L	0.10	100	70	130			
Zinc	0.544	mg/L	0.010	107	70	130			
Sample ID: R08050321-005D	Sample Matrix Spike Duplicate			Run: SUB-C102127			06/03/08 18:57		
Barium	0.551	mg/L	0.10	105	70	130	1.5	20	
Boron	0.614	mg/L	0.10	109	70	130	2.0	20	
Chromium	0.531	mg/L	0.050	106	70	130	0.3	20	
Copper	0.539	mg/L	0.010	108	70	130	1.5	20	
Iron	5.50	mg/L	0.030	109	70	130	0.6	20	
Manganese	2.75	mg/L	0.010	107	70	130	1.1	20	
Molybdenum	0.539	mg/L	0.10	108	70	130	0.7	20	

Qualifiers:

- 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: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									
Batch: C_18693									
Sample ID: R08050321-005D	Sample Matrix Spike Duplicate			Run: SUB-C102127			06/03/08 18:57		
Nickel	0.541	mg/L	0.050	108	70	130	0.2	20	
Strontium	1.72	mg/L	0.10	96	70	130	1.2	20	
Zinc	0.544	mg/L	0.010	107	70	130	0.1	20	
Sample ID: R08050321-005D	Sample Matrix Spike			Run: SUB-C102628			06/12/08 21:43		
Barium	0.536	mg/L	0.10	102	70	130			
Boron	0.573	mg/L	0.10	105	70	130			
Chromium	0.518	mg/L	0.050	104	70	130			
Copper	0.521	mg/L	0.010	104	70	130			
Iron	5.55	mg/L	0.030	110	70	130			
Manganese	2.65	mg/L	0.010	104	70	130			
Molybdenum	0.516	mg/L	0.10	103	70	130			
Nickel	0.507	mg/L	0.050	101	70	130			
Strontium	1.67	mg/L	0.10	99	70	130			
Zinc	0.523	mg/L	0.010	104	70	130			
Sample ID: R08050321-005D	Sample Matrix Spike Duplicate			Run: SUB-C102628			06/12/08 21:47		
Barium	0.550	mg/L	0.10	105	70	130	2.6	20	
Boron	0.584	mg/L	0.10	107	70	130	1.9	20	
Chromium	0.526	mg/L	0.050	105	70	130	1.5	20	
Copper	0.529	mg/L	0.010	106	70	130	1.5	20	
Iron	5.49	mg/L	0.030	108	70	130	1.1	20	
Manganese	2.69	mg/L	0.010	105	70	130	1.6	20	
Molybdenum	0.528	mg/L	0.10	106	70	130	2.3	20	
Nickel	0.517	mg/L	0.050	103	70	130	2.0	20	
Strontium	1.70	mg/L	0.10	106	70	130	2.0	20	
Zinc	0.533	mg/L	0.010	106	70	130	1.9	20	

Qualifiers:

L - 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: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R102127		
Sample ID: MB-080603A	Method Blank		Run: SUB-C102127			06/03/08 12:29			
Silica	ND	mg/L		0.02					
Aluminum	ND	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	ND	mg/L		0.003					
Nickel	ND	mg/L		0.004					
Potassium	ND	mg/L		0.02					
Sodium	ND	mg/L		0.8					
Vanadium	0.03	mg/L		0.003					
Zinc	ND	mg/L		0.002					
Sample ID: LFB-080603A	Laboratory Fortified Blank		Run: SUB-C102127			06/03/08 12:33			
Silica	0.38	mg/L	0.10	94	85	125			
Aluminum	0.94	mg/L	0.10	94	85	125			
Barium	0.99	mg/L	0.10	99	85	125			
Boron	1.0	mg/L	0.10	99	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	109	85	125			
Magnesium	53	mg/L	0.50	106	85	125			
Manganese	1.0	mg/L	0.010	101	85	125			
Molybdenum	0.97	mg/L	0.10	97	85	125			
Nickel	1.0	mg/L	0.050	101	85	125			
Potassium	46	mg/L	0.50	91	85	125			
Sodium	49	mg/L	0.77	99	85	125			
Vanadium	1.1	mg/L	0.10	107	85	125			
Zinc	1.0	mg/L	0.010	102	85	125			
Sample ID: C08051031-001CMS2	Sample Matrix Spike		Run: SUB-C102127			06/03/08 13:35			
Aluminum	1.98	mg/L	0.10	97	70	130			
Barium	2.02	mg/L	0.10	99	70	130			
Boron	2.11	mg/L	0.10	99	70	130			
Chromium	2.06	mg/L	0.050	101	70	130			
Iron	2.22	mg/L	0.030	105	70	130			
Manganese	2.12	mg/L	0.010	101	70	130			
Molybdenum	1.96	mg/L	0.10	96	70	130			
Nickel	2.04	mg/L	0.050	100	70	130			
Vanadium	2.16	mg/L	0.10	103	70	130			

Qualifiers:

.L - 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: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R102127		
Sample ID: C08051031-001CM S2	Sample Matrix Spike			Run: SUB-C102127			06/03/08 13:35		
Zinc	2.10	mg/L	0.010	102	70	130			
Calcium	137	mg/L	1.0	104	70	130			
Magnesium	120	mg/L	1.0	107	70	130			
Potassium	101	mg/L	1.0	90	70	130			
Silica	5.53	mg/L	0.10		70	130			A
Sodium	386	mg/L	1.5	90	70	130			
Sample ID: C08051031-001CM SD2	Sample Matrix Spike Duplicate			Run: SUB-C102127			06/03/08 13:39		
Aluminum	1.93	mg/L	0.10	95	70	130	2.6	20	
Barium	1.98	mg/L	0.10	96	70	130	2.1	20	
Boron	2.07	mg/L	0.10	97	70	130	2.0	20	
Chromium	2.01	mg/L	0.050	99	70	130	2.4	20	
Iron	2.21	mg/L	0.030	104	70	130	0.5	20	
Manganese	2.07	mg/L	0.010	98	70	130	2.3	20	
Molybdenum	1.91	mg/L	0.10	94	70	130	2.3	20	
Nickel	2.01	mg/L	0.050	98	70	130	1.7	20	
Vanadium	2.11	mg/L	0.10	101	70	130	2.5	20	
Zinc	2.02	mg/L	0.010	99	70	130	3.7	20	
Calcium	134	mg/L	1.0	101	70	130	2.4	20	
Magnesium	116	mg/L	1.0	103	70	130	3.1	20	
Potassium	99.6	mg/L	1.0	89	70	130	1.3	20	
Silica	5.40	mg/L	0.10		70	130	2.5	20	A
Sodium	381	mg/L	1.5	86	70	130	1.2	20	
Sample ID: C08051053-001AMS2	Sample Matrix Spike			Run: SUB-C102127			06/03/08 16:39		
Aluminum	0.997	mg/L	0.10	98	70	130			
Barium	1.04	mg/L	0.10	99	70	130			
Boron	1.02	mg/L	0.10	97	70	130			
Calcium	95.0	mg/L	0.50	100	70	130			
Chromium	1.03	mg/L	0.050	101	70	130			
Iron	1.05	mg/L	0.030	103	70	130			
Magnesium	79.8	mg/L	0.50	103	70	130			
Manganese	1.03	mg/L	0.010	101	70	130			
Molybdenum	0.867	mg/L	0.10	85	70	130			
Nickel	1.01	mg/L	0.050	99	70	130			
Potassium	48.0	mg/L	0.50	87	70	130			
Sodium	77.3	mg/L	0.77	95	70	130			
Vanadium	1.14	mg/L	0.10	105	70	130			
Zinc	1.03	mg/L	0.010	100	70	130			
Sample ID: C08051053-001AMS D2	Sample Matrix Spike Duplicate			Run: SUB-C102127			06/03/08 16:43		
Aluminum	1.01	mg/L	0.10	99	70	130	1.3	20	
Barium	1.05	mg/L	0.10	100	70	130	1.2	20	

Qualifiers:

L - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R102127		
Sample ID: C08051053-001AMSD2	Sample Matrix Spike Duplicate			Run: SUB-C102127			06/03/08 16:43		
Boron	1.03	mg/L	0.10	98	70	130	0.4	20	
Calcium	93.8	mg/L	0.50	98	70	130	1.2	20	
Chromium	1.04	mg/L	0.050	101	70	130	0.6	20	
Iron	1.08	mg/L	0.030	106	70	130	2.6	20	
Magnesium	80.2	mg/L	0.50	103	70	130	0.5	20	
Manganese	1.03	mg/L	0.010	100	70	130	0.4	20	
Molybdenum	0.924	mg/L	0.10	91	70	130	6.4	20	
Nickel	1.01	mg/L	0.050	99	70	130	0.1	20	
Potassium	48.6	mg/L	0.50	88	70	130	1.1	20	
Sodium	78.1	mg/L	0.77	97	70	130	1.0	20	
Vanadium	1.12	mg/L	0.10	103	70	130	1.8	20	
Zinc	1.03	mg/L	0.010	100	70	130	0.2	20	
Method: E200.8							Batch: C_18688		
Sample ID: C08050953-001FMS	Sample Matrix Spike			Run: SUB-C102315			06/07/08 18:31		
Uranium	0.0132	mg/L	0.00030	97	70	130			
Sample ID: C08050953-001FMDS	Sample Matrix Spike Duplicate			Run: SUB-C102315			06/07/08 18:36		
Uranium	0.0133	mg/L	0.00030	98	70	130	0.8	20	
Sample ID: R08050321-0051	Post Digestion Spike			Run: SUB-C102315			06/07/08 22:50		
Uranium	0.0128	mg/L	0.00030	97	70	130			
Sample ID: R08050321-0051	Post Digestion Spike Duplicate			Run: SUB-C102315			06/07/08 22:55		
Uranium	0.0129	mg/L	0.00030	98	70	130	0.7	20	

Qualifiers:

- - 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: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18768		
Sample ID: MB-18768	Method Blank		Run: SUB-C102298			06/06/08 16:00			
Antimony	ND	mg/L	0.0002						
Arsenic	0.0007	mg/L	5E-05						
Cadmium	ND	mg/L	4E-05						
Lead	ND	mg/L	5E-05						
Selenium	0.0003	mg/L	0.0002						
Silver	0.0001	mg/L	5E-05						
Thallium	0.0001	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18768	Laboratory Control Sample		Run: SUB-C102298			06/06/08 16:07			
Antimony	0.580	mg/L	0.050	116	85	115			
Arsenic	0.562	mg/L	0.0010	112	85	115			
Cadmium	0.275	mg/L	0.010	110	85	115			
Lead	0.568	mg/L	0.050	114	85	115			
Selenium	0.569	mg/L	0.0020	114	85	115			
Silver	0.0480	mg/L	0.010	96	85	115			
Thallium	0.564	mg/L	0.10	113	85	115			
Sample ID: C08051073-001MMS3	Sample Matrix Spike		Run: SUB-C102298			06/06/08 18:56			
Antimony	0.540	mg/L	0.050	108	70	130			
Arsenic	0.536	mg/L	0.0010	107	70	130			
Cadmium	0.263	mg/L	0.010	105	70	130			
Lead	0.529	mg/L	0.050	105	70	130			
Selenium	0.527	mg/L	0.0020	104	70	130			
Silver	0.0433	mg/L	0.010	87	70	130			
Thallium	0.519	mg/L	0.10	104	70	130			
Uranium	0.557	mg/L	0.00032	110	70	130			
Sample ID: C08051073-001MMSD3	Sample Matrix Spike Duplicate		Run: SUB-C102298			06/06/08 19:23			
Antimony	0.539	mg/L	0.050	108	70	130	0.2	20	
Arsenic	0.535	mg/L	0.0010	106	70	130	0.2	20	
Cadmium	0.264	mg/L	0.010	106	70	130	0.4	20	
Lead	0.529	mg/L	0.050	105	70	130	0.1	20	
Selenium	0.534	mg/L	0.0020	105	70	130	1.3	20	
Silver	0.0451	mg/L	0.010	90	70	130	4.0	20	
Thallium	0.522	mg/L	0.10	104	70	130	0.5	20	
Uranium	0.572	mg/L	0.00032	113	70	130	2.6	20	
Sample ID: LCS3-18768	Laboratory Control Sample		Run: SUB-C102315			06/07/08 12:11			
Arsenic	0.519	mg/L	0.0010	104	85	115			
Lead	0.509	mg/L	0.050	102	85	115			
Selenium	0.519	mg/L	0.0020	104	85	115			
Uranium	0.519	mg/L	0.00032	104	85	115			

Qualifiers:

L - 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: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R102298		
Sample ID: LRB	Method Blank			Run: SUB-C102298		06/06/08 13:52			
Arsenic	9E-05	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	8E-05	mg/L	4E-05						
Thorium 232	0.0002	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C102298		06/06/08 13:58			
Arsenic	0.0543	mg/L	0.0010	108	85	115			
Cadmium	0.0527	mg/L	0.0010	105	85	115			
Copper	0.0539	mg/L	0.0010	108	85	115			
Lead	0.0537	mg/L	0.0010	107	85	115			
Mercury	0.00538	mg/L	0.0010	108	85	115			
Silver	0.0209	mg/L	0.0010	104	85	115			
Thorium 232	0.0540	mg/L	0.0010	108	85	115			
Uranium	0.0538	mg/L	0.00030	108	85	115			
Sample ID: C08051031-005CMS4	Post Digestion Spike			Run: SUB-C102298		06/06/08 21:32			
Arsenic	0.0538	mg/L	0.0010	104	70	130			
Cadmium	0.0483	mg/L	0.010	97	70	130			
Copper	0.0485	mg/L	0.010	96	70	130			
Lead	0.0532	mg/L	0.050	106	70	130			
Mercury	0.00536	mg/L	0.0010	107	70	130			
Silver	0.0128	mg/L	0.010	64	70	130			S
Thorium 232	0.0547	mg/L	0.0010	109	70	130			
Uranium	0.0552	mg/L	0.00030	110	70	130			
Sample ID: C08051031-005CMS4	Post Digestion Spike Duplicate			Run: SUB-C102298		06/06/08 21:39			
Arsenic	0.0524	mg/L	0.0010	102	70	130	2.5	20	
Cadmium	0.0487	mg/L	0.010	97	70	130	0.8	20	
Copper	0.0486	mg/L	0.010	96	70	130	0.2	20	
Lead	0.0526	mg/L	0.050	105	70	130	1.1	20	
Mercury	0.00539	mg/L	0.0010	108	70	130	0.6	20	
Silver	0.0133	mg/L	0.010	67	70	130	3.8	20	S
Thorium 232	0.0550	mg/L	0.0010	110	70	130	0.5	20	
Uranium	0.0548	mg/L	0.00030	109	70	130	0.7	20	

Qualifiers:

L - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: C_B_32817		
Sample ID: MB-32817	Method Blank					Run: SUB-C102258			06/04/08 21:47
Mercury	ND	mg/L		5E-05					
Sample ID: LFB-32817	Laboratory Fortified Blank					Run: SUB-C102258			06/04/08 21:49
Mercury	0.0019	mg/L	0.0010	97	85	115			
Sample ID: R08050321-001D	Sample Matrix Spike					Run: SUB-C102258			06/04/08 22:02
Mercury	0.0020	mg/L	0.0010	98	70	130			
Sample ID: R08050321-001D	Sample Matrix Spike Duplicate					Run: SUB-C102258			06/04/08 22:05
Mercury	0.0021	mg/L	0.0010	103	70	130	5.5	30	
Method: E245.1							Analytical Run: SUB-C102258		
Sample ID: QCS	Initial Calibration Verification Standard								06/04/08 17:50
Mercury	0.0021	mg/L	0.0010	103	90	110			

Qualifiers:

- - 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: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R34940		
Sample ID: LFB0805225816-3	Laboratory Fortified Blank			Run: DIONEX_080522A			05/22/08 18:18		
Chloride	4.63	mg/L	0.50	93	90	110			
Fluoride	1.78	mg/L	0.10	89	90	110			S
Nitrogen, Nitrate as N	2.30	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.37	mg/L	0.10	95	90	110			
Sulfate	13.8	mg/L	1.0	92	90	110			
Sample ID: LFB0805225816-4	Laboratory Fortified Blank			Run: DIONEX_080522A			05/22/08 18:34		
Chloride	4.76	mg/L	0.50	95	90	110			
Fluoride	1.84	mg/L	0.10	92	90	110			
Nitrogen, Nitrate as N	2.36	mg/L	0.10	94	90	110			
Nitrogen, Nitrite as N	2.44	mg/L	0.10	98	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: R08050285-001AMS	Sample Matrix Spike			Run: DIONEX_080522A			05/22/08 22:57		
Chloride	596	mg/L	5.4	98	80	120			
Fluoride	93.8	mg/L	0.56	87	80	120			
Nitrogen, Nitrate as N	122	mg/L	1.3	92	80	120			
Nitrogen, Nitrite as N	123	mg/L	2.9	95	80	120			
Sulfate	964	mg/L	3.4	87	80	120			
Sample ID: R08050285-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080522A			05/22/08 23:13		
Chloride	576	mg/L	5.4	90	80	120	3.4	10	
Fluoride	90.6	mg/L	0.56	84	80	120	3.5	10	
Nitrogen, Nitrate as N	117	mg/L	1.3	88	80	120	4.0	10	
Nitrogen, Nitrite as N	119	mg/L	2.9	91	80	120	3.6	10	
Sulfate	934	mg/L	3.4	83	80	120	3.2	10	
Sample ID: R08050321-004AMS	Sample Matrix Spike			Run: DIONEX_080522A			05/23/08 03:03		
Chloride	247	mg/L	5.4	90	80	120			
Fluoride	92.8	mg/L	0.56	86	80	120			
Nitrogen, Nitrate as N	119	mg/L	1.3	95	80	120			
Nitrogen, Nitrite as N	122	mg/L	2.9	98	80	120			
Sulfate	1140	mg/L	3.4	86	80	120			
Sample ID: R08050321-004AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080522A			05/23/08 03:19		
Chloride	238	mg/L	5.4	86	80	120	3.7	10	
Fluoride	89.0	mg/L	0.56	82	80	120	4.2	10	
Nitrogen, Nitrate as N	113	mg/L	1.3	91	80	120	4.9	10	
Nitrogen, Nitrite as N	117	mg/L	2.9	94	80	120	4.1	10	
Sulfate	1120	mg/L	3.4	83	80	120	1.4	10	

Qualifiers:

L - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0455		
Sample ID: MB-GrAB-0455	Method Blank						Run: SUB-C102338	06/07/08 04:24	
Gross Alpha	0.6	pCi/L							U
Gross Beta	-0.6	pCi/L							U
Sample ID: Th230-GrAB-0455	Laboratory Control Sample						Run: SUB-C102338	06/07/08 04:24	
Gross Alpha	150	pCi/L	110	70	130				
Sample ID: Cs137-GrAB-0455	Laboratory Control Sample						Run: SUB-C102338	06/07/08 04:24	
Gross Beta	88	pCi/L	94	70	130				
Sample ID: C08050619-001AMS	Sample Matrix Spike						Run: SUB-C102338	06/07/08 04:24	
Gross Alpha	92	pCi/L	65	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: C08050619-001AMSD	Sample Matrix Spike Duplicate						Run: SUB-C102338	06/07/08 04:24	
Gross Alpha	87	pCi/L	62	70	130	5.7	20.1		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: C08050619-001AMS	Sample Matrix Spike						Run: SUB-C102338	06/07/08 04:24	
Gross Beta	94	pCi/L	98	70	130				
Sample ID: C08050619-001AMSD	Sample Matrix Spike Duplicate						Run: SUB-C102338	06/07/08 04:24	
Gross Beta	91	pCi/L	95	70	130	2.8	15.9		
Method: E901.1							Batch: C_R101877		
Sample ID: LCS-R101877	Laboratory Control Sample						Run: SUB-C101877	05/28/08 05:30	
Cesium 137	1140	pCi/L	20	82	70	130			
Sample ID: MB-R101877	Method Blank						Run: SUB-C101877	05/28/08 05:30	
Gross Gamma	ND	pCi/L							U
Sample ID: R08050321-005H	Sample Duplicate						Run: SUB-C101877	05/28/08 05:30	
Gross Gamma	ND	pCi/L	20				0.0	30	U

Qualifiers:

- - 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: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0 Batch: C_18688									
Sample ID: C08050913-001IMS	Sample Matrix Spike								
Radium 226	77	pCi/L		98	70	130			06/03/08 08:59
Sample ID: C08050913-001IMSD	Sample Matrix Spike Duplicate								
Radium 226	72	pCi/L		91	70	130	7.4	25.5	06/03/08 08:59
Sample ID: MB-18688	Method Blank								
Radium 226	-0.4	pCi/L							06/03/08 10:37 U
Sample ID: LCS-18688	Laboratory Control Sample								
Radium 226	15	pCi/L		99	70	130			06/03/08 10:37
Method: E903.0 Batch: C_RA226-2839									
Sample ID: C08051073-001AMS	Sample Matrix Spike								
Radium 226	6.7	pCi/L		83	70	130			06/09/08 17:25
Sample ID: C08051073-001AMSD	Sample Matrix Spike Duplicate								
Radium 226	6.9	pCi/L		85	70	130	2.8	23.9	06/09/08 17:25
Sample ID: MB-RA226-2839	Method Blank								
Radium 226	-0.08	pCi/L							06/10/08 09:17 U
Sample ID: LCS-RA226-2839	Laboratory Control Sample								
Radium 226	7.1	pCi/L		90	70	130			06/10/08 09:17
Method: E907.0 Batch: C_18688									
Sample ID: R08050321-001I	Sample Matrix Spike								
Thorium 230	20.6	pCi/L	0.20	88	70	130			05/29/08 15:00
Sample ID: R08050321-001I	Sample Matrix Spike Duplicate								
Thorium 230	22.8	pCi/L	0.20	102	70	130	10	30	05/29/08 15:00
Sample ID: LCS-18688	Laboratory Control Sample								
Thorium 230	51.0	pCi/L	0.20	107	70	130			05/29/08 15:00
Sample ID: MB-18688	Method Blank								
Thorium 230	-0.2	pCi/L							05/29/08 15:00 U

Qualifiers:

L - Analyte reporting limit.
 U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R102575		
Sample ID: LCS-R102575	Laboratory Control Sample				Run: SUB-C102575				06/04/08 10:00
Thorium 230	6.60	pCi/L	0.20	94	70	130			
Sample ID: R08050321-004H	Sample Matrix Spike				Run: SUB-C102575				06/04/08 10:00
Thorium 230	15.5	pCi/L	0.20	96	70	130			
Sample ID: R08050321-004H	Sample Matrix Spike Duplicate				Run: SUB-C102575				06/04/08 10:00
Thorium 230	13.9	pCi/L	0.20	85	70	130	11	30	
Sample ID: MB-R102575	Method Blank				Run: SUB-C102575				06/04/08 10:00
Thorium 230	ND	pCi/L							U
Method: E909.0M							Batch: C_R104902		
Sample ID: C08050913-003IMS	Sample Matrix Spike				Run: SUB-C104902				07/03/08 09:50
Lead 210	1200	pCi/L		105	70	130			
Sample ID: C08050913-003IMS D	Sample Matrix Spike Duplicate				Run: SUB-C104902				07/03/08 09:50
Lead 210	1000	pCi/L		89	70	130	17	30	
Sample ID: MB-R104902	Method Blank				Run: SUB-C104902				07/03/08 09:50
Lead 210	1	pCi/L							U
Sample ID: LCS-R104902	Laboratory Control Sample				Run: SUB-C104902				07/03/08 09:50
Lead 210	61	pCi/L		101	70	130			
Method: E909.0M							Batch: C_R105446		
Sample ID: C08050919-002HMS	Sample Matrix Spike				Run: SUB-C105446				06/25/08 11:25
Lead 210	550	pCi/L		92	70	130			
Sample ID: C08050919-002HMSD	Sample Matrix Spike Duplicate				Run: SUB-C105446				06/25/08 11:25
Lead 210	420	pCi/L		71	70	130	26	30	
Sample ID: R08050321-002H	Sample Duplicate				Run: SUB-C105446				06/25/08 11:25
Lead 210	80	pCi/L					25	30	
Sample ID: MB-R105446	Method Blank				Run: SUB-C105446				06/25/08 11:25
Lead 210	ND	pCi/L							U
Sample ID: LCS-R105446	Laboratory Control Sample				Run: SUB-C105446				06/25/08 11:25
Lead 210	140	pCi/L		115	70	130			

Qualifiers:

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R102463		
Sample ID: R08050321-001H Polonium 210	Sample Matrix Spike					Run: SUB-C102463			06/05/08 17:45
	85	pCi/L	1.0	98	70	130			
Sample ID: R08050321-001H Polonium 210	Sample Matrix Spike Duplicate					Run: SUB-C102463			06/05/08 17:45
	87	pCi/L	1.0	100	70	130	1.6	30	
Sample ID: LCS-R102463 Polonium 210	Laboratory Control Sample					Run: SUB-C102463			06/05/08 17:45
	42	pCi/L	1.0	96	70	130			
Sample ID: MB-R102463 Polonium 210	Method Blank					Run: SUB-C102463			06/05/08 17:45
	ND	pCi/L							U
Method: RMO-3008							Batch: C_R103071		
Sample ID: R08050321-005I Polonium 210	Sample Matrix Spike					Run: SUB-C103071			06/19/08 12:00
	42	pCi/L	1.0	99	70	130			
Sample ID: R08050321-005I Polonium 210	Sample Matrix Spike Duplicate					Run: SUB-C103071			06/19/08 12:00
	52	pCi/L	1.0	124	70	130	21	30	
Sample ID: LCS-R103071 Polonium 210	Laboratory Control Sample					Run: SUB-C103071			06/19/08 12:00
	110	pCi/L	1.0	121	70	130			
Sample ID: MB-R103071 Polonium 210	Method Blank					Run: SUB-C103071			06/19/08 12:00
	0.5	pCi/L							U

Qualifiers:

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

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

Company Name: **RESPEC**
 Project Name, PWS, Permit, Etc.: **Power Tech Dewey Burdock**
 EPA/State Compliance: Yes No
 Report Mail Address: **RESPEC**
 Contact Name: **Cory Foreman**
 State: **SD**
 Email: **cory.foreman@respec.com**
 Sampler: (Please Print) **Eric Kranitz**
 Invoice Contact & Phone: **cory.foreman@respec.com**
 Purchase 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

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Shipped by: Cooler Method
				SEE ATTACHED	Normal Turnaround (TAT)		
1 Dew Burd GN696	5/21/08	11:55	W	As per note		Comments: All ground water	Receipt Temp: 5.2 °C
2 Dew Burd GN680	5/21/08	12:50	W				On Ice: <input checked="" type="radio"/> Yes <input type="radio"/> No
3 Dew Burd GN695	5/21/08	14:45	W				Custody Seal: Y N
4 Dew Burd GN694	5/21/08	15:57	W				Intact: Y N
5 Dew Burd GN697	5/21/08	16:44	W				Signature Match: Y N
6							
7							
8							
9							
10							

Signature: **Eric Lawrence** Date/Time: **5/22/08 09:20**
 Signature: **Steve Foreman** Date/Time: **5/22/08 9:20**
 Signature: **Saks** Date/Time: **5/22/08 09:20**
 Signature: **Steve Foreman** Date/Time: **5/22/08 9:20**
 Signature: **Steve Foreman** Date/Time: **5/22/08 9:20**
 Signature: **Steve Foreman** Date/Time: **5/22/08 9:20**

Number of Containers: **5**
 Sample Type: **A W S V B D**
 Vegetation: **Prossay**
 Other: **Other**

Received by Laboratory: **Saks** Date/Time: **5/22/08 09:20**
 Received by Laboratory: **Steve Foreman** Date/Time: **5/22/08 9:20**
 Received by Laboratory: **Steve Foreman** Date/Time: **5/22/08 9:20**
 Received by Laboratory: **Steve Foreman** Date/Time: **5/22/08 9:20**

Sample Disposal: **Return to Client**
 Lab Disposal: **Return to Client**

Custody Record MUST be Signed

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

LABORATORY USE ONLY

RESPEC

2.7-H-927

Appendix 2.7-H



ANALYTICAL SUMMARY REPORT

July 30, 2008

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

Workorder No.: R08050406 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 6 samples from RESPEC Inc on 5/29/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08050406-001	DewBurd GW698	05/28/08 12:35	05/29/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08050406-002	DewBurd GW698	05/28/08 12:45	05/29/08	Aqueous	Same As Above
R08050406-003	DewBurd GW3026	05/28/08 15:15	05/29/08	Aqueous	Same As Above
R08050406-004	DewBurd GW622	05/28/08 18:26	05/29/08	Aqueous	Same As Above
R08050406-005	DewBurd GW615	05/28/08 19:20	05/29/08	Aqueous	Same As Above
R08050406-006	DewBurd GW689	05/28/08 22:25	05/29/08	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



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050406-001
 Client Sample ID: DewBurd GW698

Report Date: 07/30/08
 Collection Date: 05/28/08 12:35
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	114	mg/L		5		1	A2320 B	06/02/08 11:18/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/02/08 11:18/mb
Bicarbonate as HCO3	139	mg/L		5		1	A2320 B	06/02/08 11:18/mb
Calcium	382	mg/L		0.5		2	E200.7	06/16/08 17:03/eli-c
Chloride	9	mg/L		1		1	E300.0	05/29/08 14:09/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	05/29/08 14:09/jmh
Magnesium	137	mg/L		0.5		2	E200.7	06/16/08 17:03/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	06/03/08 13:00/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/29/08 14:09/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/29/08 14:09/jmh
Potassium	15.5	mg/L		0.5		2	E200.7	06/16/08 17:03/eli-c
Silica	5.2	mg/L		0.5		2	E200.7	06/16/08 17:03/eli-c
Sodium	88	mg/L	D	2		2	E200.7	06/16/08 17:03/eli-c
Sulfate	1270	mg/L	D	3		50	E300.0	05/29/08 13:20/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2280	umhos/cm		5.0		1	A2510 B	05/29/08 15:14/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	06/04/08 00:00/jmh
pH	6.78	s.u.		0.01		1	A4500-H B	05/29/08 14:20/tb
Sodium Adsorption Ratio (SAR)	0.98	unitless		0.10		1	Calculation	07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	05/30/08 11:57/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/16/08 17:03/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/23/08 02:25/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/16/08 17:03/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	06/16/08 17:03/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/23/08 02:25/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/16/08 17:03/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/23/08 02:25/eli-c
Iron	1.69	mg/L		0.03		2	E200.7	06/16/08 17:03/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/23/08 02:25/eli-c
Manganese	2.31	mg/L		0.01		1	E200.8	06/24/08 12:31/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/23/08 02:25/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/16/08 17:03/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/16/08 17:03/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	06/20/08 15:16/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/24/08 12:31/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050406-001
 Client Sample ID: DewBurd GW698

Report Date: 07/30/08
 Collection Date: 05/28/08 12:35
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1 E200.8	06/23/08 02:25/eli-c
Uranium	0.101	mg/L		0.0003		1 E200.8	06/23/08 02:25/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	06/16/08 17:03/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	06/16/08 17:03/eli-c
METALS - SUSPENDED							
Uranium	0.0038	mg/L		0.0003		1 E200.8	06/26/08 00:28/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	06/20/08 10:13/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1210	pCi/L				1 E900.0	06/26/08 11:24/eli-c
Gross Alpha precision (±)	33.2	pCi/L				1 E900.0	06/26/08 11:24/eli-c
Gross Alpha MDC	6.1	pCi/L				1 E900.0	06/26/08 11:24/eli-c
Gross Beta	380	pCi/L				1 E900.0	06/26/08 11:24/eli-c
Gross Beta precision (±)	9.9	pCi/L				1 E900.0	06/26/08 11:24/eli-c
Gross Beta MDC	8.5	pCi/L				1 E900.0	06/26/08 11:24/eli-c
Lead 210	5.5	pCi/L	U			1 E909.0M	06/17/08 06:30/eli-c
Lead 210 MDC	8.2	pCi/L				1 E909.0M	06/17/08 06:30/eli-c
Lead 210 precision (±)	5.0	pCi/L				1 E909.0M	06/17/08 06:30/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1 RMO-3008	06/16/08 18:00/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1 RMO-3008	06/16/08 18:00/eli-c
Radium 226	413	pCi/L				1 E903.0	06/16/08 22:01/eli-c
Radium 226 precision (±)	3.7	pCi/L				1 E903.0	06/16/08 22:01/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
Gross Gamma	4100	pCi/L		20		1 E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	150	pCi/L				1 E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	2.6	pCi/L	U			1 E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	10.6	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	1.4	pCi/L		1.0		1 RMO-3008	07/01/08 14:30/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1 RMO-3008	07/01/08 14:30/eli-c
Radium 226	14.0	pCi/L				1 E903.0	06/17/08 09:14/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: R08050406-001
 Client Sample ID: DewBurd GW698

Report Date: 07/30/08
 Collection Date: 05/28/08 12:35
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 precision (±)	1.3	pCi/L				1 E903.0	06/17/08 09:14/eli-c
Radium 226 MDC	0.6	pCi/L				1 E903.0	06/17/08 09:14/eli-c
Thorium 230	0.7	pCi/L		0.2		1 E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1 E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	25600	pCi/L		100		1 D5072-92	05/31/08 02:56/eli-c
Radon 222 precision (±)	164	pCi/L				1 D5072-92	05/31/08 02:56/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	06/09/08 02:14/eli-c
Arsenic	0.002	mg/L		0.001		1 E200.8	06/09/08 02:14/eli-c
Barium	ND	mg/L		0.1		1 E200.8	06/09/08 02:14/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	06/09/08 02:14/eli-c
Boron	0.1	mg/L		0.1		2 E200.7	06/05/08 21:56/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	06/09/08 02:14/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	06/09/08 02:14/eli-c
Copper	ND	mg/L		0.01		1 E200.8	06/09/08 02:14/eli-c
Iron	4.60	mg/L		0.03		2 E200.7	06/05/08 21:56/eli-c
Lead	ND	mg/L		0.001		1 E200.8	06/09/08 02:14/eli-c
Manganese	2.32	mg/L		0.01		1 E200.8	06/09/08 02:14/eli-c
Mercury	ND	mg/L		0.0001		1 E245.1	06/17/08 11:01/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	06/09/08 02:14/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	06/09/08 02:14/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	06/09/08 02:14/eli-c
Silver	ND	mg/L		0.005		1 E200.8	06/17/08 18:54/eli-c
Strontium	4.8	mg/L		0.1		1 E200.8	06/09/08 02:14/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	06/09/08 02:14/eli-c
Uranium	0.116	mg/L		0.0003		1 E200.8	06/09/08 02:14/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	06/09/08 02:14/eli-c
DATA QUALITY							
A/C Balance (± 5)	9.13	%				1 A1030 E	07/18/08 00:00/jmh
Anions	28.9	meq/L				1 A1030 E	07/18/08 00:00/jmh
Cations	34.8	meq/L				1 A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	1980	mg/L				1 A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.09					1 A1030 E	07/18/08 00:00/jmh

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

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



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050406-002
 Client Sample ID: DewBurd GW698

Report Date: 07/30/08
 Collection Date: 05/28/08 12:45
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	118	mg/L		5		1	A2320 B	06/02/08 11:23/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/02/08 11:23/mb
Bicarbonate as HCO3	144	mg/L		5		1	A2320 B	06/02/08 11:23/mb
Calcium	375	mg/L		0.5		2	E200.7	06/16/08 17:15/eli-c
Chloride	9	mg/L		1		1	E300.0	05/29/08 14:42/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	05/29/08 14:42/jmh
Magnesium	135	mg/L		0.5		2	E200.7	06/16/08 17:15/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	06/03/08 13:04/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/29/08 14:42/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/29/08 14:42/jmh
Potassium	15.4	mg/L		0.5		2	E200.7	06/16/08 17:15/eli-c
Silica	5.1	mg/L		0.5		2	E200.7	06/16/08 17:15/eli-c
Sodium	87	mg/L	D	2		2	E200.7	06/16/08 17:15/eli-c
Sulfate	1360	mg/L	D	3		50	E300.0	05/29/08 14:25/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2460	umhos/cm		5.0		1	A2510 B	05/29/08 15:15/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	06/04/08 00:00/jmh
pH	6.75	s.u.		0.01		1	A4500-H B	05/29/08 14:21/tb
Sodium Adsorption Ratio (SAR)	0.98	unitless		0.10		1	Calculation	07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	2100	mg/L		5		1	A2540 C	05/30/08 11:58/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/16/08 17:15/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/23/08 02:31/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/16/08 17:15/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	06/16/08 17:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/23/08 02:31/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/16/08 17:15/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/23/08 02:31/eli-c
Iron	1.56	mg/L		0.03		2	E200.7	06/16/08 17:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/23/08 02:31/eli-c
Manganese	2.23	mg/L		0.01		1	E200.8	06/23/08 02:31/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/23/08 02:31/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/16/08 17:15/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/16/08 17:15/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	06/20/08 15:23/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/24/08 12:38/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050406-002
 Client Sample ID: DewBurd GW698

Report Date: 07/30/08
 Collection Date: 05/28/08 12:45
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/23/08 02:31/eli-c
Uranium	0.103	mg/L		0.0003		1	E200.8	06/23/08 02:31/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 17:15/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 17:15/eli-c
METALS - SUSPENDED								
Uranium	0.0032	mg/L		0.0003		1	E200.8	06/26/08 00:35/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 10:19/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1390	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Alpha precision (±)	35.6	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Alpha MDC	6.1	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Beta	383	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Beta precision (±)	9.9	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Beta MDC	8.5	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Lead 210	9.4	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Lead 210 MDC	8.2	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Lead 210 precision (±)	5.0	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	06/16/08 18:00/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008	06/16/08 18:00/eli-c
Radium 226	412	pCi/L				1	E903.0	06/16/08 22:01/eli-c
Radium 226 precision (±)	3.7	pCi/L				1	E903.0	06/16/08 22:01/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
Gross Gamma	3500	pCi/L		20		1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	130	pCi/L				1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	9.0	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	1.3	pCi/L		1.0		1	RMO-3008	07/01/08 14:30/eli-c
Polonium 210 precision (±)	0.88	pCi/L				1	RMO-3008	07/01/08 14:30/eli-c
Radium 226	13.5	pCi/L				1	E903.0	06/17/08 09:14/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: R08050406-002
 Client Sample ID: DewBurd GW698

Report Date: 07/30/08
 Collection Date: 05/28/08 12:45
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	1.2	pCi/L					1	E903.0	06/17/08 09:14/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	06/17/08 09:14/eli-c
Thorium 230	0.5	pCi/L		0.2			1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	22400	pCi/L		100			1	D5072-92	05/31/08 02:56/eli-c
Radon 222 precision (±)	153	pCi/L					1	D5072-92	05/31/08 02:56/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/09/08 02:21/eli-c
Arsenic	0.003	mg/L		0.001			1	E200.8	06/09/08 02:21/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/09/08 02:21/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/09/08 02:21/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/05/08 22:04/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/09/08 02:21/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/09/08 02:21/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/09/08 02:21/eli-c
Iron	4.88	mg/L		0.03			2	E200.7	06/05/08 22:04/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/09/08 02:21/eli-c
Manganese	2.45	mg/L		0.01			1	E200.8	06/09/08 02:21/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/17/08 11:03/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/09/08 02:21/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/09/08 02:21/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/09/08 02:21/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 19:28/eli-c
Strontium	5.0	mg/L		0.1			1	E200.8	06/09/08 02:21/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/09/08 02:21/eli-c
Uranium	0.119	mg/L		0.0003			1	E200.8	06/09/08 02:21/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	06/09/08 02:21/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.02	%					1	A1030 E	07/18/08 00:00/jmh
Anions	30.9	meq/L					1	A1030 E	07/18/08 00:00/jmh
Cations	34.2	meq/L					1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	2060	mg/L					1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.04						1	A1030 E	07/18/08 00:00/jmh

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

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



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050406-003
 Client Sample ID: DewBurd GW3026

Report Date: 07/30/08
 Collection Date: 05/28/08 15:15
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	166	mg/L		5			1	A2320 B	06/02/08 11:25/mb
Carbonate as CO3	ND	mg/L			5		1	A2320 B	06/02/08 11:25/mb
Bicarbonate as HCO3	202	mg/L			5		1	A2320 B	06/02/08 11:25/mb
Calcium	407	mg/L			0.5		2	E200.7	06/16/08 17:23/eli-c
Chloride	15	mg/L			1		1	E300.0	05/29/08 15:15/jmh
Fluoride	0.4	mg/L			0.1		1	E300.0	05/29/08 15:15/jmh
Magnesium	105	mg/L			0.5		2	E200.7	06/16/08 17:23/eli-c
Nitrogen, Ammonia as N	0.7	mg/L			0.1		1	A4500-NH3 G	06/03/08 13:05/jmh
Nitrogen, Nitrate as N	ND	mg/L			0.1		1	E300.0	05/29/08 15:15/jmh
Nitrogen, Nitrite as N	ND	mg/L			0.1		1	E300.0	05/29/08 15:15/jmh
Potassium	25.3	mg/L			0.5		2	E200.7	06/16/08 17:23/eli-c
Silica	2.3	mg/L			0.5		2	E200.7	06/16/08 17:23/eli-c
Sodium	209	mg/L	D		2		2	E200.7	06/16/08 17:23/eli-c
Sulfate	1480	mg/L	D		3		50	E300.0	05/29/08 14:58/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	2610	umhos/cm			5.0		1	A2510 B	05/29/08 15:17/tb
Oxidation-Reduction Potential	210	mV					1	A2580 B	06/04/08 00:00/jmh
pH	6.95	s.u.			0.01		1	A4500-H B	05/29/08 14:21/tb
Sodium Adsorption Ratio (SAR)	2.4	unitless			0.10		1	Calculation	07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	2400	mg/L			5		1	A2540 C	05/30/08 11:58/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L			0.1		2	E200.7	06/16/08 17:23/eli-c
Arsenic	0.002	mg/L			0.001		1	E200.8	06/23/08 02:58/eli-c
Barium	ND	mg/L			0.1		2	E200.7	06/16/08 17:23/eli-c
Boron	0.2	mg/L			0.1		2	E200.7	06/16/08 17:23/eli-c
Cadmium	ND	mg/L			0.005		1	E200.8	06/23/08 02:58/eli-c
Chromium	ND	mg/L			0.05		2	E200.7	06/16/08 17:23/eli-c
Copper	ND	mg/L			0.01		1	E200.8	06/23/08 02:58/eli-c
Iron	0.23	mg/L			0.03		2	E200.7	06/16/08 17:23/eli-c
Lead	ND	mg/L			0.001		1	E200.8	06/23/08 02:58/eli-c
Manganese	0.82	mg/L			0.01		1	E200.8	06/23/08 02:58/eli-c
Mercury	ND	mg/L			0.001		1	E200.8	06/23/08 02:58/eli-c
Molybdenum	ND	mg/L			0.1		2	E200.7	06/16/08 17:23/eli-c
Nickel	ND	mg/L			0.05		2	E200.7	06/16/08 17:23/eli-c
Selenium	ND	mg/L			0.001		1	A3114 B	06/20/08 15:25/eli-c
Silver	ND	mg/L			0.005		1	E200.8	06/24/08 13:05/eli-c

Report: RL - Analyte reporting limit.
 Definitions: 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.
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050406-003
 Client Sample ID: DewBurd GW3026

Report Date: 07/30/08
 Collection Date: 05/28/08 15:15
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 06/23/08 02:58/eli-c
Uranium	0.0281	mg/L		0.0003		1	E200.8 06/23/08 02:58/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 06/16/08 17:23/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 06/16/08 17:23/eli-c
METALS - SUSPENDED							
Uranium	0.0013	mg/L		0.0003		1	E200.8 06/26/08 00:41/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 06/20/08 10:21/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	92.4	pCi/L				1	E900.0 06/26/08 11:24/eli-c
Gross Alpha precision (±)	10.5	pCi/L				1	E900.0 06/26/08 11:24/eli-c
Gross Alpha MDC	6.9	pCi/L				1	E900.0 06/26/08 11:24/eli-c
Gross Beta	28.3	pCi/L				1	E900.0 06/26/08 11:24/eli-c
Gross Beta precision (±)	5.6	pCi/L				1	E900.0 06/26/08 11:24/eli-c
Gross Beta MDC	8.6	pCi/L				1	E900.0 06/26/08 11:24/eli-c
Lead 210	-0.7	pCi/L	U			1	E909.0M 06/17/08 06:30/eli-c
Lead 210 MDC	8.2	pCi/L				1	E909.0M 06/17/08 06:30/eli-c
Lead 210 precision (±)	4.9	pCi/L				1	E909.0M 06/17/08 06:30/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008 06/16/08 18:00/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1	RMO-3008 06/16/08 18:00/eli-c
Radium 226	9.6	pCi/L				1	E903.0 06/16/08 22:01/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0 06/16/08 22:01/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
Gross Gamma	0.0	pCi/L	U	20		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 - SUSPENDED							
Lead 210	4.0	pCi/L	U			1	E909.0M 06/11/08 06:30/eli-c
Lead 210 precision (±)	10.6	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	-0.1	pCi/L	U	1.0		1	RMO-3008 07/01/08 14:30/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1	RMO-3008 07/01/08 14:30/eli-c
Radium 226	1.2	pCi/L				1	E903.0 06/17/08 09:14/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050406-003
 Client Sample ID: DewBurd GW3026

Report Date: 07/30/08
 Collection Date: 05/28/08 15:15
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	06/17/08 09:14/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	06/17/08 09:14/eli-c
Thorium 230	0.2	pCi/L	U	0.2			1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	213	pCi/L		100			1	D5072-92	05/31/08 02:56/eli-c
Radon 222 precision (±)	37.0	pCi/L					1	D5072-92	05/31/08 02:56/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/09/08 02:48/eli-c
Arsenic	0.028	mg/L		0.001			1	E200.8	06/09/08 02:48/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/09/08 02:48/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/09/08 02:48/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	06/05/08 22:08/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/09/08 02:48/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/09/08 02:48/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/09/08 02:48/eli-c
Iron	11.1	mg/L		0.03			2	E200.7	06/05/08 22:08/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/09/08 02:48/eli-c
Manganese	0.87	mg/L		0.01			1	E200.8	06/09/08 02:48/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/17/08 11:06/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/09/08 02:48/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/09/08 02:48/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/09/08 02:48/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 19:34/eli-c
Strontium	7.0	mg/L		0.1			1	E200.8	06/09/08 02:48/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/09/08 02:48/eli-c
Uranium	0.0322	mg/L		0.0003			1	E200.8	06/09/08 02:48/eli-c
Zinc	0.01	mg/L		0.01			1	E200.8	06/09/08 02:48/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.90	%					1	A1030 E	07/18/08 00:00/jmh
Anions	34.5	meq/L					1	A1030 E	07/18/08 00:00/jmh
Cations	38.8	meq/L					1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	2340	mg/L					1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.03						1	A1030 E	07/18/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: R08050406-004
 Client Sample ID: DewBurd GW622

Report Date: 07/30/08
 Collection Date: 05/28/08 18:26
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	178	mg/L		5		1	A2320 B	06/02/08 11:27/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/02/08 11:27/mb
Bicarbonate as HCO3	217	mg/L		5		1	A2320 B	06/02/08 11:27/mb
Calcium	97.5	mg/L		0.5		2	E200.7	06/16/08 17:27/eli-c
Chloride	10	mg/L		1		1	E300.0	05/29/08 15:47/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	05/29/08 15:47/jmh
Magnesium	32.7	mg/L		0.5		2	E200.7	06/16/08 17:27/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/03/08 13:06/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/29/08 15:47/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/29/08 15:47/jmh
Potassium	10.6	mg/L		0.5		2	E200.7	06/16/08 17:27/eli-c
Silica	4.0	mg/L		0.5		2	E200.7	06/16/08 17:27/eli-c
Sodium	182	mg/L	D	2		2	E200.7	06/16/08 17:27/eli-c
Sulfate	493	mg/L	D	3		50	E300.0	05/29/08 15:31/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1220	umhos/cm		5.0		1	A2510 B	05/29/08 15:18/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	06/04/08 00:00/jmh
pH	7.52	s.u.		0.01		1	A4500-H B	05/29/08 14:23/tb
Sodium Adsorption Ratio (SAR)	4.1	unitless		0.10		1	Calculation	07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	890	mg/L		5		1	A2540 C	05/30/08 12:00/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/16/08 17:27/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/23/08 03:05/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/16/08 17:27/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/16/08 17:27/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/23/08 03:05/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/16/08 17:27/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/23/08 03:05/eli-c
Iron	ND	mg/L		0.03		2	E200.7	06/16/08 17:27/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	06/23/08 03:05/eli-c
Manganese	0.20	mg/L		0.01		2	E200.7	06/16/08 17:27/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/23/08 03:05/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/16/08 17:27/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/16/08 17:27/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	06/20/08 15:27/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/24/08 13:12/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050406-004
 Client Sample ID: DewBurd GW622

Report Date: 07/30/08
 Collection Date: 05/28/08 18:26
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/23/08 03:05/eli-c
Uranium	0.0056	mg/L		0.0003		1	E200.8	06/23/08 03:05/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 17:27/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 17:27/eli-c
METALS - SUSPENDED								
Uranium	0.0005	mg/L		0.0003		1	E200.8	06/26/08 00:48/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 10:23/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	32.6	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Alpha precision (±)	4.0	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Alpha MDC	2.8	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Beta	11.9	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Beta precision (±)	2.1	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Beta MDC	3.2	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Lead 210	1.2	pCi/L	U			1	E909.0M	06/17/08 06:30/eli-c
Lead 210 MDC	8.2	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Lead 210 precision (±)	4.9	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Polonium 210	-0.3	pCi/L	U	1.0		1	RMO-3008	06/16/08 18:00/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1	RMO-3008	06/16/08 18:00/eli-c
Radium 226	3.2	pCi/L				1	E903.0	06/16/08 22:01/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	06/16/08 22:01/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
Gross Gamma	150	pCi/L		20		1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	46	pCi/L				1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.9	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	2.5	pCi/L		1.0		1	RMO-3008	07/01/08 14:30/eli-c
Polonium 210 precision (±)	1.3	pCi/L				1	RMO-3008	07/01/08 14:30/eli-c
Radium 226	1.0	pCi/L				1	E903.0	06/17/08 09:14/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: R08050406-004
 Client Sample ID: DewBurd GW622

Report Date: 07/30/08
 Collection Date: 05/28/08 18:26
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.5	pCi/L					1	E903.0	06/17/08 09:14/eli-c
Radium 226 MDC	0.6	pCi/L					1	E903.0	06/17/08 09:14/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	804	pCi/L		100			1	D5072-92	05/31/08 02:56/eli-c
Radon 222 precision (±)	43.3	pCi/L					1	D5072-92	05/31/08 02:56/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/09/08 02:55/eli-c
Arsenic	0.006	mg/L		0.001			1	E200.8	06/09/08 02:55/eli-c
Barium	0.2	mg/L		0.1			1	E200.8	06/09/08 02:55/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/09/08 02:55/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	06/05/08 22:48/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/09/08 02:55/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/09/08 02:55/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/09/08 02:55/eli-c
Iron	10.7	mg/L		0.03			2	E200.7	06/05/08 22:48/eli-c
Lead	0.023	mg/L		0.001			1	E200.8	06/09/08 02:55/eli-c
Manganese	0.25	mg/L		0.01			1	E200.8	06/09/08 02:55/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/17/08 11:13/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/09/08 02:55/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/09/08 02:55/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/09/08 02:55/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 19:41/eli-c
Strontium	1.6	mg/L		0.1			1	E200.8	06/09/08 02:55/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/09/08 02:55/eli-c
Uranium	0.0068	mg/L		0.0003			1	E200.8	06/09/08 02:55/eli-c
Zinc	0.25	mg/L		0.01			1	E200.8	06/09/08 02:55/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.53	%					1	A1030 E	07/18/08 00:00/jmh
Anions	14.1	meq/L					1	A1030 E	07/18/08 00:00/jmh
Cations	15.8	meq/L					1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	944	mg/L					1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950						1	A1030 E	07/18/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: R08050406-005
 Client Sample ID: DewBurd GW615

Report Date: 07/30/08
 Collection Date: 05/28/08 19:20
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	138	mg/L		5		1	A2320 B	06/02/08 11:30/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/02/08 11:30/mb
Bicarbonate as HCO3	168	mg/L		5		1	A2320 B	06/02/08 11:30/mb
Calcium	79.2	mg/L		0.5		2	E200.7	06/16/08 17:31/eli-c
Chloride	5	mg/L		1		1	E300.0	05/29/08 16:20/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	05/29/08 16:20/jmh
Magnesium	23.2	mg/L		0.5		2	E200.7	06/16/08 17:31/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/03/08 13:07/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/29/08 16:20/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/29/08 16:20/jmh
Potassium	9.0	mg/L		0.5		2	E200.7	06/16/08 17:31/eli-c
Silica	4.4	mg/L		0.5		2	E200.7	06/16/08 17:31/eli-c
Sodium	134	mg/L	D	2		2	E200.7	06/16/08 17:31/eli-c
Sulfate	399	mg/L	D	3		50	E300.0	05/29/08 16:04/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1050	umhos/cm		5.0		1	A2510 B	05/29/08 15:20/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	06/04/08 00:00/jmh
pH	7.16	s.u.		0.01		1	A4500-H B	05/29/08 14:25/tb
Sodium Adsorption Ratio (SAR)	3.4	unitless		0.10		1	Calculation	07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	710	mg/L		5		1	A2540 C	05/30/08 12:01/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/16/08 17:31/eli-c
Arsenic	0.013	mg/L		0.001		1	E200.8	06/23/08 03:12/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/16/08 17:31/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/16/08 17:31/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/23/08 03:12/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/16/08 17:31/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/23/08 03:12/eli-c
Iron	0.10	mg/L		0.03		2	E200.7	06/16/08 17:31/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/23/08 03:12/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	06/23/08 03:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/23/08 03:12/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/16/08 17:31/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/16/08 17:31/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	06/20/08 15:29/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/24/08 13:19/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.
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050406-005
 Client Sample ID: DewBurd GW615

Report Date: 07/30/08
 Collection Date: 05/28/08 19:20
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/23/08 03:12/eli-c
Uranium	0.0024	mg/L		0.0003		1	E200.8	06/23/08 03:12/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 17:31/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 17:31/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/26/08 00:55/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 10:25/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	15.3	pCi/L				1	E900.0	06/27/08 00:01/eli-c
Gross Alpha precision (±)	2.5	pCi/L				1	E900.0	06/27/08 00:01/eli-c
Gross Alpha MDC	2.1	pCi/L				1	E900.0	06/27/08 00:01/eli-c
Gross Beta	3.7	pCi/L				1	E900.0	06/27/08 00:01/eli-c
Gross Beta precision (±)	1.8	pCi/L				1	E900.0	06/27/08 00:01/eli-c
Gross Beta MDC	2.8	pCi/L				1	E900.0	06/27/08 00:01/eli-c
Lead 210	3.8	pCi/L	U			1	E909.0M	06/17/08 06:30/eli-c
Lead 210 MDC	8.2	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Lead 210 precision (±)	4.9	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008	06/16/08 18:00/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1	RMO-3008	06/16/08 18:00/eli-c
Radium 226	2.0	pCi/L				1	E903.0	06/16/08 22:01/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	06/16/08 22:01/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
Gross Gamma	170	pCi/L		20		1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	46	pCi/L				1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	1.5	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 (±)	0.43	pCi/L				1	RMO-3008	06/25/08 17:27/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0	06/17/08 09:14/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050406-005
 Client Sample ID: DewBurd GW615

Report Date: 07/30/08
 Collection Date: 05/28/08 19:20
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	06/17/08 09:14/eli-c
Radium 226 MDC	0.6	pCi/L					1	E903.0	06/17/08 09:14/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1070	pCi/L		100			1	D5072-92	05/31/08 02:56/eli-c
Radon 222 precision (±)	45.9	pCi/L					1	D5072-92	05/31/08 02:56/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/09/08 03:02/eli-c
Arsenic	0.024	mg/L		0.001			1	E200.8	06/09/08 03:02/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/09/08 03:02/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/09/08 03:02/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	06/05/08 22:53/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/09/08 03:02/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/09/08 03:02/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/09/08 03:02/eli-c
Iron	1.40	mg/L		0.03			2	E200.7	06/05/08 22:53/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/09/08 03:02/eli-c
Manganese	0.07	mg/L		0.01			1	E200.8	06/09/08 03:02/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/17/08 11:15/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/09/08 03:02/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/09/08 03:02/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/09/08 03:02/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 19:48/eli-c
Strontium	1.4	mg/L		0.1			1	E200.8	06/09/08 03:02/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/09/08 03:02/eli-c
Uranium	0.0025	mg/L		0.0003			1	E200.8	06/09/08 03:02/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	06/09/08 03:02/eli-c
DATA QUALITY									
A/C Balance (± 5)	3.00	%					1	A1030 E	07/18/08 00:00/jmh
Anions	11.2	meq/L					1	A1030 E	07/18/08 00:00/jmh
Cations	11.9	meq/L					1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	745	mg/L					1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950						1	A1030 E	07/18/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: R08050406-006
 Client Sample ID: DewBurd GW689

Report Date: 07/30/08
 Collection Date: 05/28/08 22:25
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	148	mg/L		5		1	A2320 B 06/02/08 11:40/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 06/02/08 11:40/mb
Bicarbonate as HCO3	180	mg/L		5		1	A2320 B 06/02/08 11:40/mb
Calcium	49.2	mg/L		0.5		2	E200.7 06/16/08 17:35/eli-c
Chloride	5	mg/L		1		1	E300.0 05/29/08 17:59/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0 05/29/08 17:59/jmh
Magnesium	16.4	mg/L		0.5		2	E200.7 06/16/08 17:35/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 06/03/08 13:09/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 05/29/08 17:59/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 05/29/08 17:59/jmh
Potassium	8.1	mg/L		0.5		2	E200.7 06/16/08 17:35/eli-c
Silica	4.6	mg/L		0.5		2	E200.7 06/16/08 17:35/eli-c
Sodium	184	mg/L	D	2		2	E200.7 06/16/08 17:35/eli-c
Sulfate	400	mg/L	D	3		50	E300.0 05/29/08 17:10/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1010	umhos/cm		5.0		1	A2510 B 05/29/08 15:23/tb
Oxidation-Reduction Potential	210	mV				1	A2580 B 06/04/08 00:00/jmh
pH	7.80	s.u.		0.01		1	A4500-H B 05/29/08 14:26/tb
Sodium Adsorption Ratio (SAR)	5.8	unitless		0.10		1	Calculation 07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	730	mg/L		5		1	A2540 C 05/30/08 12:02/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 06/16/08 17:35/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8 06/23/08 03:19/eli-c
Barium	ND	mg/L		0.1		2	E200.7 06/16/08 17:35/eli-c
Boron	ND	mg/L		0.1		2	E200.7 06/16/08 17:35/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 06/23/08 03:19/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 06/16/08 17:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8 06/23/08 03:19/eli-c
Iron	ND	mg/L		0.03		2	E200.7 06/16/08 17:35/eli-c
Lead	ND	mg/L		0.001		1	E200.8 06/23/08 03:19/eli-c
Manganese	0.04	mg/L		0.01		2	E200.7 06/16/08 17:35/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 06/23/08 03:19/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 06/16/08 17:35/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 06/16/08 17:35/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 06/20/08 15:31/eli-c
Silver	ND	mg/L		0.005		1	E200.8 06/24/08 13:26/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: R08050406-006
 Client Sample ID: DewBurd GW689

Report Date: 07/30/08
 Collection Date: 05/28/08 22:25
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1 E200.8	06/23/08 03:19/eli-c
Uranium	0.0043	mg/L		0.0003		1 E200.8	06/23/08 03:19/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	06/16/08 17:35/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	06/16/08 17:35/eli-c
METALS - SUSPENDED							
Uranium	0.0004	mg/L		0.0003		1 E200.8	06/26/08 01:01/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	06/20/08 10:27/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	34.9	pCi/L				1 E900.0	06/27/08 00:01/eli-c
Gross Alpha precision (±)	3.6	pCi/L				1 E900.0	06/27/08 00:01/eli-c
Gross Alpha MDC	2.2	pCi/L				1 E900.0	06/27/08 00:01/eli-c
Gross Beta	12.2	pCi/L				1 E900.0	06/27/08 00:01/eli-c
Gross Beta precision (±)	1.9	pCi/L				1 E900.0	06/27/08 00:01/eli-c
Gross Beta MDC	2.9	pCi/L				1 E900.0	06/27/08 00:01/eli-c
Lead 210	6.3	pCi/L	U			1 E909.0M	06/17/08 06:30/eli-c
Lead 210 MDC	8.2	pCi/L				1 E909.0M	06/17/08 06:30/eli-c
Lead 210 precision (±)	5.0	pCi/L				1 E909.0M	06/17/08 06:30/eli-c
Polonium 210	-0.4	pCi/L	U	1.0		1 RMO-3008	06/16/08 18:00/eli-c
Polonium 210 precision (±)	0.10	pCi/L				1 RMO-3008	06/16/08 18:00/eli-c
Radium 226	5.7	pCi/L				1 E903.0	06/16/08 22:01/eli-c
Radium 226 precision (±)	0.5	pCi/L				1 E903.0	06/16/08 22:01/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
Gross Gamma	150	pCi/L		20		1 E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	40	pCi/L				1 E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-2	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	0.2	pCi/L	U	1.0		1 RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	0.43	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 09:14/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050406-006
Client Sample ID: DewBurd GW689

Report Date: 07/30/08
Collection Date: 05/28/08 22:25
Date Received: 05/29/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	06/17/08 09:14/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	06/17/08 09:14/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	1390	pCi/L		100		1	D5072-92	05/31/08 02:56/eli-c
Radon 222 precision (±)	48.3	pCi/L				1	D5072-92	05/31/08 02:56/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	06/09/08 03:08/eli-c
Arsenic	0.004	mg/L		0.001		1	E200.8	06/09/08 03:08/eli-c
Barium	ND	mg/L		0.1		1	E200.8	06/09/08 03:08/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	06/09/08 03:08/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	06/05/08 22:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/09/08 03:08/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	06/09/08 03:08/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/09/08 03:08/eli-c
Iron	1.33	mg/L		0.03		2	E200.7	06/05/08 22:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/09/08 03:08/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	06/09/08 03:08/eli-c
Mercury	ND	mg/L		0.0001		1	E245.1	06/17/08 11:17/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	06/09/08 03:08/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	06/09/08 03:08/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	06/09/08 03:08/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/17/08 19:55/eli-c
Strontium	1.0	mg/L		0.1		1	E200.8	06/09/08 03:08/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	06/09/08 03:08/eli-c
Uranium	0.0117	mg/L		0.0003		1	E200.8	06/09/08 03:08/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	06/09/08 03:08/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.36	%				1	A1030 E	07/18/08 00:00/jmh
Anions	11.5	meq/L				1	A1030 E	07/18/08 00:00/jmh
Cations	12.0	meq/L				1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	764	mg/L				1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950					1	A1030 E	07/18/08 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: 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: 07/30/08
Work Order: R08050406

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080602A-ALK-SEL-W		
Sample ID: LCS1_080602A Alkalinity, Total as CaCO3	Laboratory Control Sample 960	mg/L	5.0	96	90	110			06/02/08 10:56
Sample ID: MBLK1_080602A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						06/02/08 12:28
Sample ID: R08050406-005AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 242	mg/L	5.0	98	80	120			06/02/08 11:35
Sample ID: R08050406-005AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 244	mg/L	5.0	100	80	120	0.8	10	06/02/08 11:38
Method: A2510 B							Batch: 080529_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080529 Conductivity @ 25 C	Laboratory Control Sample 1390	umhos/cm	5.0	98	90	110			05/29/08 15:04
Sample ID: LCS1-1_080529 Conductivity @ 25 C	Laboratory Control Sample 153	umhos/cm	5.0	102	90	110			05/29/08 15:02
Sample ID: LCS2-1_080529 Conductivity @ 25 C	Laboratory Control Sample 4890	umhos/cm	5.0	98	90	110			05/29/08 15:01
Sample ID: R08050406-005ADUP Conductivity @ 25 C	Sample Duplicate 1040	umhos/cm	5.0				1.0	10	05/29/08 15:22
Method: A2540 C							Batch: 080530A-SLDS-TDS-W		
Sample ID: LCS1_080530A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 220	mg/L	5.0	108	90	110			05/30/08 11:44
Sample ID: MBLK1_080530A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						05/30/08 11:45
Sample ID: R08050406-003AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 2700	mg/L	5.0	147	80	120			05/30/08 11:59 S
Sample ID: R08050406-003AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 2700	mg/L	5.0	135	80	120	0.9	10	05/30/08 12:00 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: 07/30/08
 Work Order: R08050406

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080604-ORP-ISE-W		
Sample ID: LCS Oxidation-Reduction Potential	Laboratory Control Sample 470	mV		100	95	105			06/04/08 00:00
Sample ID: R08050406-001F Oxidation-Reduction Potential	Sample Duplicate 210	mV					3.2	10	06/04/08 00:00
Method: A3114 B							Batch: C_SE3114-080620A		
Sample ID: 288-92-2 Selenium-IV	Laboratory Control Sample 0.049	mg/L	0.0010	99	90	110			06/20/08 10:11
Sample ID: R08050356-001A Selenium-IV	Sample Matrix Spike 0.069	mg/L	0.0010	137	85	115			06/20/08 10:45 S
Sample ID: R08050356-001A Selenium-IV	Sample Matrix Spike Duplicate 0.075	mg/L	0.0010	151	85	115	9.3	10	06/20/08 10:48 S
Method: A3114 B							Batch: C_SE3114-080620C		
Sample ID: MBLK Selenium	Method Blank ND	mg/L	6E-05						06/20/08 15:10
Sample ID: 288-92-2 Selenium	Laboratory Control Sample 0.049	mg/L	0.0010	99	90	110			06/20/08 15:14
Sample ID: R08050356-001A Selenium	Sample Matrix Spike 0.073	mg/L	0.0010	146	85	115			06/20/08 15:48 S
Sample ID: R08050356-001A Selenium	Sample Matrix Spike Duplicate 0.073	mg/L	0.0010	145	85	115	0.0	10	06/20/08 15:50 S
Method: A4500-H B							Batch: 080529_1_PH-W		
Sample ID: LCS_pH-1_080529 pH	Laboratory Control Sample 6.92	s.u.	0.010	101	98.55	101.45			05/29/08 14:07
Sample ID: R08050406-003ADUP pH	Sample Duplicate 6.99	s.u.	0.010				0.6	1.25	05/29/08 14:24

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050406

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-06-03_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01				Run: TECHAA2-R_080603A	06/03/08 11:58	
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	98	90	110	Run: TECHAA2-R_080603A	06/03/08 12:01	
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	98	90	110	Run: TECHAA2-R_080603A	06/03/08 12:14	
Sample ID: R08050406-001BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.45	mg/L	0.10	110	80	120	Run: TECHAA2-R_080603A	06/03/08 13:03	
Sample ID: R08050419-001BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.48	mg/L	0.10	104	80	120	Run: TECHAA2-R_080603A	06/03/08 13:13	
Sample ID: R08050419-001BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.45	mg/L	0.10	90	80	120	Run: TECHAA2-R_080603A	06/03/08 13:14	7.5 10

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050406

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: R08050406

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	

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: R08050406

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						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	8E-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 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			
Manganese	0.0530	mg/L	0.0010	106	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			
Manganese	0.136	mg/L	0.010	100	70	130			
Mercury	0.00517	mg/L	0.0010	103	70	130			
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	
Manganese	0.138	mg/L	0.010	103	70	130	0.9	20	
Mercury	0.00531	mg/L	0.0010	106	70	130	2.7	20	
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	
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			

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: R08050406

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		
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			
Manganese	0.0789	mg/L	0.0010	93	70	130			
Mercury	0.00506	mg/L	0.0010	101	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	
Manganese	0.0827	mg/L	0.0010	101	70	130	4.7	20	
Mercury	0.00530	mg/L	0.0010	106	70	130	4.7	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: E200.8							Batch: C_R103200		
Sample ID: LRB	Method Blank			Run: SUB-C103200			06/24/08 11:37		
Manganese	ND	mg/L	5E-05						
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C103200			06/24/08 11:44		
Manganese	0.0499	mg/L	0.0010	100	85	115			
Silver	0.0200	mg/L	0.0010	100	85	115			
Sample ID: C08060096-004CMS4	Post Digestion Spike			Run: SUB-C103200			06/24/08 13:59		
Manganese	1.01	mg/L	0.010		70	130			A
Silver	0.0131	mg/L	0.010	66	70	130			S
Sample ID: C08060096-004CMSD4	Post Digestion Spike Duplicate			Run: SUB-C103200			06/24/08 14:26		
Manganese	0.994	mg/L	0.010		70	130	1.9	20	A
Silver	0.0127	mg/L	0.010	63	70	130	3.6	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: 07/30/08
Work Order: R08050406

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: C_B_33012		
Sample ID: B08060960-003CMS Mercury	Sample Matrix Spike 0.0019	mg/L	0.0010	90	70	130			06/17/08 09:36
Sample ID: B08060960-003CMSD Mercury	Sample Matrix Spike Duplicate 0.0020	mg/L	0.0010	95	70	130	4.7	30	06/17/08 09:39
Sample ID: MB-33012 Mercury	Method Blank ND	mg/L	5E-05						06/17/08 09:25
Sample ID: LFB-33012 Mercury	Laboratory Fortified Blank 0.0017	mg/L	0.0010	86	85	115			06/17/08 09:28
Sample ID: B08060966-003BMS Mercury	Sample Matrix Spike 0.0017	mg/L	0.0010	86	70	130			06/17/08 11:27
Sample ID: B08060966-003BMSD Mercury	Sample Matrix Spike Duplicate 0.0017	mg/L	0.0010	83	70	130	3.6	30	06/17/08 11:29

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: R08050406

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			
Fluoride	1.81	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.25	mg/L	0.10	90	90	110			
Nitrogen, Nitrite as N	2.34	mg/L	0.10	94	90	110			
Sulfate	13.5	mg/L	1.0	90	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			
Fluoride	1.84	mg/L	0.10	92	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.42	mg/L	0.10	97	90	110			
Sulfate	13.9	mg/L	1.0	93	90	110			
Sample ID: R08050406-001AMS	Sample Matrix Spike			Run: DIONEX_080530A			05/29/08 13:36		
Chloride	252	mg/L	5.4	86	80	120			
Fluoride	92.0	mg/L	0.56	85	80	120			
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120			
Nitrogen, Nitrite as N	121	mg/L	2.9	97	80	120			
Sulfate	1920	mg/L	3.4	88	80	120			
Sample ID: R08050406-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080530A			05/29/08 13:53		
Chloride	247	mg/L	5.4	84	80	120	2.2	10	
Fluoride	89.8	mg/L	0.56	83	80	120	2.4	10	
Nitrogen, Nitrate as N	113	mg/L	1.3	91	80	120	2.7	10	
Nitrogen, Nitrite as N	118	mg/L	2.9	94	80	120	2.5	10	
Sulfate	1890	mg/L	3.4	83	80	120	1.9	10	
Sample ID: R08050406-006AMS	Sample Matrix Spike			Run: DIONEX_080530A			05/29/08 17:26		
Chloride	237	mg/L	5.4	86	80	120			
Fluoride	92.5	mg/L	0.56	85	80	120			
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120			
Nitrogen, Nitrite as N	121	mg/L	2.9	97	80	120			
Sulfate	1010	mg/L	3.4	82	80	120			
Sample ID: R08050406-006AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080530A			05/29/08 17:42		
Chloride	238	mg/L	5.4	86	80	120	0.5	10	
Fluoride	93.0	mg/L	0.56	86	80	120	0.5	10	
Nitrogen, Nitrate as N	117	mg/L	1.3	93	80	120	0.4	10	
Nitrogen, Nitrite as N	122	mg/L	2.9	97	80	120	0.5	10	
Sulfate	1000	mg/L	3.4	81	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: 07/30/08
Work Order: R08050406

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0465		
Sample ID: MB-GrAB-0465	Method Blank					Run: SUB-C103416			06/26/08 11:24
Gross Alpha	0.5	pCi/L							
Gross Beta	-2	pCi/L							
Sample ID: UNAT-GrAB-0465	Laboratory Control Sample					Run: SUB-C103416			06/26/08 11:24
Gross Alpha	150	pCi/L	106		70	130			
Sample ID: C08060007-003EMS	Sample Matrix Spike					Run: SUB-C103416			06/26/08 11:24
Gross Alpha	240	pCi/L	98		70	130			
Sample ID: C08060007-003EMSD	Sample Matrix Spike Duplicate					Run: SUB-C103416			06/26/08 11:24
Gross Alpha	230	pCi/L	90		70	130	4.7	15.3	
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: 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	
Method: E907.0							Batch: C_R103514		
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	

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: R08050406

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
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.									
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: C08060130-004FMDS	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	
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	

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC	Project Name, PWS, Permit, Etc. Power Tech Deway Burdock	Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: RESPEC	Contact Name: Cory Foreman @ respec.com	Phone/Fax:	Sampler: (Please Print) Eric Cantre
Invoice Address:	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

Special Report/Formats - EI 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 Burdock

SEE ATTACHED
 Normal Turnaround (TAT)

R U S H

Contact EI prior to RUSH sample submittal for charges and scheduling - See Instruction Page

Comments:
All GW

LABORATORY USE ONLY

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Received by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
¹ DewBurd GW 698	5-28-08	12:35	W						
² DewBurd GW 698	5-28-08	12:45	W						
³ DewBurd GW 3024	5-28-08	15:15	W						
⁴ DewBurd GW 622	5-28-08	18:26	W						
⁵ DewBurd GW 615	5-28-08	19:20	W						
⁶ DewBurd GW 689	5-28-08	22:25	W						
7									
8									
9									
10									

Requested by (print): Eric Cantre	Date/Time: 5/29/08 0815	Signature: <i>[Signature]</i>	Received by (print): Eric Cantre	Date/Time: 5/29/08 0815	Signature: <i>[Signature]</i>
Sample Disposal: Return to Client	Lab Disposal:	Received by Laboratory: LINDA CARSON	Date/Time: 5/29/08 0815	Signature: <i>[Signature]</i>	

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



ANALYTICAL SUMMARY REPORT

July 30, 2008

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

Workorder No.: R08050419 Quote ID: R286

Project Name: Edgemont

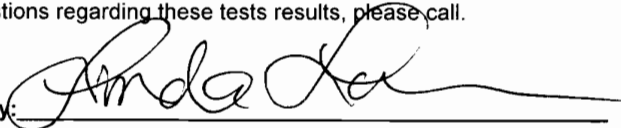
Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 5/30/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08050419-001	DewBurd GW7002	05/29/08 10:44	05/30/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08050419-002	DewBurd GW7	05/29/08 11:10	05/30/08	Aqueous	Same As Above
R08050419-003	DewBurd GW8	05/29/08 11:41	05/30/08	Aqueous	Same As Above
R08050419-004	DewBurd GW628	05/29/08 15:02	05/30/08	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



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050419-001
 Client Sample ID: DewBurd GW7002

Report Date: 07/30/08
 Collection Date: 05/29/08 10:44
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	254	mg/L		5		1	A2320 B 06/02/08 11:43/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 06/02/08 11:43/mb
Bicarbonate as HCO3	310	mg/L		5		1	A2320 B 06/02/08 11:43/mb
Calcium	264	mg/L		0.5		2	E200.7 06/16/08 19:25/eli-c
Chloride	9	mg/L		1		1	E300.0 05/31/08 21:14/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0 05/31/08 21:14/jmh
Magnesium	103	mg/L		0.5		2	E200.7 06/16/08 19:25/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G 06/03/08 13:12/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 05/31/08 21:14/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 05/31/08 21:14/jmh
Potassium	21.7	mg/L		0.5		2	E200.7 06/16/08 19:25/eli-c
Silica	3.4	mg/L		0.5		2	E200.7 06/16/08 19:25/eli-c
Sodium	197	mg/L	D	2		2	E200.7 06/16/08 19:25/eli-c
Sulfate	1020	mg/L	D	3		50	E300.0 05/31/08 20:58/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2480	umhos/cm		5.0		1	A2510 B 06/02/08 15:03/tb
Oxidation-Reduction Potential	230	mV				1	A2580 B 06/04/08 00:00/jmh
pH	7.36	s.u.		0.01		1	A4500-H B 06/02/08 15:40/tb
Sodium Adsorption Ratio (SAR)	2.6	unitless		0.10		1	Calculation 07/30/08 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	1800	mg/L		5		1	A2540 C 05/30/08 12:02/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 06/16/08 19:25/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 06/22/08 19:12/eli-c
Barium	ND	mg/L		0.1		2	E200.7 06/16/08 19:25/eli-c
Boron	ND	mg/L		0.1		2	E200.7 06/16/08 19:25/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 06/22/08 19:12/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 06/16/08 19:25/eli-c
Copper	ND	mg/L		0.01		1	E200.8 06/22/08 19:12/eli-c
Iron	0.06	mg/L		0.03		2	E200.7 06/16/08 19:25/eli-c
Lead	ND	mg/L		0.001		1	E200.8 06/22/08 19:12/eli-c
Manganese	0.41	mg/L		0.01		2	E200.7 06/16/08 19:25/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 06/22/08 19:12/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 06/16/08 19:25/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 06/16/08 19:25/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 06/20/08 16:05/eli-c
Silver	ND	mg/L		0.005		1	E200.8 06/22/08 19:12/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050419-001
 Client Sample ID: DewBurd GW7002

Report Date: 07/30/08
 Collection Date: 05/29/08 10:44
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/22/08 19:12/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8	06/22/08 19:12/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 19:25/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 19:25/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/26/08 01:08/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 11:02/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	29.5	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	6.5	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	7.4	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta	28.4	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	5.1	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta MDC	7.7	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Lead 210	-0.6	pCi/L	U			1	E909.0M	06/25/08 09:15/eli-c
Lead 210 MDC	5.9	pCi/L				1	E909.0M	06/25/08 09:15/eli-c
Lead 210 precision (±)	3.5	pCi/L				1	E909.0M	06/25/08 09:15/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	06/17/08 12:00/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	06/17/08 12:00/eli-c
Radium 226	8.0	pCi/L				1	E903.0	06/19/08 02:32/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	06/19/08 02:32/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	06/30/08 17:02/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/30/08 17:02/eli-c
Gross Gamma	0.0	pCi/L	U	20		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 - SUSPENDED								
Lead 210	-1.1	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	0.2	pCi/L	U	1.0		1	RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	0.43	pCi/L				1	RMO-3008	06/25/08 17:27/eli-c
Radium 226	0.0	pCi/L	U			1	E903.0	06/17/08 09:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050419-001
 Client Sample ID: DewBurd GW7002

Report Date: 07/30/08
 Collection Date: 05/29/08 10:44
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.3	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	0.0	pCi/L	U	0.2			1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1270	pCi/L		100			1	D5072-92	06/04/08 12:40/eli-c
Radon 222 precision (±)	109	pCi/L					1	D5072-92	06/04/08 12:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/13/08 20:31/eli-c
Arsenic	0.004	mg/L	D	0.002			1	E200.8	06/13/08 20:31/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/13/08 20:31/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/13/08 20:31/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/13/08 20:28/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/13/08 20:31/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/13/08 20:31/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/13/08 20:31/eli-c
Iron	1.32	mg/L		0.03			2	E200.7	06/13/08 20:28/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/13/08 20:31/eli-c
Manganese	0.40	mg/L		0.01			1	E200.8	06/13/08 20:31/eli-c
Mercury	ND	mg/L		0.0001			1	E200.8	06/13/08 20:31/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/17/08 11:41/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/13/08 20:31/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/13/08 20:31/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/13/08 20:31/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 14:58/eli-c
Strontium	7.7	mg/L		0.1			1	E200.8	06/13/08 20:31/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/13/08 20:31/eli-c
Uranium	0.0006	mg/L		0.0003			1	E200.8	06/13/08 20:31/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	06/13/08 20:31/eli-c
DATA QUALITY									
A/C Balance (± 5)	7.56	%					1	A1030 E	07/30/08 00:00/jmh
Anions	26.5	meq/L					1	A1030 E	07/30/08 00:00/jmh
Cations	30.9	meq/L					1	A1030 E	07/30/08 00:00/jmh
Solids, Total Dissolved Calculated	1780	mg/L					1	A1030 E	07/30/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.03						1	A1030 E	07/30/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050419-002
 Client Sample ID: DewBurd GW7

Report Date: 07/30/08
 Collection Date: 05/29/08 11:10
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	170	mg/L		5			1	A2320 B	06/02/08 11:45/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	06/02/08 11:45/mb
Bicarbonate as HCO3	207	mg/L		5			1	A2320 B	06/02/08 11:45/mb
Calcium	42.1	mg/L		0.5			2	E200.7	06/16/08 19:29/eli-c
Chloride	11	mg/L		1			1	E300.0	05/31/08 21:47/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	05/31/08 21:47/jmh
Magnesium	18.2	mg/L		0.5			2	E200.7	06/16/08 19:29/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1			1	A4500-NH3 G	06/03/08 13:16/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	05/31/08 21:47/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	05/31/08 21:47/jmh
Potassium	11.0	mg/L		0.5			2	E200.7	06/16/08 19:29/eli-c
Silica	4.1	mg/L		0.5			2	E200.7	06/16/08 19:29/eli-c
Sodium	300	mg/L	D	2			2	E200.7	06/16/08 19:29/eli-c
Sulfate	514	mg/L	D	3			50	E300.0	05/31/08 21:31/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1650	umhos/cm		5.0			1	A2510 B	06/02/08 15:04/tb
Oxidation-Reduction Potential	210	mV					1	A2580 B	06/04/08 00:00/jmh
pH	8.17	s.u.		0.01			1	A4500-H B	06/02/08 15:42/tb
Sodium Adsorption Ratio (SAR)	9.7	unitless		0.10			1	Calculation	07/30/08 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	960	mg/L		5			1	A2540 C	05/30/08 12:03/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	06/16/08 19:29/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	06/22/08 19:19/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/16/08 19:29/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/16/08 19:29/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/22/08 19:19/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/16/08 19:29/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/22/08 19:19/eli-c
Iron	ND	mg/L		0.03			2	E200.7	06/16/08 19:29/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/22/08 19:19/eli-c
Manganese	0.03	mg/L		0.01			1	E200.8	06/22/08 19:19/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	06/22/08 19:19/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	06/16/08 19:29/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/16/08 19:29/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	06/20/08 16:07/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/22/08 19:19/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050419-002
 Client Sample ID: DewBurd GW7

Report Date: 07/30/08
 Collection Date: 05/29/08 11:10
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/22/08 19:19/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	06/22/08 19:19/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 19:29/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 19:29/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/26/08 01:15/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 11:05/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	3.3	pCi/L	U			1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	4.2	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta	9.6	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	2.8	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta MDC	4.4	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Lead 210	0.5	pCi/L	U			1	E909.0M	06/25/08 09:15/eli-c
Lead 210 MDC	5.9	pCi/L				1	E909.0M	06/25/08 09:15/eli-c
Lead 210 precision (±)	3.5	pCi/L				1	E909.0M	06/25/08 09:15/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	06/17/08 12:00/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1	RMO-3008	06/17/08 12:00/eli-c
Radium 226	0.9	pCi/L				1	E903.0	06/19/08 02:32/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	06/19/08 02:32/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/30/08 17:02/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	06/30/08 17:02/eli-c
Gross Gamma	0.0	pCi/L	U	20		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 - SUSPENDED								
Lead 210	-7.4	pCi/L	U			1	E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	10.4	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	-0.1	pCi/L	U	1.0		1	RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	06/25/08 17:27/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	06/17/08 09:15/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.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050419-002
 Client Sample ID: DewBurd GW7

Report Date: 07/30/08
 Collection Date: 05/29/08 11:10
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Thorium 230	0.2	pCi/L	U	0.2			1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	451	pCi/L		100			1	D5072-92	06/04/08 12:40/eli-c
Radon 222 precision (±)	98.8	pCi/L					1	D5072-92	06/04/08 12:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/13/08 20:38/eli-c
Arsenic	0.003	mg/L	D	0.002			1	E200.8	06/13/08 20:38/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/13/08 20:38/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/13/08 20:38/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/13/08 20:37/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/13/08 20:38/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/13/08 20:38/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/13/08 20:38/eli-c
Iron	0.41	mg/L		0.03			2	E200.7	06/13/08 20:37/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/13/08 20:38/eli-c
Manganese	0.03	mg/L		0.01			1	E200.8	06/13/08 20:38/eli-c
Mercury	ND	mg/L		0.0001			1	E200.8	06/13/08 20:38/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/17/08 11:43/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/13/08 20:38/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/13/08 20:38/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/13/08 20:38/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 15:12/eli-c
Strontium	1.1	mg/L		0.1			1	E200.8	06/13/08 20:38/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/13/08 20:38/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	06/13/08 20:38/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	06/13/08 20:38/eli-c
DATA QUALITY									
A/C Balance (± 5)	8.11	%					1	A1030 E	07/30/08 00:00/jmh
Anions	14.4	meq/L					1	A1030 E	07/30/08 00:00/jmh
Cations	17.0	meq/L					1	A1030 E	07/30/08 00:00/jmh
Solids, Total Dissolved Calculated	1010	mg/L					1	A1030 E	07/30/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950						1	A1030 E	07/30/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050419-003
 Client Sample ID: DewBurd GW8

Report Date: 07/30/08
 Collection Date: 05/29/08 11:41
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	164	mg/L		5			1	A2320 B	06/02/08 11:48/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	06/02/08 11:48/mb
Bicarbonate as HCO3	200	mg/L		5			1	A2320 B	06/02/08 11:48/mb
Calcium	58.9	mg/L		0.5			2	E200.7	06/16/08 19:33/eli-c
Chloride	11	mg/L		1			1	E300.0	05/31/08 22:20/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	05/31/08 22:20/jmh
Magnesium	26.3	mg/L		0.5			2	E200.7	06/16/08 19:33/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	06/03/08 13:17/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	05/31/08 22:20/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	05/31/08 22:20/jmh
Potassium	13.7	mg/L		0.5			2	E200.7	06/16/08 19:33/eli-c
Silica	3.5	mg/L		0.5			2	E200.7	06/16/08 19:33/eli-c
Sodium	240	mg/L	D	2			2	E200.7	06/16/08 19:33/eli-c
Sulfate	514	mg/L	D	3			50	E300.0	05/31/08 22:04/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1560	umhos/cm		5.0			1	A2510 B	06/02/08 15:05/tb
Oxidation-Reduction Potential	210	mV					1	A2580 B	06/04/08 00:00/jmh
pH	7.97	s.u.		0.01			1	A4500-H B	06/02/08 15:43/tb
Sodium Adsorption Ratio (SAR)	6.5	unitless		0.10			1	Calculation	07/30/08 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	940	mg/L		5			1	A2540 C	05/30/08 12:03/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	06/16/08 19:33/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	06/27/08 02:31/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/16/08 19:33/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/16/08 19:33/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/22/08 19:26/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/16/08 19:33/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/27/08 02:31/eli-c
Iron	ND	mg/L		0.03			2	E200.7	06/16/08 19:33/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/22/08 19:26/eli-c
Manganese	0.09	mg/L		0.01			2	E200.7	06/16/08 19:33/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	06/22/08 19:26/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	06/16/08 19:33/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/16/08 19:33/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	06/20/08 16:09/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/22/08 19:26/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050419-003
 Client Sample ID: DewBurd GW8

Report Date: 07/30/08
 Collection Date: 05/29/08 11:41
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/22/08 19:26/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	06/22/08 19:26/eli-c
Vanadium	0.1	mg/L		0.1		2	E200.7	06/16/08 19:33/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 19:33/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/26/08 01:22/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 11:07/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	3.2	pCi/L	U			1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	2.6	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	4.0	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta	16.2	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	2.6	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta MDC	3.9	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Lead 210	0.8	pCi/L	U			1	E909.0M	06/25/08 09:15/eli-c
Lead 210 MDC	5.9	pCi/L				1	E909.0M	06/25/08 09:15/eli-c
Lead 210 precision (±)	3.5	pCi/L				1	E909.0M	06/25/08 09:15/eli-c
Polonium 210	-0.2	pCi/L	U	1.0		1	RMO-3008	06/17/08 12:00/eli-c
Polonium 210 precision (±)	0.10	pCi/L				1	RMO-3008	06/17/08 12:00/eli-c
Radium 226	1.2	pCi/L				1	E903.0	06/19/08 02:32/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	06/19/08 02:32/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	06/30/08 17:02/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	06/30/08 17:02/eli-c
Gross Gamma	0.0	pCi/L	U	20		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 - SUSPENDED								
Lead 210	4.9	pCi/L	U			1	E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	10.6	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	-0.1	pCi/L	U	1.0		1	RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	0.33	pCi/L				1	RMO-3008	06/25/08 17:27/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	06/17/08 09:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050419-003
 Client Sample ID: DewBurd GW8

Report Date: 07/30/08
 Collection Date: 05/29/08 11:41
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	514	pCi/L		100			1	D5072-92	06/04/08 12:40/eli-c
Radon 222 precision (±)	99.3	pCi/L					1	D5072-92	06/04/08 12:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/13/08 20:45/eli-c
Arsenic	0.003	mg/L	D	0.002			1	E200.8	06/13/08 20:45/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/13/08 20:45/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/13/08 20:45/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/13/08 20:41/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/13/08 20:45/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/13/08 20:45/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/13/08 20:45/eli-c
Iron	0.23	mg/L		0.03			2	E200.7	06/13/08 20:41/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/13/08 20:45/eli-c
Manganese	0.09	mg/L		0.01			1	E200.8	06/13/08 20:45/eli-c
Mercury	ND	mg/L		0.0001			1	E200.8	06/13/08 20:45/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/17/08 11:45/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/13/08 20:45/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/13/08 20:45/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/13/08 20:45/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 16:32/eli-c
Strontium	1.6	mg/L		0.1			1	E200.8	06/13/08 20:45/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/13/08 20:45/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	06/13/08 20:45/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	06/13/08 20:45/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.33	%					1	A1030 E	07/30/08 00:00/jmh
Anions	14.3	meq/L					1	A1030 E	07/30/08 00:00/jmh
Cations	15.9	meq/L					1	A1030 E	07/30/08 00:00/jmh
Solids, Total Dissolved Calculated	973	mg/L					1	A1030 E	07/30/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.970						1	A1030 E	07/30/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 9 of 12
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050419-004
 Client Sample ID: DewBurd GW628

Report Date: 07/30/08
 Collection Date: 05/29/08 15:02
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	160	mg/L		5			1	A2320 B	06/02/08 11:51/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	06/02/08 11:51/mb
Bicarbonate as HCO3	195	mg/L		5			1	A2320 B	06/02/08 11:51/mb
Calcium	40.1	mg/L		0.5			2	E200.7	06/16/08 19:57/eli-c
Chloride	42	mg/L	D	5			50	E300.0	05/31/08 22:37/jmh
Fluoride	0.5	mg/L		0.1			1	E300.0	05/31/08 22:53/jmh
Magnesium	17.5	mg/L		0.5			2	E200.7	06/16/08 19:57/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	06/03/08 13:18/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	05/31/08 22:53/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	05/31/08 22:53/jmh
Potassium	8.2	mg/L		0.5			2	E200.7	06/16/08 19:57/eli-c
Silica	4.0	mg/L		0.5			2	E200.7	06/16/08 19:57/eli-c
Sodium	307	mg/L	D	2			2	E200.7	06/16/08 19:57/eli-c
Sulfate	515	mg/L	D	3			50	E300.0	05/31/08 22:37/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1640	umhos/cm		5.0			1	A2510 B	06/02/08 15:07/tb
Oxidation-Reduction Potential	180	mV					1	A2580 B	06/04/08 00:00/jmh
pH	8.21	s.u.		0.01			1	A4500-H B	06/02/08 15:44/tb
Sodium Adsorption Ratio (SAR)	10	unitless		0.10			1	Calculation	07/30/08 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	980	mg/L		5			1	A2540 C	05/30/08 12:05/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	06/16/08 19:57/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	06/23/08 02:18/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/16/08 19:57/eli-c
Boron	0.2	mg/L		0.1			2	E200.7	06/16/08 19:57/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/23/08 02:18/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/16/08 19:57/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/23/08 02:18/eli-c
Iron	ND	mg/L		0.03			2	E200.7	06/16/08 19:57/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/23/08 02:18/eli-c
Manganese	0.08	mg/L		0.01			2	E200.7	06/16/08 19:57/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	06/23/08 02:18/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	06/16/08 19:57/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/16/08 19:57/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	06/20/08 16:11/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/24/08 12:25/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050419-004
 Client Sample ID: DewBurd GW628

Report Date: 07/30/08
 Collection Date: 05/29/08 15:02
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/23/08 02:18/eli-c
Uranium	0.0027	mg/L		0.0003		1	E200.8	06/23/08 02:18/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 19:57/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 19:57/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/26/08 01:28/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 11:09/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	39.0	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	4.8	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	4.1	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta	11.4	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	2.8	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta MDC	4.4	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Lead 210	0.1	pCi/L	U			1	E909.0M	06/25/08 09:15/eli-c
Lead 210 MDC	5.9	pCi/L				1	E909.0M	06/25/08 09:15/eli-c
Lead 210 precision (±)	3.5	pCi/L				1	E909.0M	06/25/08 09:15/eli-c
Polonium 210	-0.5	pCi/L	U	1.0		1	RMO-3008	06/17/08 12:00/eli-c
Polonium 210 precision (±)	0.20	pCi/L				1	RMO-3008	06/17/08 12:00/eli-c
Radium 226	6.1	pCi/L				1	E903.0	06/19/08 02:32/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	06/19/08 02:32/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/30/08 17:02/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	06/30/08 17:02/eli-c
Gross Gamma	260	pCi/L		20		1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	52	pCi/L				1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.5	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	0.1	pCi/L	U	1.0		1	RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	0.26	pCi/L				1	RMO-3008	06/25/08 17:27/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	06/17/08 09:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050419-004
 Client Sample ID: DewBurd GW628

Report Date: 07/30/08
 Collection Date: 05/29/08 15:02
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	5040	pCi/L		100			1	D5072-92	06/04/08 12:40/eli-c
Radon 222 precision (±)	144	pCi/L					1	D5072-92	06/04/08 12:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/13/08 20:51/eli-c
Arsenic	0.004	mg/L	D	0.002			1	E200.8	06/13/08 20:51/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/13/08 20:51/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/13/08 20:51/eli-c
Boron	0.1	mg/L		0.1			1	E200.7	06/13/08 20:45/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/13/08 20:51/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/13/08 20:51/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/13/08 20:51/eli-c
Iron	0.66	mg/L		0.03			1	E200.7	06/13/08 20:45/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/13/08 20:51/eli-c
Manganese	0.08	mg/L		0.01			1	E200.8	06/13/08 20:51/eli-c
Mercury	ND	mg/L		0.0001			1	E200.8	06/13/08 20:51/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/17/08 11:48/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/13/08 20:51/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/13/08 20:51/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/13/08 20:51/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 16:39/eli-c
Strontium	0.9	mg/L		0.1			1	E200.8	06/13/08 20:51/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/13/08 20:51/eli-c
Uranium	0.0029	mg/L		0.0003			1	E200.8	06/13/08 20:51/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	06/13/08 20:51/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.86	%					1	A1030 E	07/30/08 00:00/jmh
Anions	15.2	meq/L					1	A1030 E	07/30/08 00:00/jmh
Cations	17.0	meq/L					1	A1030 E	07/30/08 00:00/jmh
Solids, Total Dissolved Calculated	1040	mg/L					1	A1030 E	07/30/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950						1	A1030 E	07/30/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 12 of 12
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080602A-ALK-SEL-W		
Sample ID: LCS1_080602A Alkalinity, Total as CaCO3	Laboratory Control Sample 960	mg/L	5.0	96	90	110			Run: PH_COND1-R_080602A 06/02/08 10:56
Sample ID: MBLK1_080602A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080602A 06/02/08 12:28
Sample ID: R08050406-005AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 242	mg/L	5.0	98	80	120			Run: PH_COND1-R_080602A 06/02/08 11:35
Sample ID: R08050406-005AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 244	mg/L	5.0	100	80	120	0.8	10	Run: PH_COND1-R_080602A 06/02/08 11:38
Method: A2510 B							Batch: 080602_2_COND-PROBE-W		
Sample ID: LCS_COND-1_080602 Conductivity @ 25 C	Laboratory Control Sample 1400	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080602A 06/02/08 14:54
Sample ID: LCS1-1_080602 Conductivity @ 25 C	Laboratory Control Sample 156	umhos/cm	5.0	104	90	110			Run: PH_COND2-R_080602A 06/02/08 14:55
Sample ID: LCS2-1_080602 Conductivity @ 25 C	Laboratory Control Sample 4900	umhos/cm	5.0	98	90	110			Run: PH_COND2-R_080602A 06/02/08 14:57
Sample ID: MBLK-1_080602 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080602A 06/02/08 14:59
Sample ID: R08050427-004A Conductivity @ 25 C	Sample Duplicate 1640	umhos/cm	5.0				3.6	10	Run: PH_COND2-R_080602A 06/02/08 15:13
Method: A2540 C							Batch: 080530A-SLDS-TDS-W		
Sample ID: LCS1_080530A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 220	mg/L	5.0	108	90	110			Run: BAL-4-R_080530A 05/30/08 11:44
Sample ID: MBLK1_080530A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						Run: BAL-4-R_080530A 05/30/08 11:45
Sample ID: R08050419-004AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 1200	mg/L	5.0	107	80	120			Run: BAL-4-R_080530A 05/30/08 12:05
Sample ID: R08050419-004AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 1200	mg/L	5.0	108	80	120	0.2	10	Run: BAL-4-R_080530A 05/30/08 12:07

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: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080604-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND1-R_080604B		06/04/08 00:00		
Oxidation-Reduction Potential	470	mV		100	95	105			
Method: A3114 B							Analytical Run: SUB-C102993		
Sample ID: 288-92-2	Initial Calibration Verification Standard				Run: SUB-C102993		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: 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	
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: 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: A4500-H B							Batch: 080602_1_PH-W		
Sample ID: LCS_pH-1_080602	Laboratory Control Sample				Run: PH_COND2-R_080602B		06/02/08 15:39		
pH	6.93	s.u.	0.010	101	98.55	101.45			
Sample ID: R08060006-001ADUP	Sample Duplicate				Run: PH_COND2-R_080602B		06/02/08 15:55		
pH	7.56	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: 07/30/08
 Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-06-03_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_080603A			06/03/08 11:58
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	98	90	110			
						Run: TECHAA2-R_080603A			06/03/08 12:01
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	98	90	110			
						Run: TECHAA2-R_080603A			06/03/08 12:14
Sample ID: R08050419-001BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.48	mg/L	0.10	104	80	120			
						Run: TECHAA2-R_080603A			06/03/08 13:13
Sample ID: R08050419-001BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.45	mg/L	0.10	90	80	120	7.5	10	
						Run: TECHAA2-R_080603A			06/03/08 13:14
Method: D5072-92							Batch: C_R102221		
Sample ID: C08060087-001IDUP Radon 222	Sample Duplicate 68200	pCi/L	100				6.5	30	
						Run: SUB-C102221			06/04/08 12:40
Sample ID: MB-R102221 Radon 222	Method Blank 9	pCi/L							U
						Run: SUB-C102221			06/04/08 12:40
Sample ID: LCS-R102221 Radon 222	Laboratory Control Sample 302	pCi/L	100	96	70	130			
						Run: SUB-C102221			06/04/08 12:40
Method: E200.7							Batch: C_18769		
Sample ID: MB-18769 Boron Iron	Method Blank ND ND	mg/L mg/L	0.01 0.009						
						Run: SUB-C102679			06/13/08 20:20
Sample ID: LCS3-18769 Boron Iron	Laboratory Control Sample 0.500 2.62	mg/L mg/L	0.10 0.030	100 105	85 85	115 115			
						Run: SUB-C102679			06/13/08 20:24
Sample ID: R08050419-004D Boron Iron	Sample Matrix Spike 0.649 3.32	mg/L mg/L	0.10 0.030	102 107	70 70	130 130			
						Run: SUB-C102679			06/13/08 20:49
Sample ID: R08050419-004D Boron Iron	Sample Matrix Spike Duplicate 0.667 3.44	mg/L mg/L	0.10 0.030	106 111	70 70	130 130	2.7 3.6	20 20	
						Run: SUB-C102679			06/13/08 20:53

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: R08050419

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 15:37			
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: 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			

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: R08050419

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		
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
Sodium	335	mg/L	1.5	95	70	130			
Sample ID: R08050419-003C							Batch: C_R102753		
	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	
Method: E200.8							Batch: C_18760		
Sample ID: MB-18760	Method Blank			Run: SUB-C103038			06/23/08 10:40		
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		
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		
Uranium	0.0124	mg/L	0.00030	99	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18769		
Sample ID: MB-18769	Method Blank		Run: SUB-C102666			06/13/08 20:04			
Antimony	0.0003	mg/L	0.0002						
Arsenic	0.001	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	4E-05						
Chromium	0.002	mg/L	5E-05						
Copper	0.003	mg/L	0.0002						
Lead	2E-05	mg/L							
Manganese	ND	mg/L	3E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	6E-05						
Selenium	0.0002	mg/L	0.0002						
Silver	6E-05	mg/L	4E-05						
Strontium	ND	mg/L	8E-05						
Thallium	ND	mg/L	4E-05						
Uranium	ND	mg/L	3E-05						
Zinc	ND	mg/L	0.0003						
Sample ID: LCS3-18769	Laboratory Control Sample		Run: SUB-C102666			06/13/08 20:11			
Antimony	0.518	mg/L	0.050	103	85	115			
Arsenic	0.503	mg/L	0.0010	100	85	115			
Barium	0.507	mg/L	0.10	101	85	115			
Beryllium	0.252	mg/L	0.010	101	85	115			
Cadmium	0.244	mg/L	0.010	98	85	115			
Chromium	0.491	mg/L	0.050	98	85	115			
Copper	0.493	mg/L	0.010	98	85	115			
Lead	0.496	mg/L	0.050	99	85	115			
Manganese	2.55	mg/L	0.010	102	85	115			
Molybdenum	0.498	mg/L	0.10	100	85	115			
Nickel	0.487	mg/L	0.050	97	85	115			
Selenium	0.497	mg/L	0.0020	99	85	115			
Strontium	0.497	mg/L	0.10	99	85	115			
Thallium	0.495	mg/L	0.10	99	85	115			
Uranium	0.512	mg/L	0.00032	102	85	115			
Zinc	0.477	mg/L	0.010	95	85	115			
Sample ID: R08050419-004D	Sample Matrix Spike		Run: SUB-C102666			06/13/08 20:58			
Antimony	0.536	mg/L	0.050	107	70	130			
Arsenic	0.518	mg/L	0.0010	103	70	130			
Barium	0.527	mg/L	0.10	104	70	130			
Beryllium	0.253	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: 07/30/08
 Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18769		
Sample ID: R08050419-004D	Sample Matrix Spike			Run: SUB-C102666			06/13/08 20:58		
Cadmium	0.248	mg/L	0.010	99	70	130			
Chromium	0.498	mg/L	0.050	99	70	130			
Copper	0.504	mg/L	0.010	100	70	130			
Lead	0.503	mg/L	0.050	101	70	130			
Manganese	2.67	mg/L	0.010	104	70	130			
Molybdenum	0.511	mg/L	0.10	102	70	130			
Nickel	0.492	mg/L	0.050	98	70	130			
Selenium	0.504	mg/L	0.0020	101	70	130			
Silver	0.0351	mg/L	0.010	70	70	130			
Strontium	1.39	mg/L	0.10	96	70	130			
Thallium	0.499	mg/L	0.10	100	70	130			
Uranium	0.525	mg/L	0.00032	104	70	130			
Zinc	0.493	mg/L	0.010	97	70	130			
Sample ID: R08050419-004D	Sample Matrix Spike Duplicate			Run: SUB-C102666			06/13/08 21:25		
Antimony	0.557	mg/L	0.050	111	70	130	3.8	20	
Arsenic	0.518	mg/L	0.0010	103	70	130	0.0	20	
Barium	0.557	mg/L	0.10	110	70	130	5.6	20	
Beryllium	0.233	mg/L	0.010	93	70	130	7.9	20	
Cadmium	0.253	mg/L	0.010	101	70	130	1.8	20	
Chromium	0.492	mg/L	0.050	98	70	130	1.1	20	
Copper	0.509	mg/L	0.010	101	70	130	1.0	20	
Lead	0.517	mg/L	0.050	103	70	130	2.8	20	
Manganese	2.65	mg/L	0.010	103	70	130	0.8	20	
Molybdenum	0.522	mg/L	0.10	104	70	130	2.1	20	
Nickel	0.508	mg/L	0.050	101	70	130	3.3	20	
Selenium	0.504	mg/L	0.0020	101	70	130	0.0	20	
Silver	0.0378	mg/L	0.010	76	70	130	7.5	20	
Strontium	1.42	mg/L	0.10	102	70	130	2.1	20	
Thallium	0.511	mg/L	0.10	102	70	130	2.4	20	
Uranium	0.538	mg/L	0.00032	107	70	130	2.5	20	
Zinc	0.500	mg/L	0.010	98	70	130	1.2	20	
Sample ID: MB-18769	Method Blank			Run: SUB-C102823			06/17/08 14:38		
Antimony	0.0008	mg/L	0.0002						
Arsenic	0.001	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Chromium	0.003	mg/L	5E-05						
Copper	0.0005	mg/L	0.0002						

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: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18769		
Sample ID: MB-18769	Method Blank		Run: SUB-C102823			06/17/08 14:38			
Lead	ND	mg/L	5E-05						
Manganese	8E-05	mg/L	3E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	0.0001	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	6E-05	mg/L	4E-05						
Strontium	ND	mg/L	8E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Zinc	0.003	mg/L	0.0003						
Sample ID: LCS3-18769							06/17/08 14:45		
Laboratory Control Sample		Run: SUB-C102823							
Antimony	0.569	mg/L	0.050	114	85	115			
Arsenic	0.539	mg/L	0.0010	107	85	115			
Barium	0.543	mg/L	0.10	109	85	115			
Beryllium	0.287	mg/L	0.010	115	85	115			
Cadmium	0.267	mg/L	0.010	107	85	115			
Chromium	0.522	mg/L	0.050	104	85	115			
Copper	0.505	mg/L	0.010	101	85	115			
Lead	0.538	mg/L	0.050	108	85	115			
Manganese	2.65	mg/L	0.010	106	85	115			
Molybdenum	0.532	mg/L	0.10	106	85	115			
Nickel	0.507	mg/L	0.050	101	85	115			
Selenium	0.519	mg/L	0.0010	104	85	115			
Silver	0.0477	mg/L	0.010	95	85	115			
Strontium	0.519	mg/L	0.10	104	85	115			
Thallium	0.539	mg/L	0.10	108	85	115			
Uranium	0.576	mg/L	0.00030	115	85	115			
Zinc	0.494	mg/L	0.010	98	85	115			
Sample ID: R08050419-004D							06/17/08 16:46		
Sample Matrix Spike		Run: SUB-C102823							
Antimony	0.568	mg/L	0.050	113	70	130			
Arsenic	0.524	mg/L	0.0010	104	70	130			
Barium	0.566	mg/L	0.10	111	70	130			
Beryllium	0.258	mg/L	0.010	103	70	130			
Cadmium	0.251	mg/L	0.010	101	70	130			
Chromium	0.506	mg/L	0.050	100	70	130			
Copper	0.491	mg/L	0.010	97	70	130			
Lead	0.556	mg/L	0.050	111	70	130			
Manganese	2.60	mg/L	0.010	101	70	130			
Molybdenum	0.568	mg/L	0.10	113	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: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18769		
Sample ID: R08050419-004D	Sample Matrix Spike			Run: SUB-C102823			06/17/08 16:46		
Nickel	0.500	mg/L	0.050	100	70	130			
Selenium	0.483	mg/L	0.0010	97	70	130			
Silver	0.0452	mg/L	0.010	90	70	130			
Strontium	1.48	mg/L	0.10	112	70	130			
Thallium	0.558	mg/L	0.10	112	70	130			
Uranium	0.623	mg/L	0.00030	124	70	130			
Zinc	0.460	mg/L	0.010	90	70	130			
Sample ID: R08050419-004D	Sample Matrix Spike Duplicate			Run: SUB-C102823			06/17/08 16:52		
Antimony	0.580	mg/L	0.050	116	70	130	2.2	20	
Arsenic	0.530	mg/L	0.0010	106	70	130	1.2	20	
Barium	0.582	mg/L	0.10	115	70	130	2.9	20	
Beryllium	0.264	mg/L	0.010	106	70	130	2.3	20	
Cadmium	0.255	mg/L	0.010	102	70	130	1.4	20	
Chromium	0.517	mg/L	0.050	103	70	130	2.1	20	
Copper	0.496	mg/L	0.010	98	70	130	1.1	20	
Lead	0.571	mg/L	0.050	114	70	130	2.7	20	
Manganese	2.70	mg/L	0.010	105	70	130	3.4	20	
Molybdenum	0.579	mg/L	0.10	115	70	130	1.9	20	
Nickel	0.504	mg/L	0.050	100	70	130	0.8	20	
Selenium	0.489	mg/L	0.0010	98	70	130	1.3	20	
Silver	0.0464	mg/L	0.010	93	70	130	2.5	20	
Strontium	1.49	mg/L	0.10	114	70	130	0.7	20	
Thallium	0.573	mg/L	0.10	115	70	130	2.6	20	
Uranium	0.635	mg/L	0.00030	126	70	130	1.9	20	
Zinc	0.467	mg/L	0.010	91	70	130	1.5	20	

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050419

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						
Manganese	ND	mg/L	5E-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			
Manganese	0.0530	mg/L	0.0010	106	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			
Manganese	0.136	mg/L	0.010	100	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	
Manganese	0.138	mg/L	0.010	103	70	130	0.9	20	
Mercury	0.00531	mg/L	0.0010	106	70	130	2.7	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: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R103038		
Sample ID: R08050419-003C		Post Digestion Spike Duplicate			Run: SUB-C103038			06/22/08 20:00	
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	
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			
Manganese	0.0789	mg/L	0.0010	93	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	
Manganese	0.0827	mg/L	0.0010	101	70	130	4.7	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	
Sample ID: C08060096-001CMS4		Post Digestion Spike			Run: SUB-C103038			06/23/08 03:46	
Arsenic	0.0530	mg/L	0.0010	104	70	130			
Cadmium	0.0504	mg/L	0.010	101	70	130			
Copper	0.0519	mg/L	0.010	102	70	130			
Lead	0.0541	mg/L	0.050	108	70	130			
Manganese	0.110	mg/L	0.010	100	70	130			
Mercury	0.00540	mg/L	0.0010	108	70	130			
Silver	0.0124	mg/L	0.010	62	70	130			S
Thorium 232	0.0559	mg/L	0.0010	112	70	130			
Uranium	0.0622	mg/L	0.00030	112	70	130			
Sample ID: C08060096-001CMSD4		Post Digestion Spike Duplicate			Run: SUB-C103038			06/23/08 03:52	
Arsenic	0.0519	mg/L	0.0010	101	70	130	2.1	20	
Cadmium	0.0486	mg/L	0.010	97	70	130	3.6	20	
Copper	0.0504	mg/L	0.010	99	70	130	2.9	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: 07/30/08
Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R103038		
Sample ID: C08060096-001CMSD4	Post Digestion Spike Duplicate				Run: SUB-C103038				06/23/08 03:52
Lead	0.0527	mg/L	0.050	105	70	130	2.7	20	
Manganese	0.108	mg/L	0.010	97	70	130	1.6	20	
Mercury	0.00516	mg/L	0.0010	103	70	130	4.5	20	
Silver	0.0139	mg/L	0.010	70	70	130	12	20	
Thorium 232	0.0541	mg/L	0.0010	108	70	130	3.3	20	
Uranium	0.0595	mg/L	0.00030	107	70	130	4.4	20	
Method: E200.8							Batch: C_R103200		
Sample ID: LRB	Method Blank				Run: SUB-C103200				06/24/08 11:37
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C103200				06/24/08 11:44
Silver	0.0200	mg/L	0.0010	100	85	115			
Sample ID: C08060096-004CMS4	Post Digestion Spike				Run: SUB-C103200				06/24/08 13:59
Silver	0.0131	mg/L	0.010	66	70	130			S
Sample ID: C08060096-004CMSD4	Post Digestion Spike Duplicate				Run: SUB-C103200				06/24/08 14:26
Silver	0.0127	mg/L	0.010	63	70	130	3.6	20	S
Method: E200.8							Analytical Run: SUB-C103282		
Sample ID: METHOD BLANK	Initial Calibration Blank, Instrument Blank								06/25/08 11:35
Uranium	3.5E-06	mg/L	0.0050		0	0			
Sample ID: METHOD BLANK	Initial Calibration Blank, Instrument Blank								06/25/08 16:49
Uranium	5.2E-06	mg/L	0.0050		0	0			
Sample ID: METHOD BLANK	Initial Calibration Blank, Instrument Blank								06/25/08 23:17
Uranium	7.1E-06	mg/L	0.0050		0	0			

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: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R103319		
Sample ID: LRB	Method Blank				Run: SUB-C103319			06/26/08 12:05	
Arsenic	ND	mg/L	6E-05						
Copper	ND	mg/L	7E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C103319			06/26/08 12:12	
Arsenic	0.0490	mg/L	0.0010	98	85	115			
Copper	0.0500	mg/L	0.0010	100	85	115			
Sample ID: C08060581-003AMS	Sample Matrix Spike				Run: SUB-C103319			06/26/08 19:39	
Copper	0.107	mg/L	0.010	100	70	130			
Sample ID: C08060581-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C103319			06/26/08 19:46	
Copper	0.104	mg/L	0.010	95	70	130	2.4	20	
Sample ID: C08060558-002AMS4	Post Digestion Spike				Run: SUB-C103319			06/27/08 03:52	
Arsenic	0.255	mg/L	0.0010	94	70	130			
Copper	0.235	mg/L	0.010	90	70	130			
Sample ID: C08060558-002AMSD4	Post Digestion Spike Duplicate				Run: SUB-C103319			06/27/08 03:59	
Arsenic	0.270	mg/L	0.0010	100	70	130	5.4	20	
Copper	0.246	mg/L	0.010	94	70	130	4.6	20	
Method: E245.1							Batch: C_B_33012		
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: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35068		
Sample ID: LFB0805311606-3	Laboratory Fortified Blank					Run: DIONEX_080531A	05/31/08 19:36		
Chloride	4.62	mg/L	0.50	92	90	110			
Fluoride	1.83	mg/L	0.10	92	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.44	mg/L	0.10	98	90	110			
Sulfate	14.0	mg/L	1.0	93	90	110			
Sample ID: LFB0805311606-4	Laboratory Fortified Blank					Run: DIONEX_080531A	05/31/08 19:52		
Chloride	4.57	mg/L	0.50	91	90	110			
Fluoride	1.81	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.42	mg/L	0.10	97	90	110			
Sulfate	13.9	mg/L	1.0	92	90	110			
Sample ID: R08050407-001BMS	Sample Matrix Spike					Run: DIONEX_080531A	05/31/08 20:25		
Chloride	27.0	mg/L	0.50		80	120			A
Fluoride	2.01	mg/L	0.10	90	80	120			
Nitrogen, Nitrate as N	10.5	mg/L	0.10	73	80	120			SE
Nitrogen, Nitrite as N	2.41	mg/L	0.10	96	80	120			
Sulfate	47.9	mg/L	1.0	74	80	120			S
Sample ID: R08050407-001BMSD	Sample Matrix Spike Duplicate					Run: DIONEX_080531A	05/31/08 20:42		
Chloride	26.9	mg/L	0.50		80	120	0.1	10	A
Fluoride	2.00	mg/L	0.10	90	80	120	0.5	10	
Nitrogen, Nitrate as N	10.5	mg/L	0.10	73	80	120	0.1	10	SE
Nitrogen, Nitrite as N	2.40	mg/L	0.10	96	80	120	0.4	10	
Sulfate	47.8	mg/L	1.0	74	80	120	0.0	10	S
Sample ID: R08050427-002AMS	Sample Matrix Spike					Run: DIONEX_080531A	06/01/08 00:32		
Chloride	241	mg/L	5.4	87	80	120			
Fluoride	92.5	mg/L	0.56	86	80	120			
Nitrogen, Nitrate as N	117	mg/L	1.3	94	80	120			
Nitrogen, Nitrite as N	123	mg/L	2.9	98	80	120			
Sulfate	1100	mg/L	3.4	85	80	120			
Sample ID: R08050427-002AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_080531A	06/01/08 00:48		
Chloride	241	mg/L	5.4	87	80	120	0.3	10	
Fluoride	92.2	mg/L	0.56	85	80	120	0.3	10	
Nitrogen, Nitrate as N	117	mg/L	1.3	93	80	120	0.2	10	
Nitrogen, Nitrite as N	122	mg/L	2.9	98	80	120	0.6	10	
Sulfate	1110	mg/L	3.4	85	80	120	0.4	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.
 E - Estimated value. Result exceeds the instrument upper quantitation limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
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		
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: R08050419-004H	Sample Duplicate				Run: SUB-C102468			06/04/08 12:00	
Gross Gamma	230	pCi/L	20				15	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: 07/30/08
Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_18760		
Sample ID: C08051260-001IMS Radium 226	Sample Matrix Spike 34	pCi/L		108	70	130			06/17/08 09:14
Sample ID: C08051260-001IMSD Radium 226	Sample Matrix Spike Duplicate 32	pCi/L		97	70	130	6.8	21.5	06/17/08 09:14
Sample ID: MB-18760 Radium 226	Method Blank -2	pCi/L							06/17/08 10:48 U
Sample ID: LCS-18760 Radium 226	Laboratory Control Sample 17	pCi/L		111	70	130			06/17/08 10:48
Method: E903.0							Batch: C_RA226-2856		
Sample ID: MB-RA226-2856 Radium 226	Method Blank -0.1	pCi/L							06/19/08 04:13 U
Sample ID: LCS-RA226-2856 Radium 226	Laboratory Control Sample 6.7	pCi/L		87	70	130			06/19/08 04:13
Sample ID: TAP-WATER-MS Radium 226	Sample Matrix Spike 6.9	pCi/L		87	70	130			06/19/08 04:13
Sample ID: TAP-WATER-MSD Radium 226	Sample Matrix Spike Duplicate 6.2	pCi/L		78	70	130	11	24.5	06/19/08 04:13
Method: E907.0							Batch: C_18760		
Sample ID: R08050419-002I Thorium 230	Sample Matrix Spike 22.2	pCi/L	0.20	95	70	130			06/13/08 13:30
Sample ID: R08050419-002I Thorium 230	Sample Matrix Spike Duplicate 22.6	pCi/L	0.20	98	70	130	1.8	30	06/13/08 13:30
Sample ID: LCS-18760 Thorium 230	Laboratory Control Sample 51.6	pCi/L	0.20	106	70	130			06/13/08 13:30
Sample ID: MB-18760 Thorium 230	Method Blank ND	pCi/L							06/13/08 13:30 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: 07/30/08
 Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0547		
Sample ID: C08060097-005IDUP	Sample Duplicate								
Thorium 230	0.140	pCi/L					21	273.4	U
- No LCS, however the tracer recoveries were acceptable for all samples. The batch is approved.									
Sample ID: MB-RA-TH-ISO-0547	Method Blank								
Thorium 230	0.03	pCi/L							U
Method: E909.0M							Batch: C_18760		
Sample ID: C08051260-002IMS	Sample Matrix Spike								
Lead 210	3000	pCi/L	127		70	130			
Sample ID: C08051260-002IMSD	Sample Matrix Spike Duplicate								
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								
Lead 210	ND	pCi/L							U
Sample ID: LCS-R103520	Laboratory Control Sample								
Lead 210	230	pCi/L	98		70	130			
Method: E909.0M							Batch: C_R104574		
Sample ID: C08060289-003FMS	Sample Matrix Spike								
Lead 210	310	pCi/L	106		70	130			
Sample ID: C08060289-003FMSD	Sample Matrix Spike Duplicate								
Lead 210	450	pCi/L	152		70	130	35	30	SR
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MS are acceptable the batch is approved.									
Sample ID: MB-R104574	Method Blank								
Lead 210	-0.3	pCi/L							U
Sample ID: LCS-R104574	Laboratory Control Sample								
Lead 210	47	pCi/L	80		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: 07/30/08
 Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
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



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: **RESER**
 Report Mail Address: **RESER**
 Invoice Address: **RESER**
 Project Name, PWS, Permit, Etc.: **POWERTECH DEWEY BURDOCK**
 Contact Name: **PowerTech Dewey Burdock**
 Phone/Fax: **Cory Foreman 605.342.1225**
 Invoice Contact & Phone: **Cory Foreman 605.342.1225**
 State: **SD**
 Sample Origin: **SD**
 EPA/State Compliance: Yes No
 Sampler: (Please Print) **Earl Kautz**
 Purchase Order: **Earl Kautz**
 Quota/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: AWSVB O
 Air Water Soils/Solids
 Vegetation Bioassay Other

ANALYSIS REQUESTED

As per Quota

SEE ATTACHED
 Normal Turnaround (TAT)

RUSH

Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page

Comments: **All GW**

Shipped by: _____
 Cooler R/Of: _____
 Receipt Temp: **6.1 °C**
 On Ice: Yes No

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Received by Laboratory:		Signature:	
				Date/Time:	Date/Time:	Date/Time:	Date/Time:
1 Dew Burd GW 7002	5-29-08	10:44	N				
2 Dew Burd GW 7	5-29-08	11:10	N				
3 Dew Burd GW 8	5-29-08	11:41	N				
4 Dew Burd GW 62X	5-29-08	15:02	N				
5							
6							
7							
8							
9							
10							

Signature: **Earl Kautz** Date/Time: **5-30-08 8:15**
 Signature: **Earl Kautz** Date/Time: **5-30-08 8:15**
 Signature: **Earl Kautz** Date/Time: **5-30-08 8:15**
 Signature: **Earl Kautz** Date/Time: **5-30-08 8:15**

LABORATORY USE ONLY

Initial: Y N
 Signature: Y N
 Match: Y N
PD2050419-001
002
003
004

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



ANALYTICAL SUMMARY REPORT

July 30, 2008

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

Workorder No.: R08050427 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 5/31/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08050427-001	DewBurd GW18	05/30/08 11:12	05/31/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08050427-002	DewBurd GW42	05/30/08 11:55	05/31/08	Aqueous	Same As Above
R08050427-003	DewBurd GW2	05/30/08 15:21	05/31/08	Aqueous	Same As Above
R08050427-004	DewBurd GW650	05/30/08 16:30	05/31/08	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



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050427-001
 Client Sample ID: DewBurd GW18

Report Date: 07/30/08
 Collection Date: 05/30/08 11:12
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	180	mg/L		5			1	A2320 B	06/02/08 11:53/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	06/02/08 11:53/mb
Bicarbonate as HCO3	219	mg/L		5			1	A2320 B	06/02/08 11:53/mb
Calcium	38.0	mg/L		0.5			2	E200.7	06/16/08 18:00/eli-c
Chloride	12	mg/L		1			1	E300.0	05/31/08 23:59/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	05/31/08 23:59/jmh
Magnesium	13.4	mg/L		0.5			2	E200.7	06/16/08 18:00/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1			1	A4500-NH3 G	06/03/08 13:21/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	05/31/08 23:59/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	05/31/08 23:59/jmh
Potassium	6.9	mg/L		0.5			2	E200.7	06/16/08 18:00/eli-c
Silica	4.2	mg/L		0.5			2	E200.7	06/16/08 18:00/eli-c
Sodium	291	mg/L	D	2			2	E200.7	06/16/08 18:00/eli-c
Sulfate	492	mg/L	D	3			50	E300.0	05/31/08 23:09/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1470	umhos/cm		5.0			1	A2510 B	06/02/08 15:08/tb
Oxidation-Reduction Potential	200	mV					1	A2580 B	06/04/08 00:00/jmh
pH	8.10	s.u.		0.01			1	A4500-H B	06/02/08 15:49/tb
Sodium Adsorption Ratio (SAR)	10	unitless		0.10			1	Calculation	07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	940	mg/L		5			1	A2540 C	06/05/08 14:40/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	06/16/08 18:00/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	06/23/08 03:39/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/16/08 18:00/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/16/08 18:00/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/23/08 03:39/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/16/08 18:00/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/23/08 03:39/eli-c
Iron	ND	mg/L		0.03			2	E200.7	06/16/08 18:00/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/23/08 03:39/eli-c
Manganese	0.06	mg/L		0.01			1	E200.8	06/23/08 03:39/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	06/23/08 03:39/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	06/16/08 18:00/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/16/08 18:00/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	06/20/08 15:38/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/24/08 13:32/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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050427-001
 Client Sample ID: DewBurd GW18

Report Date: 07/30/08
 Collection Date: 05/30/08 11:12
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1 E200.8	06/23/08 03:39/eli-c
Uranium	0.0059	mg/L		0.0003		1 E200.8	06/23/08 03:39/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	06/16/08 18:00/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	06/16/08 18:00/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	06/26/08 02:01/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	06/20/08 10:34/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	27.5	pCi/L				1 E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	4.2	pCi/L				1 E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	4.0	pCi/L				1 E900.0	06/28/08 01:42/eli-c
Gross Beta	4.8	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	3.9	pCi/L				1 E900.0	06/28/08 01:42/eli-c
Lead 210	-1	pCi/L	U			1 E909.0M	06/17/08 06:30/eli-c
Lead 210 MDC	8.2	pCi/L				1 E909.0M	06/17/08 06:30/eli-c
Lead 210 precision (±)	4.9	pCi/L				1 E909.0M	06/17/08 06:30/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	06/16/08 18:00/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1 RMO-3008	06/16/08 18:00/eli-c
Radium 226	2.6	pCi/L				1 E903.0	06/19/08 02:32/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	06/19/08 02:32/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
Gross Gamma	0.0	pCi/L	U	20		1 E901.1	06/17/08 16:05/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	06/17/08 16:05/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	29.6	pCi/L				1 E909.0M	06/13/08 07:15/eli-c
Lead 210 precision (±)	5.7	pCi/L				1 E909.0M	06/13/08 07:15/eli-c
Lead 210 MDC	8.7	pCi/L				1 E909.0M	06/13/08 07:15/eli-c
Polonium 210	1.7	pCi/L		1.0		1 RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	0.93	pCi/L				1 RMO-3008	06/25/08 17:27/eli-c
Radium 226	1.1	pCi/L				1 E903.0	06/19/08 09:39/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: R08050427-001
 Client Sample ID: DewBurd GW18

Report Date: 07/30/08
 Collection Date: 05/30/08 11:12
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	06/19/08 09:39/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	06/19/08 09:39/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	06/16/08 14:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	06/16/08 14:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1210	pCi/L		100			1	D5072-92	06/04/08 12:40/eli-c
Radon 222 precision (±)	92.1	pCi/L					1	D5072-92	06/04/08 12:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/14/08 02:37/eli-c
Arsenic	0.003	mg/L	D	0.002			1	E200.8	06/14/08 02:37/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/14/08 02:37/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/14/08 02:37/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/13/08 21:53/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/14/08 02:37/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/14/08 02:37/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/14/08 02:37/eli-c
Iron	1.11	mg/L		0.03			2	E200.7	06/13/08 21:53/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/14/08 02:37/eli-c
Manganese	0.06	mg/L		0.01			1	E200.8	06/14/08 02:37/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/12/08 10:36/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/14/08 02:37/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/14/08 02:37/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/14/08 02:37/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 22:44/eli-c
Strontium	0.7	mg/L		0.1			1	E200.8	06/14/08 02:37/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/14/08 02:37/eli-c
Uranium	0.0062	mg/L		0.0003			1	E200.8	06/14/08 02:37/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	06/14/08 02:37/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.45	%					1	A1030 E	07/18/08 00:00/jmh
Anions	14.2	meq/L					1	A1030 E	07/18/08 00:00/jmh
Cations	15.8	meq/L					1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	973	mg/L					1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960						1	A1030 E	07/18/08 00:00/jmh

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 3 of 12
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050427-002
 Client Sample ID: DewBurd GW42

Report Date: 07/30/08
 Collection Date: 05/30/08 11:55
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	176	mg/L		5			1	A2320 B	06/02/08 11:56/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	06/02/08 11:56/mb
Bicarbonate as HCO3	215	mg/L		5			1	A2320 B	06/02/08 11:56/mb
Calcium	39.4	mg/L		0.5			2	E200.7	06/16/08 18:04/eli-c
Chloride	11	mg/L		1			1	E300.0	06/01/08 01:04/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	06/01/08 01:04/jmh
Magnesium	13.5	mg/L		0.5			2	E200.7	06/16/08 18:04/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1			1	A4500-NH3 G	06/03/08 13:23/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/01/08 01:04/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/01/08 01:04/jmh
Potassium	6.8	mg/L		0.5			2	E200.7	06/16/08 18:04/eli-c
Silica	4.1	mg/L		0.5			2	E200.7	06/16/08 18:04/eli-c
Sodium	277	mg/L	D	2			2	E200.7	06/16/08 18:04/eli-c
Sulfate	466	mg/L	D	3			50	E300.0	06/01/08 00:15/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1510	umhos/cm		5.0			1	A2510 B	06/02/08 15:09/tb
Oxidation-Reduction Potential	200	mV					1	A2580 B	06/04/08 00:00/jmh
pH	8.05	s.u.		0.01			1	A4500-H B	06/02/08 15:50/tb
Sodium Adsorption Ratio (SAR)	9.7	unitless		0.10			1	Calculation	07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	930	mg/L		5			1	A2540 C	06/05/08 14:41/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	06/16/08 18:04/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	06/23/08 05:48/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/16/08 18:04/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/16/08 18:04/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/23/08 05:48/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/16/08 18:04/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/23/08 05:48/eli-c
Iron	ND	mg/L		0.03			2	E200.7	06/16/08 18:04/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/23/08 05:48/eli-c
Manganese	0.08	mg/L		0.01			2	E200.7	06/16/08 18:04/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	06/23/08 05:48/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	06/16/08 18:04/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/16/08 18:04/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	06/20/08 15:40/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/24/08 13:39/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050427-002
 Client Sample ID: DewBurd GW42

Report Date: 07/30/08
 Collection Date: 05/30/08 11:55
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	06/23/08 05:48/eli-c
Uranium	0.0142	mg/L		0.0003			1	E200.8	06/23/08 05:48/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	06/16/08 18:04/eli-c
Zinc	0.02	mg/L		0.01			1	E200.8	06/23/08 05:48/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	06/26/08 02:08/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	06/20/08 10:36/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	558	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	15.4	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	3.9	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta	159	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	4.4	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta MDC	3.9	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Lead 210	17.8	pCi/L					1	E909.0M	06/17/08 06:30/eli-c
Lead 210 MDC	8.2	pCi/L					1	E909.0M	06/17/08 06:30/eli-c
Lead 210 precision (±)	5.2	pCi/L					1	E909.0M	06/17/08 06:30/eli-c
Polonium 210	1.6	pCi/L		1.0			1	RMO-3008	06/16/08 18:00/eli-c
Polonium 210 precision (±)	1.4	pCi/L					1	RMO-3008	06/16/08 18:00/eli-c
Radium 226	100	pCi/L					1	E903.0	06/19/08 02:32/eli-c
Radium 226 precision (±)	2.0	pCi/L					1	E903.0	06/19/08 02:32/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
Gross Gamma	150	pCi/L		20			1	E901.1	06/17/08 16:05/eli-c
Gross Gamma precision (±)	39	pCi/L					1	E901.1	06/17/08 16:05/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	14.0	pCi/L					1	E909.0M	06/13/08 07:15/eli-c
Lead 210 precision (±)	5.4	pCi/L					1	E909.0M	06/13/08 07:15/eli-c
Lead 210 MDC	8.7	pCi/L					1	E909.0M	06/13/08 07:15/eli-c
Polonium 210	0.3	pCi/L	U	1.0			1	RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	0.50	pCi/L					1	RMO-3008	06/25/08 17:27/eli-c
Radium 226	-0.3	pCi/L	U				1	E903.0	06/19/08 09:39/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: R08050427-002
 Client Sample ID: DewBurd GW42

Report Date: 07/30/08
 Collection Date: 05/30/08 11:55
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	06/19/08 09:39/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	06/19/08 09:39/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	06/16/08 14:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	06/16/08 14:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	219000	pCi/L		100			1	D5072-92	06/04/08 12:40/eli-c
Radon 222 precision (±)	691	pCi/L					1	D5072-92	06/04/08 12:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/14/08 02:43/eli-c
Arsenic	0.004	mg/L	D	0.002			1	E200.8	06/14/08 02:43/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/14/08 02:43/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/14/08 02:43/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/13/08 22:02/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/14/08 02:43/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/14/08 02:43/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/14/08 02:43/eli-c
Iron	0.16	mg/L		0.03			2	E200.7	06/13/08 22:02/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/14/08 02:43/eli-c
Manganese	0.08	mg/L		0.01			1	E200.8	06/14/08 02:43/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/12/08 10:56/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/14/08 02:43/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/14/08 02:43/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/14/08 02:43/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 22:51/eli-c
Strontium	0.7	mg/L		0.1			1	E200.8	06/14/08 02:43/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/14/08 02:43/eli-c
Uranium	0.0149	mg/L		0.0003			1	E200.8	06/14/08 02:43/eli-c
Zinc	0.02	mg/L		0.01			1	E200.8	06/14/08 02:43/eli-c
DATA QUALITY									
A/C Balance (± 5)	6.08	%					1	A1030 E	07/18/08 00:00/jmh
Anions	13.6	meq/L					1	A1030 E	07/18/08 00:00/jmh
Cations	15.3	meq/L					1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	932	mg/L					1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.00						1	A1030 E	07/18/08 00:00/jmh

Report: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 6 of 12
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050427-003
 Client Sample ID: DewBurd GW2

Report Date: 07/30/08
 Collection Date: 05/30/08 15:21
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	212	mg/L		5		1	A2320 B 06/02/08 11:59/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 06/02/08 11:59/mb
Bicarbonate as HCO3	258	mg/L		5		1	A2320 B 06/02/08 11:59/mb
Calcium	57.8	mg/L		0.5		2	E200.7 06/16/08 18:16/eli-c
Chloride	9	mg/L		1		1	E300.0 06/01/08 01:37/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0 06/01/08 01:37/jmh
Magnesium	19.0	mg/L		0.5		2	E200.7 06/16/08 18:16/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH3 G 06/03/08 13:26/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 06/01/08 01:37/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 06/01/08 01:37/jmh
Potassium	11.0	mg/L		0.5		2	E200.7 06/16/08 18:16/eli-c
Silica	4.3	mg/L		0.5		2	E200.7 06/16/08 18:16/eli-c
Sodium	297	mg/L	D	2		2	E200.7 06/16/08 18:16/eli-c
Sulfate	579	mg/L	D	3		50	E300.0 06/01/08 01:21/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1670	umhos/cm		5.0		1	A2510 B 06/02/08 15:10/tb
Oxidation-Reduction Potential	190	mV				1	A2580 B 06/04/08 00:00/jmh
pH	7.92	s.u.		0.01		1	A4500-H B 06/02/08 15:51/tb
Sodium Adsorption Ratio (SAR)	8.7	unitless		0.10		1	Calculation 07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	1100	mg/L		5		1	A2540 C 06/05/08 14:41/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 06/16/08 18:16/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 06/23/08 05:55/eli-c
Barium	ND	mg/L		0.1		2	E200.7 06/16/08 18:16/eli-c
Boron	0.1	mg/L		0.1		2	E200.7 06/16/08 18:16/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 06/23/08 05:55/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 06/16/08 18:16/eli-c
Copper	ND	mg/L		0.01		1	E200.8 06/23/08 05:55/eli-c
Iron	ND	mg/L		0.03		2	E200.7 06/16/08 18:16/eli-c
Lead	ND	mg/L		0.001		1	E200.8 06/23/08 05:55/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8 06/23/08 05:55/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 06/23/08 05:55/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 06/16/08 18:16/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 06/16/08 18:16/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 06/20/08 15:42/eli-c
Silver	ND	mg/L		0.005		1	E200.8 06/24/08 13:46/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.
 Page 7 of 12



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050427-003
 Client Sample ID: DewBurd GW2

Report Date: 07/30/08
 Collection Date: 05/30/08 15:21
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	06/23/08 05:55/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	06/23/08 05:55/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	06/16/08 18:16/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	06/16/08 18:16/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	06/26/08 02:15/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	06/20/08 10:38/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	8.2	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	3.3	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	4.4	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta	10.3	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	2.8	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta MDC	4.4	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Lead 210	3.1	pCi/L	U				1	E909.0M	06/17/08 06:30/eli-c
Lead 210 MDC	8.2	pCi/L					1	E909.0M	06/17/08 06:30/eli-c
Lead 210 precision (±)	4.9	pCi/L					1	E909.0M	06/17/08 06:30/eli-c
Polonium 210	0.1	pCi/L	U	1.0			1	RMO-3008	06/16/08 18:00/eli-c
Polonium 210 precision (±)	0.90	pCi/L					1	RMO-3008	06/16/08 18:00/eli-c
Radium 226	2.1	pCi/L					1	E903.0	06/19/08 02:32/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	06/19/08 02:32/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
Gross Gamma	0.0	pCi/L	U	20			1	E901.1	06/17/08 16:05/eli-c
Gross Gamma precision (±)	20	pCi/L					1	E901.1	06/17/08 16:05/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	1.4	pCi/L	U				1	E909.0M	06/13/08 07:15/eli-c
Lead 210 precision (±)	5.2	pCi/L					1	E909.0M	06/13/08 07:15/eli-c
Lead 210 MDC	8.7	pCi/L					1	E909.0M	06/13/08 07:15/eli-c
Polonium 210	0.0	pCi/L	U	1.0			1	RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	0.31	pCi/L					1	RMO-3008	06/25/08 17:27/eli-c
Radium 226	0.2	pCi/L	U				1	E903.0	06/19/08 09:39/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050427-003
 Client Sample ID: DewBurd GW2

Report Date: 07/30/08
 Collection Date: 05/30/08 15:21
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	06/19/08 09:39/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	06/19/08 09:39/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	06/16/08 14:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	06/16/08 14:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	727	pCi/L		100			1	D5072-92	06/04/08 12:40/eli-c
Radon 222 precision (±)	83.8	pCi/L					1	D5072-92	06/04/08 12:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/14/08 02:50/eli-c
Arsenic	0.004	mg/L	D	0.002			1	E200.8	06/14/08 02:50/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/14/08 02:50/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/14/08 02:50/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/13/08 22:06/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/14/08 02:50/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/14/08 02:50/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/14/08 02:50/eli-c
Iron	1.54	mg/L		0.03			2	E200.7	06/13/08 22:06/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/14/08 02:50/eli-c
Manganese	0.09	mg/L		0.01			1	E200.8	06/14/08 02:50/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/12/08 10:59/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/14/08 02:50/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/14/08 02:50/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/14/08 02:50/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 22:58/eli-c
Strontium	1.8	mg/L		0.1			1	E200.8	06/14/08 02:50/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/14/08 02:50/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	06/14/08 02:50/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	06/14/08 02:50/eli-c
DATA QUALITY									
A/C Balance (± 5)	3.25	%					1	A1030 E	07/18/08 00:00/jmh
Anions	16.6	meq/L					1	A1030 E	07/18/08 00:00/jmh
Cations	17.7	meq/L					1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	1110	mg/L					1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960						1	A1030 E	07/18/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 9 of 12
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050427-004
 Client Sample ID: DewBurd GW650

Report Date: 07/30/08
 Collection Date: 05/30/08 16:30
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	30	mg/L		5			1	A2320 B	06/02/08 12:10/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	06/02/08 12:10/mb
Bicarbonate as HCO3	37	mg/L		5			1	A2320 B	06/02/08 12:10/mb
Calcium	125	mg/L		0.5			2	E200.7	06/16/08 18:24/eli-c
Chloride	16	mg/L		1			1	E300.0	06/01/08 02:10/jmh
Fluoride	0.1	mg/L		0.1			1	E300.0	06/01/08 02:10/jmh
Magnesium	70.6	mg/L		0.5			2	E200.7	06/16/08 18:24/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1			1	A4500-NH3 G	06/03/08 13:30/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/01/08 02:10/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/01/08 02:10/jmh
Potassium	15.6	mg/L		0.5			2	E200.7	06/16/08 18:24/eli-c
Silica	ND	mg/L		0.5			2	E200.7	06/16/08 18:24/eli-c
Sodium	119	mg/L	D	2			2	E200.7	06/16/08 18:24/eli-c
Sulfate	825	mg/L	D	3			50	E300.0	06/01/08 01:54/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1700	umhos/cm		5.0			1	A2510 B	06/02/08 15:11/tb
Oxidation-Reduction Potential	200	mV					1	A2580 B	06/04/08 00:00/jmh
pH	7.30	s.u.		0.01			1	A4500-H B	06/02/08 15:52/tb
Sodium Adsorption Ratio (SAR)	2.1	unitless		0.10			1	Calculation	07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	1400	mg/L		5			1	A2540 C	06/05/08 14:42/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	06/16/08 18:24/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	06/23/08 06:01/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/16/08 18:24/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	06/16/08 18:24/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/23/08 06:01/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/16/08 18:24/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/23/08 06:01/eli-c
Iron	0.10	mg/L		0.03			2	E200.7	06/16/08 18:24/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/23/08 06:01/eli-c
Manganese	0.94	mg/L		0.01			1	E200.8	06/23/08 06:01/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	06/23/08 06:01/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	06/16/08 18:24/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/16/08 18:24/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	06/20/08 15:44/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/24/08 13:52/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08050427-004
 Client Sample ID: DewBurd GW650

Report Date: 07/30/08
 Collection Date: 05/30/08 16:30
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/23/08 06:01/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	06/23/08 06:01/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 18:24/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 18:24/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/26/08 02:21/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 10:40/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	2.1	pCi/L	U			1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	2.9	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	4.6	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta	10.8	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	3.2	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta MDC	5.1	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Lead 210	1.5	pCi/L	U			1	E909.0M	06/17/08 06:30/eli-c
Lead 210 MDC	8.2	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Lead 210 precision (±)	4.9	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Polonium 210	-0.2	pCi/L	U	1.0		1	RMO-3008	06/16/08 18:00/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008	06/16/08 18:00/eli-c
Radium 226	1.2	pCi/L				1	E903.0	06/19/08 02:32/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	06/19/08 02:32/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
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	06/17/08 16:05/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/17/08 16:05/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	6.2	pCi/L	U			1	E909.0M	06/13/08 07:15/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	06/13/08 07:15/eli-c
Lead 210 MDC	8.7	pCi/L				1	E909.0M	06/13/08 07:15/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	07/01/08 14:30/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	07/01/08 14:30/eli-c
Radium 226	-0.02	pCi/L	U			1	E903.0	06/19/08 09:39/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: R08050427-004
 Client Sample ID: DewBurd GW650

Report Date: 07/30/08
 Collection Date: 05/30/08 16:30
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	06/19/08 09:39/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	06/19/08 09:39/eli-c
Thorium 230	0.2	pCi/L	U	0.2			1	E907.0	06/16/08 14:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	06/16/08 14:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	254	pCi/L		100			1	D5072-92	06/04/08 12:40/eli-c
Radon 222 precision (±)	77.0	pCi/L					1	D5072-92	06/04/08 12:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/14/08 02:57/eli-c
Arsenic	0.002	mg/L	D	0.002			1	E200.8	06/14/08 02:57/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/14/08 02:57/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/14/08 02:57/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	06/13/08 22:10/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/14/08 02:57/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/14/08 02:57/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/14/08 02:57/eli-c
Iron	8.99	mg/L		0.03			2	E200.7	06/13/08 22:10/eli-c
Lead	0.002	mg/L		0.001			1	E200.8	06/14/08 02:57/eli-c
Manganese	0.66	mg/L		0.01			2	E200.7	06/13/08 22:10/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/12/08 11:05/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/14/08 02:57/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/14/08 02:57/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/14/08 02:57/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 23:05/eli-c
Strontium	2.6	mg/L		0.1			1	E200.8	06/14/08 02:57/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/14/08 02:57/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	06/14/08 02:57/eli-c
Zinc	0.02	mg/L		0.01			1	E200.8	06/14/08 02:57/eli-c
DATA QUALITY									
A/C Balance (± 5)	-1.40	%					1	A1030 E	07/18/08 00:00/jmh
Anions	18.2	meq/L					1	A1030 E	07/18/08 00:00/jmh
Cations	17.7	meq/L					1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	1190	mg/L					1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.13						1	A1030 E	07/18/08 00:00/jmh

Report: RL - Analyte reporting limit.
 Definitions: 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.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080602A-ALK-SEL-W		
Sample ID: LCS1_080602A Alkalinity, Total as CaCO3	Laboratory Control Sample 960	mg/L	5.0	96	90	110			
									Run: PH_COND1-R_080602A 06/02/08 10:56
Sample ID: MBLK1_080602A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080602A 06/02/08 12:28
Sample ID: R08050406-005AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 242	mg/L	5.0	98	80	120			Run: PH_COND1-R_080602A 06/02/08 11:35
Sample ID: R08050406-005AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 244	mg/L	5.0	100	80	120	0.8	10	Run: PH_COND1-R_080602A 06/02/08 11:38
Method: A2510 B							Batch: 080602_2_COND-PROBE-W		
Sample ID: LCS_COND-1_080602 Conductivity @ 25 C	Laboratory Control Sample 1400	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080602A 06/02/08 14:54
Sample ID: LCS1-1_080602 Conductivity @ 25 C	Laboratory Control Sample 156	umhos/cm	5.0	104	90	110			Run: PH_COND2-R_080602A 06/02/08 14:55
Sample ID: LCS2-1_080602 Conductivity @ 25 C	Laboratory Control Sample 4900	umhos/cm	5.0	98	90	110			Run: PH_COND2-R_080602A 06/02/08 14:57
Sample ID: MBLK-1_080602 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080602A 06/02/08 14:59
Sample ID: R08050427-004A Conductivity @ 25 C	Sample Duplicate 1640	umhos/cm	5.0				3.6	10	Run: PH_COND2-R_080602A 06/02/08 15:13
Method: A2540 C							Batch: 080605A-SLDS-TDS-W		
Sample ID: LCS1_080605A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 220	mg/L	5.0	107	90	110			Run: BAL-4-R_080605A 06/05/08 14:38
Sample ID: MBLK1_080605A Solids, Total Dissolved TDS @ 180 C	Method Blank 4	mg/L	3						Run: BAL-4-R_080605A 06/05/08 14:40
Sample ID: R08060018-007BMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 2100	mg/L	5.0	138	80	120			Run: BAL-4-R_080605A 06/05/08 14:46 S
Sample ID: R08060018-007BMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 2100	mg/L	5.0	148	80	120	0.9	10	Run: BAL-4-R_080605A 06/05/08 14:46 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: 07/30/08
Work Order: R08050427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080604-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND1-R_080604B		06/04/08 00:00		
Oxidation-Reduction Potential	470	mV		100	95	105			
Sample ID: R08050427-004F	Sample Duplicate				Run: PH_COND1-R_080604B		06/04/08 00:00		
Oxidation-Reduction Potential	200	mV					0.5	10	
Method: A3114 B							Analytical Run: SUB-C102993		
Sample ID: 288-92-2	Initial Calibration Verification Standard				Run: SUB-C102993		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
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
Method: A4500-H B							Batch: 080602_1-PH-W		
Sample ID: LCS_pH-1_080602	Laboratory Control Sample				Run: PH_COND2-R_080602B		06/02/08 15:39		
pH	6.93	s.u.	0.010	101	98.55	101.45			
Sample ID: R08060006-001ADUP	Sample Duplicate				Run: PH_COND2-R_080602B		06/02/08 15:55		
pH	7.56	s.u.	0.010				0.1	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: 07/30/08
 Work Order: R08050427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G									Batch: A2008-06-03_2_NH3_01
Sample ID: MBLK-2	Method Blank								Run: TECHAA2-R_080603A 06/03/08 11:58
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank								Run: TECHAA2-R_080603A 06/03/08 12:01
Nitrogen, Ammonia as N	0.24	mg/L	0.10	98	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank								Run: TECHAA2-R_080603A 06/03/08 12:14
Nitrogen, Ammonia as N	0.24	mg/L	0.10	98	90	110			
Sample ID: R08050427-003BMS	Sample Matrix Spike								Run: TECHAA2-R_080603A 06/03/08 13:27
Nitrogen, Ammonia as N	0.57	mg/L	0.10	90	80	120			
Sample ID: R08050427-003BMSD	Sample Matrix Spike Duplicate								Run: TECHAA2-R_080603A 06/03/08 13:28
Nitrogen, Ammonia as N	0.58	mg/L	0.10	94	80	120	1.9	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050427

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: R08050427

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	

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050427

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						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Thorium 232	8E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Zinc	0.0005	mg/L	0.0003						
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			
Manganese	0.0530	mg/L	0.0010	106	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			
Zinc	0.0554	mg/L	0.0010	110	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			
Manganese	0.136	mg/L	0.010	100	70	130			
Mercury	0.00517	mg/L	0.0010	103	70	130			
Thorium 232	0.0561	mg/L	0.0010	112	70	130			
Uranium	0.0558	mg/L	0.00030	111	70	130			
Zinc	0.0511	mg/L	0.010	96	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	
Manganese	0.138	mg/L	0.010	103	70	130	0.9	20	
Mercury	0.00531	mg/L	0.0010	106	70	130	2.7	20	
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.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R103038		
Sample ID: R08050419-003C	Post Digestion Spike Duplicate			Run: SUB-C103038			06/22/08 20:00		
Zinc	0.0522	mg/L	0.010	98	70	130	2.2	20	
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			
Manganese	0.0789	mg/L	0.0010	93	70	130			
Mercury	0.00506	mg/L	0.0010	101	70	130			
Thorium 232	0.0551	mg/L	0.0010	109	70	130			
Uranium	0.0552	mg/L	0.00030	110	70	130			
Zinc	0.142	mg/L	0.0010	71	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	
Manganese	0.0827	mg/L	0.0010	101	70	130	4.7	20	
Mercury	0.00530	mg/L	0.0010	106	70	130	4.7	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	
Zinc	0.150	mg/L	0.0010	86	70	130	5.1	20	
Method: E200.8							Batch: C_R103200		
Sample ID: LRB	Method Blank			Run: SUB-C103200			06/24/08 11:37		
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C103200			06/24/08 11:44		
Silver	0.0200	mg/L	0.0010	100	85	115			
Sample ID: C08060096-004CMS4	Post Digestion Spike			Run: SUB-C103200			06/24/08 13:59		
Silver	0.0131	mg/L	0.010	66	70	130			S
Sample ID: C08060096-004CMSD4	Post Digestion Spike Duplicate			Run: SUB-C103200			06/24/08 14:26		
Silver	0.0127	mg/L	0.010	63	70	130	3.6	20	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: 07/30/08
Work Order: R08050427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35068		
Sample ID: LFB0805311606-3	Laboratory Fortified Blank			Run: DIONEX_080531A			05/31/08 19:36		
Chloride	4.62	mg/L	0.50	92	90	110			
Fluoride	1.83	mg/L	0.10	92	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.44	mg/L	0.10	98	90	110			
Sulfate	14.0	mg/L	1.0	93	90	110			
Sample ID: LFB0805311606-4	Laboratory Fortified Blank			Run: DIONEX_080531A			05/31/08 19:52		
Chloride	4.57	mg/L	0.50	91	90	110			
Fluoride	1.81	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.42	mg/L	0.10	97	90	110			
Sulfate	13.9	mg/L	1.0	92	90	110			
Sample ID: R08050427-002AMS	Sample Matrix Spike			Run: DIONEX_080531A			06/01/08 00:32		
Chloride	241	mg/L	5.4	87	80	120			
Fluoride	92.5	mg/L	0.56	86	80	120			
Nitrogen, Nitrate as N	117	mg/L	1.3	94	80	120			
Nitrogen, Nitrite as N	123	mg/L	2.9	98	80	120			
Sulfate	1100	mg/L	3.4	85	80	120			
Sample ID: R08050427-002AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080531A			06/01/08 00:48		
Chloride	241	mg/L	5.4	87	80	120	0.3	10	
Fluoride	92.2	mg/L	0.56	85	80	120	0.3	10	
Nitrogen, Nitrate as N	117	mg/L	1.3	93	80	120	0.2	10	
Nitrogen, Nitrite as N	122	mg/L	2.9	98	80	120	0.6	10	
Sulfate	1110	mg/L	3.4	85	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: 07/30/08
 Work Order: R08050427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0466		
Sample ID: MB-GrAB-0466	Method Blank								
	Gross Alpha								
	-0.4	pCi/L							U
	Gross Beta								U
	-0.5	pCi/L							
Sample ID: C08060305-001AMS	Sample Matrix Spike								
	Gross Alpha								
	150	pCi/L	105		70	130			
Sample ID: C08060305-001AMSD	Sample Matrix Spike Duplicate								
	Gross Alpha								
	130	pCi/L	97		70	130	8.2	16.6	
Sample ID: UNAT-GrAB-0466	Laboratory Control Sample								
	Gross Alpha								
	130	pCi/L	97		70	130			
Sample ID: C08060305-001AMS	Sample Matrix Spike								
	Gross Beta								
	110	pCi/L	120		70	130			
Sample ID: C08060305-001AMSD	Sample Matrix Spike Duplicate								
	Gross Beta								
	110	pCi/L	115		70	130	5.0	15.8	
Method: E903.0							Batch: C_RA226-2856		
Sample ID: MB-RA226-2856	Method Blank								
	Radium 226								
	-0.1	pCi/L							U
Sample ID: LCS-RA226-2856	Laboratory Control Sample								
	Radium 226								
	6.7	pCi/L	87		70	130			
Sample ID: TAP-WATER-MS	Sample Matrix Spike								
	Radium 226								
	6.9	pCi/L	87		70	130			
Sample ID: TAP-WATER-MSD	Sample Matrix Spike Duplicate								
	Radium 226								
	6.2	pCi/L	78		70	130	11	24.5	
Method: E907.0							Batch: C_R103514		
Sample ID: C08060096-003HMS	Sample Matrix Spike								
	Thorium 230								
	12.4	pCi/L	0.20	102	70	130			
Sample ID: C08060096-003HMSD	Sample Matrix Spike Duplicate								
	Thorium 230								
	11.0	pCi/L	0.20	90	70	130	12	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: 07/30/08
Work Order: R08050427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R103750		
Sample ID: R08050356-004K Polonium 210	Sample Matrix Spike 180	pCi/L	1.0	109	70	130			07/01/08 14:30
Sample ID: R08050356-004K Polonium 210	Sample Matrix Spike Duplicate 170	pCi/L	1.0	101	70	130	8.2	30	07/01/08 14:30

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

Page ___ of ___

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPER		Project Name, PWS, Permit, Etc.: Power Tech Dewey Burdock		Sample Origin: State: SD		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>			
Report Mail Address: RESPER		Contact Name: Cory Foreman & Reperson		Phone/Fax:		Sampler (Please Print): Eric Larson			
Invoice Address:		Invoice Contact & Phone:		Purchase Order:		Quote/Bottle Order:			
Special Report/Formats - EI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> GSA <input type="checkbox"/> POT/WWTP <input type="checkbox"/> Format: _____ <input type="checkbox"/> State: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: _____ <input type="checkbox"/> NELAC				Number of Containers Sample Type: AWS V B O Air Water Soils/Solids Vegetation Bioassay Other				Shipped By: Cooler Id#: _____ Receipt Temp: 4.2 °C On Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody Seal: Y N Intact: Y N Signature Match: Y N	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)				Collection Date		Collection Time			
1 DewBurd GW 18				5/30/08		11:12			
2 DewBurd GW 42				5/30/08		11:55			
3 DewBurd GW 2				5/30/08		15:21			
4 DewBurd GW 650				5/30/08		16:30			
5				5/30/08		16:30			
6				5/30/08		16:30			
7				5/30/08		16:30			
8				5/30/08		16:30			
9				5/30/08		16:30			
10				5/30/08		16:30			
Requisitioned by (print): Eric Larson		Date/Time: 5-31-08 10:20		Signature: [Signature]		Received by (print): J. Hartman			
Requisitioned by (print): Eric Larson		Date/Time: 5-31-08 15:15		Signature: [Signature]		Received by (print): J. Hartman			
Sample Disposal: Return to Client: _____		Lab Disposal: _____		Received by Laboratory: _____		Date/Time: _____			

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



ANALYTICAL SUMMARY REPORT

August 15, 2008

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

Workorder No.: R08060210 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 6/11/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08060210-001	DewBurd GW680	06/10/08 10:50	06/11/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08060210-002	DewBurd GW688	06/10/08 16:37	06/11/08	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.

Report Approved By: 

Linda Larson
Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060210-001
 Client Sample ID: DewBurd GW680

Report Date: 08/15/08
 Collection Date: 06/10/08 10:50
 Date Received: 06/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	188	mg/L		5			1	A2320 B	06/12/08 14:28/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	06/12/08 14:28/mb
Bicarbonate as HCO3	229	mg/L		5			1	A2320 B	06/12/08 14:28/mb
Calcium	415	mg/L		0.5			2	E200.7	06/26/08 15:14/eli-c
Chloride	12	mg/L		1			1	E300.0	06/12/08 18:45/eli-g
Fluoride	0.3	mg/L		0.1			1	E300.0	06/12/08 18:45/eli-g
Magnesium	134	mg/L		0.5			2	E200.7	06/26/08 15:14/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	06/19/08 10:56/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/12/08 18:45/eli-g
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/12/08 18:45/eli-g
Potassium	19.3	mg/L		0.5			2	E200.7	06/26/08 15:14/eli-c
Silica	4.4	mg/L		0.5			2	E200.7	06/26/08 15:14/eli-c
Sodium	134	mg/L	D	2			2	E200.7	06/26/08 15:14/eli-c
Sulfate	1410	mg/L		1			10	E300.0	06/12/08 18:19/eli-g
PHYSICAL PROPERTIES									
Conductivity @ 25 C	3060	umhos/cm		5.0			1	A2510 B	06/18/08 09:34/tb
Oxidation-Reduction Potential	130	mV					1	A2580 B	06/17/08 00:00/jmh
pH	7.32	s.u.		0.01			1	A4500-H B	06/16/08 14:02/tb
Sodium Adsorption Ratio (SAR)	1.5	unitless		0.10			1	Calculation	07/30/08 11:38/ADM
Solids, Total Dissolved TDS @ 180 C	2500	mg/L		5			1	A2540 C	06/13/08 12:03/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	06/26/08 15:14/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	07/04/08 01:47/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/26/08 15:14/eli-c
Boron	0.2	mg/L		0.1			2	E200.7	06/26/08 15:14/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/04/08 01:47/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/26/08 15:14/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/04/08 01:47/eli-c
Iron	0.06	mg/L		0.03			2	E200.7	06/26/08 15:14/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/04/08 01:47/eli-c
Manganese	0.49	mg/L		0.01			2	E200.7	06/26/08 15:14/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/04/08 01:47/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	06/26/08 15:14/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/26/08 15:14/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	06/20/08 16:14/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/07/08 11:40/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060210-001
 Client Sample ID: DewBurd GW680

Report Date: 08/15/08
 Collection Date: 06/10/08 10:50
 Date Received: 06/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	07/04/08 01:47/eli-c
Uranium	0.0227	mg/L		0.0003			1	E200.8	07/04/08 01:47/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	06/26/08 15:14/eli-c
Zinc	0.01	mg/L		0.01			2	E200.7	06/26/08 15:14/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	07/02/08 07:04/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	06/20/08 11:11/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	4370	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Gross Alpha precision (±)	60.4	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Gross Alpha MDC	7.8	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Gross Beta	1320	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Gross Beta precision (±)	17.9	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Gross Beta MDC	9.5	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Lead 210	15.7	pCi/L					1	E909.0M	06/25/08 09:15/eli-c
Lead 210 MDC	5.9	pCi/L					1	E909.0M	06/25/08 09:15/eli-c
Lead 210 precision (±)	3.8	pCi/L					1	E909.0M	06/25/08 09:15/eli-c
Polonium 210	0.4	pCi/L	U	1.0			1	RMO-3008	06/30/08 12:00/eli-c
Polonium 210 precision (±)	0.70	pCi/L					1	RMO-3008	06/30/08 12:00/eli-c
Radium 226	1410	pCi/L					1	E903.0	07/15/08 21:51/eli-c
Radium 226 precision (±)	10.9	pCi/L					1	E903.0	07/15/08 21:51/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/08/08 22:11/eli-c
Thorium 230 precision (±)	0.04	pCi/L					1	E907.0	07/08/08 22:11/eli-c
Gross Gamma	5700	pCi/L		20			1	E901.1	06/17/08 16:05/eli-c
Gross Gamma precision (±)	390	pCi/L					1	E901.1	06/17/08 16:05/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	12.0	pCi/L					1	E909.0M	07/08/08 09:00/eli-c
Lead 210 precision (±)	6.5	pCi/L					1	E909.0M	07/08/08 09:00/eli-c
Lead 210 MDC	10.6	pCi/L					1	E909.0M	07/08/08 09:00/eli-c
Polonium 210	1.3	pCi/L		1.0			1	RMO-3008	06/30/08 12:00/eli-c
Polonium 210 precision (±)	0.57	pCi/L					1	RMO-3008	06/30/08 12:00/eli-c
Radium 226	4.4	pCi/L					1	E903.0	07/08/08 09:54/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060210-001
 Client Sample ID: DewBurd GW680

Report Date: 08/15/08
 Collection Date: 06/10/08 10:50
 Date Received: 06/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.6	pCi/L					1	E903.0	07/08/08 09:54/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	07/08/08 09:54/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	07/01/08 19:21/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	07/01/08 19:21/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	91700	pCi/L		100			1	D5072-92	06/16/08 16:08/eli-c
Radon 222 precision (±)	525	pCi/L					1	D5072-92	06/16/08 16:08/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/27/08 05:40/eli-c
Arsenic	0.005	mg/L	D	0.002			1	E200.8	06/27/08 05:40/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/18/08 23:09/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/27/08 05:40/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	06/18/08 23:09/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/27/08 05:40/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/18/08 23:09/eli-c
Copper	ND	mg/L		0.01			2	E200.7	06/18/08 23:09/eli-c
Iron	0.28	mg/L		0.03			2	E200.7	06/18/08 23:09/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/27/08 05:40/eli-c
Manganese	0.48	mg/L		0.01			2	E200.7	06/18/08 23:09/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/21/08 10:32/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	06/18/08 23:09/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/18/08 23:09/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/27/08 05:40/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/07/08 19:27/eli-c
Strontium	8.1	mg/L		0.1			2	E200.7	06/18/08 23:09/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/27/08 05:40/eli-c
Uranium	0.0244	mg/L		0.0003			1	E200.8	06/27/08 05:40/eli-c
Zinc	0.01	mg/L		0.01			2	E200.7	06/18/08 23:09/eli-c
DATA QUALITY									
A/C Balance (± 5)	6.54	%					1	A1030 E	07/30/08 00:00/jmh
Anions	33.4	meq/L					1	A1030 E	07/30/08 00:00/jmh
Cations	38.1	meq/L					1	A1030 E	07/30/08 00:00/jmh
Solids, Total Dissolved Calculated	2250	mg/L					1	A1030 E	07/30/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.10						1	A1030 E	07/30/08 00:00/jmh

Report: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 3 of 6
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060210-002
 Client Sample ID: DewBurd GW688

Report Date: 08/15/08
 Collection Date: 06/10/08 16:37
 Date Received: 06/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	100	mg/L		5			1	A2320 B	06/12/08 14:57/mb
Carbonate as CO3	7	mg/L		5			1	A2320 B	06/12/08 14:57/mb
Bicarbonate as HCO3	107	mg/L		5			1	A2320 B	06/12/08 14:57/mb
Calcium	34.1	mg/L		0.5			2	E200.7	06/26/08 15:26/eli-c
Chloride	11	mg/L		1			1	E300.0	06/12/08 19:10/eli-g
Fluoride	0.5	mg/L		0.1			1	E300.0	06/12/08 19:10/eli-g
Magnesium	16.6	mg/L		0.5			2	E200.7	06/26/08 15:26/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1			1	A4500-NH3 G	06/19/08 10:57/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/12/08 19:10/eli-g
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/12/08 19:10/eli-g
Potassium	12.5	mg/L		0.5			2	E200.7	06/26/08 15:26/eli-c
Silica	3.7	mg/L		0.5			2	E200.7	06/26/08 15:26/eli-c
Sodium	195	mg/L	D	2			2	E200.7	06/26/08 15:26/eli-c
Sulfate	398	mg/L		1			5	E300.0	06/12/08 18:57/eli-g
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1260	umhos/cm		5.0			1	A2510 B	06/18/08 09:38/tb
Oxidation-Reduction Potential	180	mV					1	A2580 B	06/17/08 00:00/jmh
pH	8.82	s.u.		0.01			1	A4500-H B	06/16/08 14:03/tb
Sodium Adsorption Ratio (SAR)	6.9	unitless		0.10			1	Calculation	07/30/08 11:38/ADM
Solids, Total Dissolved TDS @ 180 C	740	mg/L		5			1	A2540 C	06/13/08 12:04/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	06/26/08 15:26/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	07/04/08 02:00/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/26/08 15:26/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/26/08 15:26/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/04/08 02:00/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/26/08 15:26/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/04/08 02:00/eli-c
Iron	0.04	mg/L		0.03			2	E200.7	06/26/08 15:26/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/04/08 02:00/eli-c
Manganese	0.02	mg/L		0.01			2	E200.7	06/26/08 15:26/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/04/08 02:00/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	06/26/08 15:26/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/26/08 15:26/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	06/20/08 16:16/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/07/08 11:47/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060210-002
 Client Sample ID: DewBurd GW688

Report Date: 08/15/08
 Collection Date: 06/10/08 16:37
 Date Received: 06/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	07/04/08 02:00/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	07/04/08 02:00/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	06/26/08 15:26/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	06/26/08 15:26/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	07/02/08 07:08/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	06/20/08 11:13/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	17.3	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Gross Alpha precision (±)	2.7	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Gross Alpha MDC	2.6	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Gross Beta	17.1	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Gross Beta precision (±)	2.2	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Gross Beta MDC	3.2	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Lead 210	-0.5	pCi/L	U				1	E909.0M	06/25/08 09:15/eli-c
Lead 210 MDC	5.9	pCi/L					1	E909.0M	06/25/08 09:15/eli-c
Lead 210 precision (±)	3.5	pCi/L					1	E909.0M	06/25/08 09:15/eli-c
Polonium 210	0.0	pCi/L	U	1.0			1	RMO-3008	06/30/08 12:00/eli-c
Polonium 210 precision (±)	0.50	pCi/L					1	RMO-3008	06/30/08 12:00/eli-c
Radium 226	2.5	pCi/L					1	E903.0	07/15/08 23:27/eli-c
Radium 226 precision (±)	0.5	pCi/L					1	E903.0	07/15/08 23:27/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/09/08 12:34/eli-c
Thorium 230 precision (±)	0.06	pCi/L					1	E907.0	07/09/08 12:34/eli-c
Gross Gamma	0.0	pCi/L	U	20			1	E901.1	06/17/08 16:05/eli-c
Gross Gamma precision (±)	20	pCi/L					1	E901.1	06/17/08 16:05/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	4.8	pCi/L	U				1	E909.0M	07/08/08 09:00/eli-c
Lead 210 precision (±)	6.4	pCi/L					1	E909.0M	07/08/08 09:00/eli-c
Lead 210 MDC	10.6	pCi/L					1	E909.0M	07/08/08 09:00/eli-c
Polonium 210	0.2	pCi/L	U	1.0			1	RMO-3008	06/30/08 12:00/eli-c
Polonium 210 precision (±)	0.31	pCi/L					1	RMO-3008	06/30/08 12:00/eli-c
Radium 226	-0.3	pCi/L	U				1	E903.0	07/08/08 09:54/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060210-002
 Client Sample ID: DewBurd GW688

Report Date: 08/15/08
 Collection Date: 06/10/08 16:37
 Date Received: 06/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.1	pCi/L					1	E903.0	07/08/08 09:54/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	07/08/08 09:54/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	07/01/08 19:21/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	07/01/08 19:21/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	749	pCi/L		100			1	D5072-92	06/16/08 16:08/eli-c
Radon 222 precision (±)	105	pCi/L					1	D5072-92	06/16/08 16:08/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/27/08 05:47/eli-c
Arsenic	ND	mg/L	D	0.002			1	E200.8	06/27/08 05:47/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/18/08 23:13/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/27/08 05:47/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/18/08 23:13/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/27/08 05:47/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/18/08 23:13/eli-c
Copper	ND	mg/L		0.01			2	E200.7	06/18/08 23:13/eli-c
Iron	0.15	mg/L		0.03			2	E200.7	06/18/08 23:13/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/27/08 05:47/eli-c
Manganese	0.01	mg/L		0.01			2	E200.7	06/18/08 23:13/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/23/08 19:47/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	06/18/08 23:13/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/18/08 23:13/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/27/08 05:47/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/07/08 19:34/eli-c
Strontium	1.1	mg/L		0.1			2	E200.7	06/18/08 23:13/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/27/08 05:47/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	06/27/08 05:47/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	06/18/08 23:13/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.73	%					1	A1030 E	07/30/08 00:00/jmh
Anions	10.6	meq/L					1	A1030 E	07/30/08 00:00/jmh
Cations	11.9	meq/L					1	A1030 E	07/30/08 00:00/jmh
Solids, Total Dissolved Calculated	738	mg/L					1	A1030 E	07/30/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.01						1	A1030 E	07/30/08 00:00/jmh

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Page 6 of 6

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

D - RL increased due to sample matrix interference.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080612A-ALK-SEL-W		
Sample ID: LCS1_080612A Alkalinity, Total as CaCO ₃	Laboratory Control Sample 936	mg/L	5.0	94	90	110			06/12/08 12:38
Sample ID: MBLK1_080612A Alkalinity, Total as CaCO ₃	Method Blank ND	mg/L	3						06/12/08 12:40
Sample ID: R08060199-002AMS Alkalinity, Total as CaCO ₃	Sample Matrix Spike 304	mg/L	5.0	106	80	120			06/12/08 14:17
Sample ID: R08060199-002AMSD Alkalinity, Total as CaCO ₃	Sample Matrix Spike Duplicate 308	mg/L	5.0	109	80	120	1.3	10	06/12/08 14:22
Method: A2510 B							Batch: 080618_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080618 Conductivity @ 25 C	Laboratory Control Sample 1390	umhos/cm	5.0	98	90	110			06/18/08 09:20
Sample ID: LCS1-1_080618 Conductivity @ 25 C	Laboratory Control Sample 150	umhos/cm	5.0	100	90	110			06/18/08 09:21
Sample ID: LCS2-1_080618 Conductivity @ 25 C	Laboratory Control Sample 5060	umhos/cm	5.0	101	90	110			06/18/08 09:23
Sample ID: MBLK-1_080618 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						06/18/08 09:24
Sample ID: R08060210-002ADUP Conductivity @ 25 C	Sample Duplicate 1210	umhos/cm	5.0				4.0	10	06/18/08 09:38

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: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 080613A-SLDS-TDS-W		
Sample ID: LCS1_080613A	Laboratory Control Sample					Run: BAL-4-R_080616B			06/13/08 11:48
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	109	90	110			
Sample ID: MBLK1_080613A	Method Blank					Run: BAL-4-R_080616B			06/13/08 11:36
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R08060199-001AMS	Sample Matrix Spike					Run: BAL-4-R_080616B			06/13/08 11:59
Solids, Total Dissolved TDS @ 180 C	1200	mg/L	5.0	110	80	120			
Sample ID: R08060199-001AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080616B			06/13/08 12:00
Solids, Total Dissolved TDS @ 180 C	1200	mg/L	5.0	115	80	120	0.9	10	
Sample ID: R08060228-004AMS	Sample Matrix Spike					Run: BAL-4-R_080616B			06/13/08 12:06
Solids, Total Dissolved TDS @ 180 C	2000	mg/L	5.0	107	80	120			
Sample ID: R08060228-004AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080616B			06/13/08 12:07
Solids, Total Dissolved TDS @ 180 C	2000	mg/L	5.0	113	80	120	0.6	10	
Method: A2580 B							Batch: 080617-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample					Run: PH_COND1-R_080617A			06/17/08 00:00
Oxidation-Reduction Potential	470	mV		99	95	105			
Sample ID: R08060210-002F	Sample Duplicate					Run: PH_COND1-R_080617A			06/17/08 00:00
Oxidation-Reduction Potential	180	mV					0.7	10	
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: 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.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/15/08
 Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080620C		
Sample ID: MBLK Selenium	Method Blank ND	mg/L	6E-05						
					Run: SUB-C103018			06/20/08 15:10	
Sample ID: 288-92-2 Selenium	Laboratory Control Sample 0.049	mg/L	0.0010	99	90	110			
					Run: SUB-C103018			06/20/08 15:14	
Sample ID: C08060097-001HMS Selenium	Sample Matrix Spike 0.044	mg/L	0.0010	87	85	115			
					Run: SUB-C103018			06/20/08 16:20	
Sample ID: C08060097-001HMSD Selenium	Sample Matrix Spike Duplicate 0.044	mg/L	0.0010	89	85	115	1.8	10	
					Run: SUB-C103018			06/20/08 16:22	
Method: A4500-H B							Batch: 080616_3_PH-W		
Sample ID: LCS_pH-1_080616 pH	Laboratory Control Sample 6.90	s.u.	0.010	101	98.55	101.45			
					Run: PH_COND2-R_080616B			06/16/08 13:55	
Sample ID: R08060241-001BDUP pH	Sample Duplicate 7.46	s.u.	0.010				0.1	1.25	
					Run: PH_COND2-R_080616B			06/16/08 14:05	
Method: A4500-NH3 G							Batch: A2008-06-19_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
					Run: TECHAA2-R_080619A			06/19/08 10:10	
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.23	mg/L	0.10	92	90	110			
					Run: TECHAA2-R_080619A			06/19/08 10:12	
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.22	mg/L	0.10	89	90	110			S
					Run: TECHAA2-R_080619A			06/19/08 10:22	
Sample ID: R08060199-003CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.25	mg/L	0.10	101	80	120			
					Run: TECHAA2-R_080619A			06/19/08 10:54	
Sample ID: R08060199-003CMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.24	mg/L	0.10	94	80	120	7.0	10	
					Run: TECHAA2-R_080619A			06/19/08 10:55	
Method: D5072-92							Batch: C_R102830		
Sample ID: MB-R102830 Radon 222	Method Blank 7	pCi/L							
					Run: SUB-C102830			06/16/08 16:08	
Sample ID: LCS-R102830 Radon 222	Laboratory Control Sample 302	pCi/L	100	97	70	130			
					Run: SUB-C102830			06/16/08 16:08	

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: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18864		
Sample ID: MB-18864	Method Blank		Run: SUB-C102898			06/18/08 21:07			
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	0.01	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Strontium	ND	mg/L	0.0004						
Zinc	0.003	mg/L	0.001						
Sample ID: LCS3-18864	Laboratory Control Sample		Run: SUB-C102898			06/18/08 21:11			
Barium	0.501	mg/L	0.10	100	85	115			
Boron	0.508	mg/L	0.10	102	85	115			
Chromium	0.505	mg/L	0.050	101	85	115			
Copper	0.506	mg/L	0.010	101	85	115			
Iron	2.71	mg/L	0.030	108	85	115			
Manganese	2.54	mg/L	0.010	102	85	115			
Molybdenum	0.498	mg/L	0.10	100	85	115			
Nickel	0.502	mg/L	0.050	100	85	115			
Strontium	0.499	mg/L	0.10	100	85	115			
Zinc	0.513	mg/L	0.010	102	85	115			
Sample ID: R08060210-002D	Sample Matrix Spike		Run: SUB-C102898			06/18/08 23:17			
Barium	0.522	mg/L	0.10	101	70	130			
Boron	0.557	mg/L	0.10	103	70	130			
Chromium	0.513	mg/L	0.050	103	70	130			
Copper	0.519	mg/L	0.010	104	70	130			
Iron	2.91	mg/L	0.030	110	70	130			
Manganese	2.58	mg/L	0.010	102	70	130			
Molybdenum	0.512	mg/L	0.10	102	70	130			
Nickel	0.499	mg/L	0.050	100	70	130			
Strontium	1.60	mg/L	0.10	99	70	130			
Zinc	0.525	mg/L	0.010	104	70	130			
Sample ID: R08060210-002D	Sample Matrix Spike Duplicate		Run: SUB-C102898			06/18/08 23:21			
Barium	0.529	mg/L	0.10	103	70	130	1.3	20	
Boron	0.542	mg/L	0.10	100	70	130	2.7	20	
Chromium	0.499	mg/L	0.050	100	70	130	2.7	20	
Copper	0.521	mg/L	0.010	104	70	130	0.4	20	
Iron	2.92	mg/L	0.030	111	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: 08/15/08
Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18864		
Sample ID: R08060210-002D	Sample Matrix Spike Duplicate			Run: SUB-C102898			06/18/08 23:21		
Manganese	2.65	mg/L	0.010	105	70	130	2.7	20	
Molybdenum	0.511	mg/L	0.10	102	70	130	0.1	20	
Nickel	0.480	mg/L	0.050	96	70	130	3.8	20	
Strontium	1.67	mg/L	0.10	113	70	130	4.3	20	
Zinc	0.512	mg/L	0.010	101	70	130	2.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/15/08
 Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.7							Batch: C_R103332			
Sample ID: MB-080626A	Method Blank		Run: SUB-C103332				06/26/08 15:06			
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							
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							
Vanadium	ND	mg/L	0.003							
Zinc	ND	mg/L	0.002							
Sample ID: LFB-080626A	Laboratory Fortified Blank		Run: SUB-C103332				06/26/08 15:10			
Silica	0.39	mg/L	0.10	98	85	125				
Aluminum	1.0	mg/L	0.10	103	85	125				
Barium	0.99	mg/L	0.10	99	85	125				
Boron	1.0	mg/L	0.10	102	85	125				
Calcium	54	mg/L	0.50	107	85	125				
Chromium	1.0	mg/L	0.050	102	85	125				
Iron	1.1	mg/L	0.030	105	85	125				
Magnesium	54	mg/L	0.50	109	85	125				
Manganese	1.0	mg/L	0.010	100	85	125				
Molybdenum	0.99	mg/L	0.10	99	85	125				
Nickel	1.00	mg/L	0.050	100	85	125				
Potassium	47	mg/L	0.50	94	85	125				
Sodium	52	mg/L	0.77	104	85	125				
Vanadium	1.0	mg/L	0.10	101	85	125				
Zinc	1.0	mg/L	0.010	102	85	125				
Sample ID: R08060210-001C	Sample Matrix Spike		Run: SUB-C103332				06/26/08 15:18			
Aluminum	2.07	mg/L	0.10	104	70	130				
Barium	2.11	mg/L	0.10	105	70	130				
Boron	2.30	mg/L	0.10	107	70	130				
Chromium	2.14	mg/L	0.050	107	70	130				
Iron	2.22	mg/L	0.030	108	70	130				
Manganese	2.59	mg/L	0.010	105	70	130				
Molybdenum	2.06	mg/L	0.10	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: 08/15/08
 Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103332		
Sample ID: R08060210-001C	Sample Matrix Spike			Run: SUB-C103332			06/26/08 15:18		
Nickel	2.11	mg/L	0.050	105	70	130			
Vanadium	2.22	mg/L	0.10	110	70	130			
Zinc	2.15	mg/L	0.010	107	70	130			
Calcium	511	mg/L	1.0		70	130			A
Magnesium	242	mg/L	1.0	108	70	130			
Potassium	108	mg/L	1.0	88	70	130			
Silica	4.99	mg/L	0.10		70	130			A
Sodium	238	mg/L	1.5	103	70	130			
Sample ID: R08060210-001C	Sample Matrix Spike Duplicate			Run: SUB-C103332			06/26/08 15:22		
Aluminum	2.19	mg/L	0.10	110	70	130	5.6	20	
Barium	2.13	mg/L	0.10	106	70	130	1.0	20	
Boron	2.30	mg/L	0.10	107	70	130	0.2	20	
Chromium	2.17	mg/L	0.050	108	70	130	1.2	20	
Iron	2.26	mg/L	0.030	110	70	130	1.7	20	
Manganese	2.59	mg/L	0.010	105	70	130	0.0	20	
Molybdenum	2.06	mg/L	0.10	103	70	130	0.0	20	
Nickel	2.14	mg/L	0.050	107	70	130	1.7	20	
Vanadium	2.21	mg/L	0.10	110	70	130	0.3	20	
Zinc	2.16	mg/L	0.010	108	70	130	0.7	20	
Calcium	517	mg/L	1.0		70	130	1.2	20	A
Magnesium	242	mg/L	1.0	108	70	130	0.2	20	
Potassium	108	mg/L	1.0	89	70	130	0.6	20	
Silica	4.99	mg/L	0.10		70	130	0.0	20	A
Sodium	238	mg/L	1.5	104	70	130	0.3	20	

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18864		
Sample ID: MB-18864	Method Blank			Run: SUB-C103319			06/27/08 04:06		
Antimony	ND	mg/L	0.0002						
Arsenic	0.001	mg/L	5E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Lead	0.0001	mg/L							
Selenium	ND	mg/L	0.0002						
Silver	0.0001	mg/L	4E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18864	Laboratory Control Sample			Run: SUB-C103319			06/27/08 04:12		
Antimony	0.556	mg/L	0.050	111	85	115			
Arsenic	0.513	mg/L	0.0010	102	85	115			
Beryllium	0.253	mg/L	0.010	101	85	115			
Cadmium	0.255	mg/L	0.010	102	85	115			
Lead	0.537	mg/L	0.050	107	85	115			
Selenium	0.497	mg/L	0.0010	99	85	115			
Silver	0.0503	mg/L	0.010	100	85	115			
Thallium	0.544	mg/L	0.10	109	85	115			
Sample ID: R08060210-002D	Sample Matrix Spike			Run: SUB-C103319			06/27/08 05:54		
Antimony	0.550	mg/L	0.050	110	70	130			
Arsenic	0.488	mg/L	0.0010	97	70	130			
Beryllium	0.235	mg/L	0.010	94	70	130			
Cadmium	0.234	mg/L	0.010	93	70	130			
Lead	0.514	mg/L	0.050	103	70	130			
Selenium	0.452	mg/L	0.0010	90	70	130			
Silver	0.0467	mg/L	0.010	93	70	130			
Thallium	0.529	mg/L	0.10	106	70	130			
Uranium	0.597	mg/L	0.00030	119	70	130			
Sample ID: R08060210-002D	Sample Matrix Spike Duplicate			Run: SUB-C103319			06/27/08 06:00		
Antimony	0.557	mg/L	0.050	111	70	130	1.3	20	
Arsenic	0.500	mg/L	0.0010	100	70	130	2.3	20	
Beryllium	0.237	mg/L	0.010	95	70	130	0.9	20	
Cadmium	0.243	mg/L	0.010	97	70	130	3.8	20	
Lead	0.537	mg/L	0.050	107	70	130	4.3	20	
Selenium	0.460	mg/L	0.0010	92	70	130	1.8	20	
Silver	0.0484	mg/L	0.010	97	70	130	3.7	20	
Thallium	0.539	mg/L	0.10	108	70	130	1.9	20	
Uranium	0.584	mg/L	0.00030	117	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: 08/15/08
Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18884
Sample ID: LCS1-18884	Laboratory Control Sample								06/26/08 05:54
Uranium	0.0498	mg/L	0.00030	95	80	120			
Sample ID: C08060805-005FMS	Sample Matrix Spike								06/26/08 08:29
Uranium	0.0122	mg/L	0.00030	90	70	130			
Sample ID: C08060805-005FMSD	Sample Matrix Spike Duplicate								06/26/08 08:33
Uranium	0.0125	mg/L	0.00030	92	70	130	2.5	20	
Sample ID: MB-18884	Method Blank								07/02/08 07:00
Uranium	0.0004	mg/L	2E-05						

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: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R103735		
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C103735			07/03/08 12:39		
Arsenic	0.0545	mg/L	0.0010	109	85	115			
Cadmium	0.0539	mg/L	0.0010	108	85	115			
Copper	0.0547	mg/L	0.0010	109	85	115			
Lead	0.0535	mg/L	0.0010	107	85	115			
Mercury	0.00530	mg/L	0.0010	104	85	115			
Thorium 232	0.0532	mg/L	0.0010	106	85	115			
Uranium	0.0535	mg/L	0.00030	107	85	115			
Re-running for Ag.									
Sample ID: C08060235-001AMS	Sample Matrix Spike			Run: SUB-C103735			07/03/08 12:59		
Uranium	0.068	mg/L	0.0010	114	70	130			
Sample ID: C08060235-001AMSD	Sample Matrix Spike Duplicate			Run: SUB-C103735			07/03/08 13:06		
Uranium	0.069	mg/L	0.0010	118	70	130	2.7	20	
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C103735			07/03/08 16:54		
Arsenic	0.0521	mg/L	0.0010	104	85	115			
Cadmium	0.0515	mg/L	0.0010	103	85	115			
Copper	0.0520	mg/L	0.0010	104	85	115			
Lead	0.0525	mg/L	0.0010	105	85	115			
Mercury	0.00520	mg/L	0.0010	102	85	115			
Thorium 232	0.0504	mg/L	0.0010	101	85	115			
Uranium	0.0504	mg/L	0.00030	101	85	115			
Sample ID: C08060706-002BMS4	Post Digestion Spike			Run: SUB-C103735			07/04/08 03:08		
Arsenic	0.0541	mg/L	0.0010	107	70	130			
Cadmium	0.0488	mg/L	0.010	95	70	130			
Copper	0.0499	mg/L	0.010	96	70	130			
Lead	0.0536	mg/L	0.050	107	70	130			
Mercury	0.00523	mg/L	0.0010	105	70	130			
Thorium 232	0.0571	mg/L	0.0010	114	70	130			
Uranium	0.0627	mg/L	0.00030	113	70	130			
Sample ID: C08060706-002BMSD4	Post Digestion Spike Duplicate			Run: SUB-C103735			07/04/08 03:15		
Arsenic	0.0541	mg/L	0.0010	107	70	130	0.0	20	
Cadmium	0.0497	mg/L	0.010	97	70	130	1.9	20	
Copper	0.0499	mg/L	0.010	96	70	130	0.2	20	
Lead	0.0539	mg/L	0.050	108	70	130	0.6	20	
Mercury	0.00535	mg/L	0.0010	107	70	130	2.2	20	
Thorium 232	0.0573	mg/L	0.0010	115	70	130	0.4	20	
Uranium	0.0629	mg/L	0.00030	114	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: 08/15/08
 Work Order: R08060210

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		
Silver	7E-05	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C103823		07/07/08 14:09		
Silver	0.0210	mg/L	0.0010	105	85	115			
Sample ID: C08060805-004DMS4	Post Digestion Spike				Run: SUB-C103823		07/07/08 14:36		
Silver	0.0838	mg/L	0.010	84	70	130			
Sample ID: C08060805-004DMSD4	Post Digestion Spike Duplicate				Run: SUB-C103823		07/07/08 14:43		
Silver	0.0855	mg/L	0.010	85	70	130	2.1	20	
Sample ID: C08061335-006AMS4	Post Digestion Spike				Run: SUB-C103823		07/07/08 16:11		
Silver	0.00980	mg/L	0.010	49	70	130			S
Sample ID: C08061335-006AMSD4	Post Digestion Spike Duplicate				Run: SUB-C103823		07/07/08 16:17		
Silver	0.00900	mg/L	0.010	45	70	130	0.0	20	S
Method: E245.1							Batch: C_B_33083		
Sample ID: MB-33083	Method Blank				Run: SUB-C103198		06/21/08 08:04		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33083	Laboratory Fortified Blank				Run: SUB-C103198		06/21/08 08:07		
Mercury	0.0021	mg/L	0.0010	106	85	115			
Sample ID: B08061452-005CMS	Sample Matrix Spike				Run: SUB-C103198		06/21/08 09:57		
Mercury	0.0018	mg/L	0.0010	90	70	130			
Sample ID: B08061452-005CMSD	Sample Matrix Spike Duplicate				Run: SUB-C103198		06/21/08 10:02		
Mercury	0.0017	mg/L	0.0010	84	70	130	8.0	30	
Method: E245.1							Batch: C_B_33106		
Sample ID: MB-33106	Method Blank				Run: SUB-C103264		06/23/08 19:36		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33106	Laboratory Fortified Blank				Run: SUB-C103264		06/23/08 19:38		
Mercury	0.0017	mg/L	0.0010	86	85	115			
Sample ID: B08061470-001B MS	Sample Matrix Spike				Run: SUB-C103264		06/23/08 19:43		
Mercury	0.0018	mg/L	0.0010	91	70	130			
Sample ID: B08061470-001B MSD	Sample Matrix Spike Duplicate				Run: SUB-C103264		06/23/08 19:45		
Mercury	0.0021	mg/L	0.0010	103	70	130	13	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: 08/15/08
 Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Analytical Run: SUB-C103198		
Sample ID: QCS	Initial Calibration Verification Standard						06/21/08 07:48		
Mercury	0.0022	mg/L	0.0010	107	90	110			
Method: E245.1							Analytical Run: SUB-C103264		
Sample ID: QCS	Initial Calibration Verification Standard						06/23/08 19:27		
Mercury	0.0019	mg/L	0.0010	94	90	110			
Method: E300.0							Batch: G_R160439		
Sample ID: LCS	Laboratory Control Sample				Run: SUB-G160439		06/11/08 11:31		
Chloride	28.7	mg/L	1.0	95	90	110			
Fluoride	19.8	mg/L	0.10	98	90	110			
Nitrogen, Nitrate as N	22.2	mg/L	0.10	96	90	110			
Nitrogen, Nitrite as N	28.9	mg/L	0.10	95	90	110			
Sulfate	141	mg/L	1.0	94	90	110			
Sample ID: MBLK	Method Blank				Run: SUB-G160439		06/11/08 11:43		
Chloride	ND	mg/L	0.08						
Fluoride	ND	mg/L	0.007						
Nitrogen, Nitrate as N	ND	mg/L	0.008						
Nitrogen, Nitrite as N	ND	mg/L	0.002						
Sulfate	ND	mg/L	0.04						
Sample ID: G08060437-001AMS	Sample Matrix Spike				Run: SUB-G160439		06/12/08 17:54		
Chloride	198	mg/L	1.0	100	80	120			
Fluoride	19.6	mg/L	0.10	99	80	120			
Nitrogen, Nitrate as N	19.2	mg/L	0.10	98	80	120			
Nitrogen, Nitrite as N	20.0	mg/L	0.10	102	80	120			
Sulfate	576	mg/L	1.0	98	80	120			
Sample ID: G08060437-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-G160439		06/12/08 18:07		
Chloride	198	mg/L	1.0	99	80	120	0.2	20	
Fluoride	19.6	mg/L	0.10	99	80	120	0.1	20	
Nitrogen, Nitrate as N	19.2	mg/L	0.10	98	80	120	0.1	20	
Nitrogen, Nitrite as N	19.9	mg/L	0.10	102	80	120	0.4	20	
Sulfate	573	mg/L	1.0	96	80	120	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: 08/15/08
 Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0475		
Sample ID: MB-GrAB-0475	Method Blank				Run: SUB-C104225			07/10/08 21:30	
Gross Alpha	2	pCi/L							
Gross Beta	-2	pCi/L							U
Sample ID: UNAT-GrAB-0475	Laboratory Control Sample				Run: SUB-C104225			07/10/08 21:30	
Gross Alpha	130	pCi/L	91	70	130				
Sample ID: C08060630-001AMS	Sample Matrix Spike				Run: SUB-C104225			07/10/08 21:30	
Gross Alpha	310	pCi/L	158	70	130				S
- Spike response is outside of the acceptance range for this analysis. Since the LCS the MS are acceptable the batch is approved.									
Sample ID: C08060630-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C104225			07/10/08 21:30	
Gross Alpha	250	pCi/L	120	70	130	19	16.1		R
Sample ID: Cs137-GrAB-0475	Laboratory Control Sample				Run: SUB-C104225			07/10/08 21:30	
Gross Beta	100	pCi/L	110	70	130				
Sample ID: C08060630-001AMS	Sample Matrix Spike				Run: SUB-C104225			07/10/08 21:30	
Gross Beta	120	pCi/L	98	70	130				
Sample ID: C08060630-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C104225			07/11/08 09:45	
Gross Beta	120	pCi/L	101	70	130	2.0	15.4		
Method: E901.1							Batch: C_R102941		
Sample ID: LCS-R102941	Laboratory Control Sample				Run: SUB-C102941			06/17/08 16:05	
Americium 241	29000	pCi/L	20	92	70	130			
Cesium 137	270000	pCi/L	20	101	70	130			
Cobalt 60	71000	pCi/L	20	102	70	130			
Sample ID: MB-R102941	Method Blank				Run: SUB-C102941			06/17/08 16:05	
Gross Gamma	ND	pCi/L							U
Sample ID: C08060096-004HDUP	Sample Duplicate				Run: SUB-C102941			06/17/08 16:05	
Gross Gamma	ND	pCi/L	20			0.0	30		U

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: 08/15/08
 Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_18884
Sample ID: C08060704-003FMS Radium 226	Sample Matrix Spike 180	pCi/L		112	70	130			07/08/08 09:54
Run: SUB-C103951									
Sample ID: C08060704-003FMSD Radium 226	Sample Matrix Spike Duplicate 180	pCi/L		116	70	130	1.0	21.6	07/08/08 09:54
Run: SUB-C103951									
Sample ID: LCS-18884 Radium 226	Laboratory Control Sample 15	pCi/L		99	70	130			07/08/08 11:32
Run: SUB-C103951									
Sample ID: MB-18884 Radium 226	Method Blank -1	pCi/L							07/08/08 11:32 U
Run: SUB-C103951									
Method: E903.0									Batch: C_RA226-2915
Sample ID: C08060570-001AMS Radium 226	Sample Matrix Spike 21	pCi/L		112	70	130			07/15/08 16:23
Run: SUB-C104307									
Sample ID: C08060570-001AMSD Radium 226	Sample Matrix Spike Duplicate 21	pCi/L		110	70	130	1.7	21.8	07/15/08 16:23
Run: SUB-C104307									
Sample ID: MB-RA226-2915 Radium 226	Method Blank -0.1	pCi/L							07/15/08 23:27 U
Run: SUB-C104307									
Sample ID: LCS-RA226-2915 Radium 226	Laboratory Control Sample 8.5	pCi/L		108	70	130			07/15/08 23:27
Run: SUB-C104307									
Method: E907.0									Batch: C_18884
Sample ID: C08060721-001AMS Thorium 230	Sample Matrix Spike 44.3	pCi/Filter	0.20	90	70	130			07/16/08 09:48
Run: SUB-C104381									
Sample ID: C08060721-001AMSD Thorium 230	Sample Matrix Spike Duplicate 47.8	pCi/Filter	0.20	98	70	130	7.7	67.1	07/16/08 09:50
Run: SUB-C104381									
Sample ID: LCS-18884 Thorium 230	Laboratory Control Sample 21.2	pCi/L	0.20	88	70	130			07/03/08 20:05
Run: SUB-C104381									
Sample ID: MB-18884 Thorium 230	Method Blank 1	pCi/L							07/03/08 20:05 U
Run: SUB-C104381									

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: 08/15/08
 Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0556		
Sample ID: LCS-RA-TH-ISO-0556 Thorium 230	Laboratory Control Sample					Run: SUB-C104256			07/08/08 22:11
	5.46	pCi/L	0.20	91	70	130			
Sample ID: R08060210-001H Thorium 230	Sample Matrix Spike					Run: SUB-C104256			07/09/08 12:34
	47.6	pCi/L	0.20	96	70	130			
Sample ID: R08060210-001H Thorium 230	Sample Matrix Spike Duplicate					Run: SUB-C104256			07/09/08 12:34
	42.3	pCi/L	0.20	89	70	130	12	30	
Sample ID: MB-RA-TH-ISO-0556 Thorium 230	Method Blank					Run: SUB-C104256			07/09/08 12:34
	0.009	pCi/L							U
Method: E909.0M							Batch: C_18884		
Sample ID: R08060210-002I Lead 210	Sample Matrix Spike					Run: SUB-C105000			07/08/08 09:00
	1500	pCi/L		129	70	130			
Sample ID: R08060210-002I Lead 210	Sample Matrix Spike Duplicate					Run: SUB-C105000			07/08/08 09:00
	1200	pCi/L		99	70	130	26	30	
Sample ID: MB-R105000 Lead 210	Method Blank					Run: SUB-C105000			07/08/08 09:00
	4	pCi/L							U
Sample ID: LCS-R105000 Lead 210	Laboratory Control Sample					Run: SUB-C105000			07/08/08 09:00
	140	pCi/L		118	70	130			
Method: E909.0M							Batch: C_R104574		
Sample ID: C08060289-003FMS Lead 210	Sample Matrix Spike					Run: SUB-C104574			06/25/08 09:15
	310	pCi/L		106	70	130			
Sample ID: C08060289-003FMSD Lead 210	Sample Matrix Spike Duplicate					Run: SUB-C104574			06/25/08 09:15
	450	pCi/L		152	70	130	35	30	SR
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MS are acceptable the batch is approved.									
Sample ID: MB-R104574 Lead 210	Method Blank					Run: SUB-C104574			06/25/08 09:15
	-0.3	pCi/L							U
Sample ID: LCS-R104574 Lead 210	Laboratory Control Sample					Run: SUB-C104574			06/25/08 09:15
	47	pCi/L		80	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: 08/15/08
 Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R103733		
Sample ID: R08060210-002H Polonium 210	Sample Matrix Spike 80	pCi/L	1.0	93	70	130			06/30/08 12:00
Sample ID: R08060210-002H Polonium 210	Sample Matrix Spike Duplicate 84	pCi/L	1.0	98	70	130	5.1	30	06/30/08 12:00
Sample ID: LCS-R103733 Polonium 210	Laboratory Control Sample 48	pCi/L	1.0	109	70	130			06/30/08 12:00
Sample ID: MB-R103733 Polonium 210	Method Blank 0.3	pCi/L							06/30/08 12:00 U
Method: RMO-3008							Batch: C_R103734		
Sample ID: C08060805-005FMS Polonium 210	Sample Matrix Spike 42	pCi/L	1.0	96	70	130			06/30/08 12:00
Sample ID: C08060805-005FMSD Polonium 210	Sample Matrix Spike Duplicate 47	pCi/L	1.0	107	70	130	11	30	06/30/08 12:00
Sample ID: LCS-18884 Polonium 210	Laboratory Control Sample 97	pCi/L	1.0	112	70	130			06/30/08 12:00
Sample ID: MB-18884 Polonium 210	Method Blank ND	pCi/L							06/30/08 12:00 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

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 <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address:		Contact Name: Cory Foreman Respec		Email:	Sampler: (Please Print) Eric Kaurer
Invoice Address:		Phone/Fax:		Purchase Order:	Quote/Bottle Order:
Special Report/Formats - ELL must be notified prior to sample submittal for the following:				Shipped by: Cooler/Dryer:	
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: <input type="checkbox"/> Other:		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Receipt Temp 6.4 °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
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	
1 Dew Burd Gw 680		6/10/08	10:50	W	
2 Dew Burd Gw 688		6/10/08	16:37	W	
3					
4					
5					
6					
7					
8					
9					
10					
Requisitioned by (print): Eric Kaurer		Date/Time: 6/10/08 09:30		Signature: 	
Requisitioned by (print): Steve Foreman		Date/Time: 6-11-08 9:30		Signature: 	
Sample Disposal: Return to Client:		Lab Disposal:		Received by Laboratory: Date/Time: Signature:	
MUST be Signed		ANALYSIS REQUESTED As per Q10/08		RUSH Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: All GW	
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.		SEE ATTACHED Normal Turnaround (TAT)		Shipped by: Cooler/Dryer: Receipt Temp 6.4 °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal Intact: Y N Signature Match: Y N	



ANALYTICAL SUMMARY REPORT

August 20, 2008

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

Workorder No.: R08060335 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
R08060335-001	DewBurd GW619	06/17/08 18:10	06/18/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

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



Date: 20-Aug-08

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08060335

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 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.
- 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: C08060996

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: C08060996



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060335-001
 Client Sample ID: DewBurd GW619

Report Date: 08/20/08
 Collection Date: 06/17/08 18:10
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	116	mg/L		5			1	A2320 B	06/25/08 11:06/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	06/25/08 11:06/mb
Bicarbonate as HCO3	141	mg/L		5			1	A2320 B	06/25/08 11:06/mb
Calcium	375	mg/L		0.5			2	E200.7	07/08/08 19:08/eli-c
Chloride	9	mg/L		1			1	E300.0	06/20/08 01:16/jmh
Fluoride	0.3	mg/L		0.1			1	E300.0	06/20/08 01:16/jmh
Magnesium	129	mg/L		0.5			2	E200.7	07/08/08 19:08/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	06/19/08 12:24/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/20/08 01:16/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/20/08 01:16/jmh
Potassium	17.6	mg/L		0.5			2	E200.7	07/08/08 19:08/eli-c
Silica	4.0	mg/L		0.5			2	E200.7	07/08/08 19:08/eli-c
Sodium	90	mg/L	D	2			2	E200.7	07/08/08 19:08/eli-c
Sulfate	1230	mg/L	D	3			50	E300.0	06/20/08 00:27/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	2390	umhos/cm		5.0			1	A2510 B	06/19/08 14:52/tb
Oxidation-Reduction Potential	150	mV					1	A2580 B	06/23/08 00:00/jmh
pH	7.82	s.u.		0.01			1	A4500-H B	06/19/08 12:22/tb
Sodium Adsorption Ratio (SAR)	1.0	unitless		0.10			1	Calculation	08/20/08 11:24/ADM
Solids, Total Dissolved TDS @ 180 C	2000	mg/L		5			1	A2540 C	06/20/08 08:26/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/08/08 19:08/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	07/17/08 17:01/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/08/08 19:08/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/08/08 19:08/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/17/08 17:01/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/08/08 19:08/eli-c
Copper	0.01	mg/L		0.01			1	E200.8	07/17/08 17:01/eli-c
Iron	3.03	mg/L		0.03			2	E200.7	07/08/08 19:08/eli-c
Lead	0.002	mg/L		0.001			1	E200.8	07/17/08 17:01/eli-c
Manganese	1.74	mg/L		0.01			2	E200.7	07/08/08 19:08/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/17/08 17:01/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/08/08 19:08/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/08/08 19:08/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/19/08 14:37/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/17/08 17:01/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060335-001
 Client Sample ID: DewBurd GW619

Report Date: 08/20/08
 Collection Date: 06/17/08 18:10
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/17/08 17:01/eli-c
Uranium	0.0016	mg/L		0.0003		1	E200.8 07/17/08 17:01/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/08/08 19:08/eli-c
Zinc	0.03	mg/L		0.01		2	E200.7 07/08/08 19:08/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 07/17/08 22:45/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/19/08 11:37/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/19/08 14:37/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	398	pCi/L				1	E900.0 07/21/08 22:49/eli-c
Gross Alpha precision (±)	19.5	pCi/L				1	E900.0 07/21/08 22:49/eli-c
Gross Alpha MDC	8.8	pCi/L				1	E900.0 07/21/08 22:49/eli-c
Gross Beta	144	pCi/L				1	E900.0 07/21/08 22:49/eli-c
Gross Beta precision (±)	7.7	pCi/L				1	E900.0 07/21/08 22:49/eli-c
Gross Beta MDC	9.3	pCi/L				1	E900.0 07/21/08 22:49/eli-c
Lead 210	-1.1	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	-0.1	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	110	pCi/L				1	E903.0 07/16/08 08:37/eli-c
Radium 226 precision (±)	1.8	pCi/L				1	E903.0 07/16/08 08:37/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 07/17/08 12:48/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 07/17/08 12:48/eli-c
Gross Gamma	270	pCi/L		20		1	E901.1 06/20/08 16:37/eli-c
Gross Gamma precision (±)	52	pCi/L				1	E901.1 06/20/08 16:37/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	2.0	pCi/L	U			1	E909.0M 07/14/08 09:30/eli-c
Lead 210 precision (±)	10.9	pCi/L				1	E909.0M 07/14/08 09:30/eli-c
Lead 210 MDC	18.2	pCi/L				1	E909.0M 07/14/08 09:30/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	8.8	pCi/L				1	E903.0 07/15/08 14:46/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060335-001
 Client Sample ID: DewBurd GW619

Report Date: 08/20/08
 Collection Date: 06/17/08 18:10
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	1.0	pCi/L					1	E903.0	07/15/08 14:46/eli-c
Radium 226 MDC	0.6	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 (±)	0.1	pCi/L					1	E907.0	07/13/08 18:14/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	5770	pCi/L		100			1	D5072-92	06/21/08 07:14/eli-c
Radon 222 precision (±)	118	pCi/L					1	D5072-92	06/21/08 07:14/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/26/08 15:22/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	06/26/08 15:22/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/26/08 15:22/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	07/17/08 21:45/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/08/08 23:04/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/26/08 15:22/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/26/08 15:22/eli-c
Copper	0.01	mg/L		0.01			1	E200.8	06/26/08 15:22/eli-c
Iron	13.0	mg/L		0.03			2	E200.7	07/08/08 23:04/eli-c
Lead	0.002	mg/L		0.001			1	E200.8	06/26/08 15:22/eli-c
Manganese	1.65	mg/L		0.01			1	E200.8	06/26/08 15:22/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	06/30/08 08:13/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/26/08 15:22/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/26/08 15:22/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/26/08 15:22/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/26/08 15:22/eli-c
Strontium	5.4	mg/L		0.1			1	E200.8	06/26/08 15:22/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/26/08 15:22/eli-c
Uranium	0.0018	mg/L		0.0003			1	E200.8	06/26/08 15:22/eli-c
Zinc	0.08	mg/L		0.01			1	E200.8	06/26/08 15:22/eli-c
DATA QUALITY									
A/C Balance (± 5)	9.08	%					1	A1030 E	08/20/08 00:00/kl
Anions	28.3	meq/L					1	A1030 E	08/20/08 00:00/kl
Cations	34.0	meq/L					1	A1030 E	08/20/08 00:00/kl
Solids, Total Dissolved Calculated	1940	mg/L					1	A1030 E	08/20/08 00:00/kl
TDS Balance (0.80 - 1.20)	1.02						1	A1030 E	08/20/08 00:00/kl

Report RL - Analyte reporting limit.
 Definitions: 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: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080625A-ALK-SEL-W		
Sample ID: LCS1_080625A Alkalinity, Total as CaCO3	Laboratory Control Sample 964	mg/L	5.0	96	90	110			Run: PH_COND1-R_080625A 06/25/08 09:31
Sample ID: MBLK1_080625A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080625A 06/25/08 09:34
Sample ID: R08060319-002DMS Alkalinity, Total as CaCO3	Sample Matrix Spike 392	mg/L	5.0	98	80	120			Run: PH_COND1-R_080625A 06/25/08 10:59
Sample ID: R08060319-002DMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 390	mg/L	5.0	96	80	120	0.5	10	Run: PH_COND1-R_080625A 06/25/08 11:03
Method: A2510 B							Batch: 080619_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080619 Conductivity @ 25 C	Laboratory Control Sample 1420	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080619B 06/19/08 14:11
Sample ID: LCS1-1_080619 Conductivity @ 25 C	Laboratory Control Sample 148	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080619B 06/19/08 14:13
Sample ID: LCS2-1_080619 Conductivity @ 25 C	Laboratory Control Sample 5020	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080619B 06/19/08 14:14
Sample ID: MBLK-1_080619 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080619B 06/19/08 14:53
Sample ID: R08060335-001ADUP Conductivity @ 25 C	Sample Duplicate 2400	umhos/cm	5.0				0.4	10	Run: PH_COND2-R_080619B 06/19/08 14:52
Method: A2540 C							Batch: 080620A-SLDS-TDS-W		
Sample ID: R08060331-003BMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 1400	mg/L	5.0	112	80	120			Run: BAL-4-R_080618B 06/20/08 08:25
Sample ID: R08060331-003BMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 1400	mg/L	5.0	110	80	120	0.3	10	Run: BAL-4-R_080618B 06/20/08 08:25
Method: A2580 B							Batch: 080623-ORP-ISE-W		
Sample ID: LCS Oxidation-Reduction Potential	Laboratory Control Sample 470	mV		100	95	105			Run: PH_COND1-R_080623A 06/23/08 00:00
Sample ID: R08060335-001F Oxidation-Reduction Potential	Sample Duplicate 150	mV					2.7	10	Run: PH_COND1-R_080623A 06/23/08 00:00

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: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080719A		
Sample ID: MBLK Selenium-IV	Method Blank ND mg/L		6E-05			Run: SUB-C104480			07/19/08 11:18
Sample ID: 288-106-2 Selenium-IV	Laboratory Control Sample 0.046 mg/L		0.0010	92	90	110			07/19/08 11:21
Sample ID: C08060993-001AMS Selenium-IV	Sample Matrix Spike 0.050 mg/L		0.0010	100	85	115			07/19/08 11:25
Sample ID: C08060993-001AMSD Selenium-IV	Sample Matrix Spike Duplicate 0.051 mg/L		0.0010	102	85	115	1.6	10	07/19/08 11:27
Method: A3114 B							Batch: C_SE3114-080719C		
Sample ID: MBLK Selenium	Method Blank ND mg/L		6E-05			Run: SUB-C104484			07/19/08 14:18
Sample ID: 288-106-2 Selenium	Laboratory Control Sample 0.046 mg/L		0.0010	92	90	110			07/19/08 14:20
Sample ID: C08060993-001AMS Selenium	Sample Matrix Spike 0.051 mg/L		0.0010	102	85	115			07/19/08 14:24
Sample ID: C08060993-001AMSD Selenium	Sample Matrix Spike Duplicate 0.052 mg/L		0.0010	104	85	115	1.8	10	07/19/08 14:26
Method: A4500-H B							Batch: 080619_2_PH-W		
Sample ID: LCS_pH-1_080619 pH	Laboratory Control Sample 6.91 s.u.		0.010	101	98.55	101.45			06/19/08 11:37

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: R08060335

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 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_080619A			06/19/08 10:10
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.23	mg/L	0.10	92	90	110			06/19/08 10:12
						Run: TECHAA2-R_080619A			06/19/08 10:22
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.22	mg/L	0.10	89	90	110			S
						Run: TECHAA2-R_080619A			06/19/08 12:31
Sample ID: R08060347-003FMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.20	mg/L	0.10	81	80	120			
						Run: TECHAA2-R_080619A			06/19/08 12:32
Sample ID: R08060347-003FMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.22	mg/L	0.10	89	80	120	9.9	10	
						Run: TECHAA2-R_080619A			06/19/08 12:32
Method: D5072-92							Batch: C_R103092		
Sample ID: C08060969-003IDUP Radon 222	Sample Duplicate 129	pCi/L	100				0.1	30	
						Run: SUB-C103092			06/21/08 07:14
Sample ID: MB-R103092 Radon 222	Method Blank 20	pCi/L							
						Run: SUB-C103092			06/21/08 07:14
Sample ID: LCS-R103092 Radon 222	Laboratory Control Sample 301	pCi/L	100	91	70	130			
						Run: SUB-C103092			06/21/08 07:14
Method: E200.7							Batch: C_18911		
Sample ID: MB-18911 Boron Iron	Method Blank 0.03 ND	mg/L mg/L	0.01 0.009						
						Run: SUB-C103914			07/08/08 22:15
Sample ID: LCS3-18911 Boron Iron	Laboratory Control Sample 0.549 2.70	mg/L mg/L	0.10 0.030	103 108	85 85	115 115			
						Run: SUB-C103914			07/08/08 22:19
Sample ID: R08060335-001D Boron Iron	Sample Matrix Spike 0.586 15.9	mg/L mg/L	0.10 0.030	102	70 70	130 130			
						Run: SUB-C103914			07/08/08 23:08
Sample ID: R08060335-001D Boron Iron	Sample Matrix Spike Duplicate 0.585 16.3	mg/L mg/L	0.10 0.030	102	70 70	130 130	0.2 2.4	20 20	A
						Run: SUB-C103914			07/08/08 23:12

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: 08/20/08
Work Order: R08060335

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: C08060995-003AMS2	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: 08/20/08
Work Order: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103914		
Sample ID: C08060995-003AMS2	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: C08060995-003AMS2	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.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060335

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: 08/20/08
Work Order: R08060335

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-C103319			06/26/08 14:55		
Antimony	0.0002	mg/L	0.0002						
Arsenic	0.0007	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Chromium	0.005	mg/L	5E-05						
Copper	0.002	mg/L	0.0002						
Lead	6E-06	mg/L							
Manganese	0.0003	mg/L	3E-05						
Molybdenum	ND	mg/L	7E-05						
Nickel	ND	mg/L	0.0002						
Selenium	ND	mg/L	0.0002						
Silver	0.0001	mg/L	4E-05						
Strontium	ND	mg/L	8E-05						
Thallium	7E-05	mg/L	4E-05						
Uranium	ND	mg/L	3E-05						
Zinc	0.001	mg/L	0.0003						
Sample ID: LCS3-18911	Laboratory Control Sample			Run: SUB-C103319			06/26/08 15:02		
Antimony	0.536	mg/L	0.050	107	85	115			
Arsenic	0.525	mg/L	0.0010	105	85	115			
Barium	0.520	mg/L	0.10	104	85	115			
Beryllium	0.235	mg/L	0.010	94	85	115			
Cadmium	0.259	mg/L	0.010	104	85	115			
Chromium	0.509	mg/L	0.050	101	85	115			
Copper	0.501	mg/L	0.010	100	85	115			
Lead	0.538	mg/L	0.050	108	85	115			
Manganese	2.55	mg/L	0.010	102	85	115			
Molybdenum	0.538	mg/L	0.10	108	85	115			
Nickel	0.506	mg/L	0.050	101	85	115			
Selenium	0.516	mg/L	0.0010	103	85	115			
Silver	0.0457	mg/L	0.010	91	85	115			
Strontium	0.553	mg/L	0.10	111	85	115			
Thallium	0.528	mg/L	0.10	106	85	115			
Uranium	0.573	mg/L	0.00030	115	85	115			
Zinc	0.477	mg/L	0.010	95	85	115			
Sample ID: R08060335-001D	Sample Matrix Spike			Run: SUB-C103319			06/26/08 15:29		
Antimony	0.556	mg/L	0.050	111	70	130			
Arsenic	0.544	mg/L	0.0010	108	70	130			
Barium	0.568	mg/L	0.10	111	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: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18911		
Sample ID: R08060335-001D	Sample Matrix Spike			Run: SUB-C103319			06/26/08 15:29		
Beryllium	0.220	mg/L	0.010	88	70	130			
Cadmium	0.252	mg/L	0.010	101	70	130			
Chromium	0.509	mg/L	0.050	101	70	130			
Copper	0.504	mg/L	0.010	99	70	130			
Lead	0.564	mg/L	0.050	112	70	130			
Manganese	4.21	mg/L	0.010	102	70	130			
Molybdenum	0.573	mg/L	0.10	114	70	130			
Nickel	0.513	mg/L	0.050	102	70	130			
Selenium	0.522	mg/L	0.0010	104	70	130			
Silver	0.0451	mg/L	0.010	90	70	130			
Strontium	6.22	mg/L	0.10		70	130			A
Thallium	0.574	mg/L	0.10	115	70	130			
Uranium	0.629	mg/L	0.00030	125	70	130			
Zinc	0.507	mg/L	0.010	85	70	130			
Sample ID: R08060335-001D	Sample Matrix Spike Duplicate			Run: SUB-C103319			06/26/08 15:35		
Antimony	0.550	mg/L	0.050	110	70	130	1.1	20	
Arsenic	0.528	mg/L	0.0010	105	70	130	2.9	20	
Barium	0.559	mg/L	0.10	109	70	130	1.5	20	
Beryllium	0.215	mg/L	0.010	86	70	130	2.2	20	
Cadmium	0.247	mg/L	0.010	99	70	130	2.0	20	
Chromium	0.495	mg/L	0.050	98	70	130	2.8	20	
Copper	0.488	mg/L	0.010	96	70	130	3.1	20	
Lead	0.562	mg/L	0.050	112	70	130	0.4	20	
Manganese	4.21	mg/L	0.010	102	70	130	0.0	20	
Molybdenum	0.561	mg/L	0.10	112	70	130	2.1	20	
Nickel	0.494	mg/L	0.050	98	70	130	3.8	20	
Selenium	0.504	mg/L	0.0010	101	70	130	3.5	20	
Silver	0.0441	mg/L	0.010	88	70	130	2.2	20	
Strontium	6.16	mg/L	0.10		70	130	1.0	20	A
Thallium	0.571	mg/L	0.10	114	70	130	0.5	20	
Uranium	0.630	mg/L	0.00030	126	70	130	0.1	20	
Zinc	0.496	mg/L	0.010	83	70	130	2.1	20	
Sample ID: R08060335-001D	Sample Matrix Spike			Run: SUB-C104018			07/10/08 11:21		
Arsenic	0.529	mg/L	0.0010	105	70	130			
Copper	0.516	mg/L	0.010	101	70	130			
Lead	0.513	mg/L	0.050	103	70	130			
Manganese	4.40	mg/L	0.010	111	70	130			
Molybdenum	0.510	mg/L	0.10	102	70	130			
Selenium	0.513	mg/L	0.0020	103	70	130			

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18911		
Sample ID: R08060335-001D	Sample Matrix Spike			Run: SUB-C104018			07/10/08 11:21		
Uranium	0.532	mg/L	0.00032	106	70	130			
Sample ID: R08060335-001D	Sample Matrix Spike Duplicate			Run: SUB-C104018			07/10/08 11:26		
Arsenic	0.523	mg/L	0.0010	104	70	130	1.1	20	
Copper	0.506	mg/L	0.010	99	70	130	2.0	20	
Lead	0.510	mg/L	0.050	102	70	130	0.7	20	
Manganese	4.36	mg/L	0.010	109	70	130	1.0	20	
Molybdenum	0.513	mg/L	0.10	103	70	130	0.5	20	
Selenium	0.508	mg/L	0.0020	102	70	130	0.9	20	
Uranium	0.536	mg/L	0.00032	107	70	130	0.8	20	
Sample ID: R08060335-001D	Sample Matrix Spike			Run: SUB-C104345			07/17/08 08:20		
Antimony	5.82	mg/L	0.050	116	70	130			
Arsenic	5.26	mg/L	0.0010	105	70	130			
Barium	5.58	mg/L	0.10	111	70	130			
Beryllium	2.89	mg/L	0.010	116	70	130			
Cadmium	2.45	mg/L	0.010	98	70	130			
Chromium	5.14	mg/L	0.050	103	70	130			
Copper	4.77	mg/L	0.010	95	70	130			
Lead	5.26	mg/L	0.050	105	70	130			
Manganese	43.0	mg/L	0.010	165	70	130			S
Molybdenum	5.34	mg/L	0.10	107	70	130			
Nickel	4.81	mg/L	0.050	96	70	130			
Selenium	5.02	mg/L	0.0020	100	70	130			
Silver	0.439	mg/L	0.010	88	70	130			
Strontium	57.2	mg/L	0.10	1050	70	130			S
Thallium	5.34	mg/L	0.10	107	70	130			
Uranium	6.14	mg/L	0.00032	123	70	130			
Zinc	5.30	mg/L	0.010	104	70	130			
Sample ID: R08060335-001D	Sample Matrix Spike Duplicate			Run: SUB-C104345			07/17/08 08:25		
Antimony	5.82	mg/L	0.050	116	70	130	0.0	20	
Arsenic	5.12	mg/L	0.0010	102	70	130	2.8	20	
Barium	5.64	mg/L	0.10	113	70	130	1.1	20	
Beryllium	2.89	mg/L	0.010	116	70	130	0.2	20	
Cadmium	2.44	mg/L	0.010	98	70	130	0.2	20	
Chromium	5.25	mg/L	0.050	105	70	130	2.2	20	
Copper	4.68	mg/L	0.010	93	70	130	2.0	20	
Lead	5.37	mg/L	0.050	107	70	130	2.1	20	
Manganese	44.1	mg/L	0.010	169	70	130	2.5	20	S
Molybdenum	5.34	mg/L	0.10	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: 08/20/08
Work Order: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18911		
Sample ID: R08060335-001D	Sample Matrix Spike Duplicate			Run: SUB-C104345			07/17/08 08:25		
Nickel	4.68	mg/L	0.050	94	70	130	2.6	20	
Selenium	4.89	mg/L	0.0020	98	70	130	2.6	20	
Silver	0.442	mg/L	0.010	88	70	130	0.6	20	
Strontium	57.4	mg/L	0.10	1050	70	130	0.2	20	S
Thallium	5.36	mg/L	0.10	107	70	130	0.3	20	
Uranium	6.31	mg/L	0.00032	126	70	130	2.7	20	
Zinc	5.15	mg/L	0.010	101	70	130	2.9	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: 08/20/08
 Work Order: R08060335

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: 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			
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: 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	
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: 08/20/08
 Work Order: R08060335

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: B_33204		
Sample ID: MB-33204	Method Blank			Run: SUB-B113209			06/30/08 07:09		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33204	Laboratory Fortified Blank			Run: SUB-B113209			06/30/08 07:12		
Mercury	0.0017	mg/L	0.0010	86	85	115			
Sample ID: R08060335-001D	Sample Matrix Spike			Run: SUB-B113209			06/30/08 08:31		
Mercury	0.0021	mg/L	0.0010	103	70	130			
Sample ID: R08060335-001D	Sample Matrix Spike Duplicate			Run: SUB-B113209			06/30/08 08:33		
Mercury	0.0020	mg/L	0.0010	99	70	130	4.0	30	
Method: E245.1							Analytical Run: SUB-B113209		
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: R08060335

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			
Nitrogen, Nitrite as N	2.41	mg/L	0.10	96	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			
Nitrogen, Nitrite as N	2.47	mg/L	0.10	99	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			
Nitrogen, Nitrite as N	124	mg/L	2.9	99	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	
Nitrogen, Nitrite as N	121	mg/L	2.9	97	80	120	2.5	10	
Sulfate	1870	mg/L	3.4	85	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: 08/20/08
 Work Order: R08060335

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: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_18917		
Sample ID: C08060995-004KMS Radium 226	Sample Matrix Spike 160	pCi/L		100	70	130			07/15/08 14:46
Sample ID: C08060995-004KMSD Radium 226	Sample Matrix Spike Duplicate 170	pCi/L		110	70	130	9.7	24.6	07/15/08 14:46
Sample ID: LCS-18917 Radium 226	Laboratory Control Sample 16	pCi/L		112	70	130			07/15/08 14:46
Sample ID: MB-18917 Radium 226	Method Blank -2	pCi/L							07/15/08 16:22 U
Method: E903.0							Batch: C_RA226-2918		
Sample ID: MB-RA226-2918 Radium 226	Method Blank 0.1	pCi/L							07/16/08 07:03
Sample ID: C08060981-001AMS Radium 226	Sample Matrix Spike 19	pCi/L		109	70	130			07/16/08 07:03
Sample ID: C08060981-001AMSD Radium 226	Sample Matrix Spike Duplicate 19	pCi/L		108	70	130	0.6	21	07/16/08 07:03
Sample ID: LCS-RA226-2918 Radium 226	Laboratory Control Sample 8.2	pCi/L		102	70	130			07/16/08 08:37
Method: E907.0							Batch: C_18917		
Sample ID: R08060335-0011 Thorium 230	Sample Matrix Spike 19.7	pCi/L	0.20	85	70	130			07/13/08 18:14
Sample ID: R08060335-0011 Thorium 230	Sample Matrix Spike Duplicate 21.7	pCi/L	0.20	96	70	130	9.5	30	07/13/08 18:14
Sample ID: LCS-18917 Thorium 230	Laboratory Control Sample 51.9	pCi/L	0.20	108	70	130			07/13/08 18:14
Sample ID: MB-18917 Thorium 230	Method Blank 0.7	pCi/L							07/13/08 18:14

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: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0566		
Sample ID: LCS-RA-TH-ISO-0566	Laboratory Control Sample				Run: SUB-C104779				07/21/08 16:02
Thorium 230	6.43	pCi/L	0.20	105	70	130			
Sample ID: C08061025-003BMS	Sample Matrix Spike				Run: SUB-C104779				07/21/08 16:13
Thorium 230	15.8	pCi/L	0.20	96	70	130			
Sample ID: C08061025-003BMSD	Sample Matrix Spike Duplicate				Run: SUB-C104779				07/21/08 16:14
Thorium 230	14.3	pCi/L	0.20	89	70	130	9.5	30	
Sample ID: MB-RA-TH-ISO-0566	Method Blank				Run: SUB-C104779				07/17/08 12:48
Thorium 230	0.05	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: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_18917		
Sample ID: C08060943-001FMS Polonium 210	Sample Matrix Spike 29	pCi/L	1.0	128	70	130			08/18/08 17:00
									Run: SUB-C106132
Sample ID: C08060943-001FMSD Polonium 210	Sample Matrix Spike Duplicate 22	pCi/L	1.0	99	70	130	25	30	08/18/08 17:00
									Run: SUB-C106132
Sample ID: MB-R106132 Polonium 210	Method Blank -0.09	pCi/L							08/18/08 17:00 U
									Run: SUB-C106132
Sample ID: LCS-R106132 Polonium 210	Laboratory Control Sample 84	pCi/L	1.0	97	70	130			08/18/08 17:00
									Run: SUB-C106132
Method: RMO-3008							Batch: C_R104442		
Sample ID: C08061021-004EMS Polonium 210	Sample Matrix Spike 65	pCi/L	1.0	73	70	130			07/09/08 18:40
									Run: SUB-C104442
Sample ID: C08061021-004EMSD Polonium 210	Sample Matrix Spike Duplicate 75	pCi/L	1.0	85	70	130	14	30	07/09/08 18:40
									Run: SUB-C104442
Sample ID: LCS-R104442 Polonium 210	Laboratory Control Sample 44	pCi/L	1.0	103	70	130			07/09/08 18:40
									Run: SUB-C104442
Sample ID: MB-R104442 Polonium 210	Method Blank -0.3	pCi/L							07/09/08 18:40 U
									Run: SUB-C104442

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

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC		Project Name, PWS, Permit, Etc. Riverkel Dewey Burdock		Sample Origin State:	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address:		Contact Name: Cory Foreman	Phone/Fax:	Email:	Sampler: (Please Print) Eric Kantz
Invoice Address:		Invoice Contact & Phone:		Purchase Order:	Quota/Bottle Order:
Special Report/Formats - ELL must be notified prior to sample submittal for the following:					
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) Dewey Burdock 619		Collection Date 6/17/08	Collection Time 18:10	ANALYSIS REQUESTED As per Order	
1		MATRIX W		SEE ATTACHED	
2				Normal Turnaround (TAT)	
3				RUSH	
4				Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: GW	
5				Receipt Temp _____ °C On Ice: Yes <input type="checkbox"/> No <input type="checkbox"/>	
6				Shipped by: Cooler ID#: _____	
7				Custody Seal Y N Initialed Y N Signature Y N Match Y N	
8				Laboratory Use Only weather station set 2 RO806033	
9					
10					
Custody Record MUST be Signed		Requested by (print): Eric Kantz	Date/Time: 6/17/08 06:30	Signature: [Signature]	Received by (print): Steve Haljan
Sample Disposal: _____ Return to Client: _____		Date/Time: 6/16/08 18:50		Signature: [Signature]	

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



ANALYTICAL SUMMARY REPORT

August 21, 2008

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

Workorder No.: R08060427 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 7 samples from RESPEC Inc on 6/25/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08060427-001	DewBurd GW698	06/24/08 11:55	06/25/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08060427-002	DewBurd GW696	06/24/08 15:08	06/25/08	Aqueous	Same As Above
R08060427-003	DewBurd GW694	06/24/08 15:16	06/25/08	Aqueous	Same As Above
R08060427-004	DewBurd GW695	06/24/08 17:30	06/25/08	Aqueous	Same As Above
R08060427-005	DewBurd GW697	06/24/08 18:20	06/25/08	Aqueous	Same As Above
R08060427-006	DewBurd GW3026	06/24/08 20:06	06/25/08	Aqueous	Same As Above



R08060427-007 DewBurd BLK01


06/24/08 20:10 06/25/08

Aqueous

Metals by ICP/ICPMS, Dissolved
Metals by ICP/ICPMS, Suspended
Metals by ICP/ICPMS, Total
Alkalinity
Conductivity
Mercury, Total
Selenium, Dissolved
Selenium, Dissolved
Selenium, Dissolved
Anions by Ion Chromatography
Nitrogen, Ammonia
Oxidation Reduction Potential
pH
Digestion, Total Metals
Digestion, Total Metals
Dissolved Filtration
Digestion, Mercury by CVAA
Gross Alpha, Gross Beta
Gross Gamma, Dissolved
Lead 210, Dissolved
Lead 210, Suspended
Polonium 210, Dissolved
Polonium 210, Suspended
Radium 226, Dissolved
Radium 226, Suspended
Radon 222
Thorium, Isotopic
Thorium, Suspended Isotopic
Solids, Total Dissolved

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



Date: 21-Aug-08

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08060427

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 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.
- 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: C08061394

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: C08061394



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-001
 Client Sample ID: DewBurd GW698

Report Date: 08/21/08
 Collection Date: 06/24/08 11:55
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	114	mg/L		5			1	A2320 B	07/03/08 11:29/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	07/03/08 11:29/mb
Bicarbonate as HCO3	139	mg/L		5			1	A2320 B	07/03/08 11:29/mb
Calcium	393	mg/L		0.5			2	E200.7	07/07/08 18:09/eli-c
Chloride	9	mg/L		1			1	E300.0	06/26/08 21:12/jmh
Fluoride	0.3	mg/L		0.1			1	E300.0	06/26/08 21:12/jmh
Magnesium	141	mg/L		0.5			2	E200.7	07/07/08 18:09/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1			1	A4500-NH3 G	06/25/08 15:44/ch
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/26/08 21:12/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/26/08 21:12/jmh
Potassium	15.9	mg/L		0.5			2	E200.7	07/07/08 18:09/eli-c
Silica	5.5	mg/L		0.5			2	E200.7	07/07/08 18:09/eli-c
Sodium	89	mg/L	D	2			2	E200.7	07/07/08 18:09/eli-c
Sulfate	1470	mg/L		1			20	E300.0	06/26/08 20:56/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	2530	umhos/cm		5.0			1	A2510 B	07/01/08 11:07/tb
Oxidation-Reduction Potential	94	mV					1	A2580 B	06/27/08 00:00/jmh
pH	7.09	s.u.		0.01			1	A4500-H B	07/01/08 10:03/tb
Sodium Adsorption Ratio (SAR)	0.98	unitless		0.10			1	Calculation	08/21/08 16:50/ADM
Solids, Total Dissolved TDS @ 180 C	2100	mg/L		5			1	A2540 C	06/27/08 11:54/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/07/08 18:09/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	07/15/08 18:06/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/07/08 18:09/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/07/08 18:09/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/15/08 18:06/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/07/08 18:09/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/15/08 18:06/eli-c
Iron	1.60	mg/L		0.03			2	E200.7	07/07/08 18:09/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/15/08 18:06/eli-c
Manganese	2.56	mg/L		0.01			2	E200.7	07/07/08 18:09/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/15/08 18:06/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/07/08 18:09/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/07/08 18:09/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/19/08 16:11/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/15/08 18:06/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060427-001
 Client Sample ID: DewBurd GW698

Report Date: 08/21/08
 Collection Date: 06/24/08 11:55
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/15/08 18:06/eli-c
Uranium	0.104	mg/L		0.0003		1	E200.8 07/15/08 18:06/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/07/08 18:09/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7 07/07/08 18:09/eli-c
METALS - SUSPENDED							
Uranium	0.0043	mg/L		0.0003		1	E200.8 07/10/08 12:15/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/19/08 13:13/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/19/08 14:40/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1790	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Gross Alpha precision (±)	40.7	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Gross Alpha MDC	8.0	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Gross Beta	470	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Gross Beta precision (±)	11.1	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Gross Beta MDC	8.7	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Lead 210	-1.7	pCi/L	U			1	E909.0M 07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Lead 210 precision (±)	6.7	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Polonium 210	1.1	pCi/L		1.0		1	RMO-3008 07/14/08 17:45/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1	RMO-3008 07/14/08 17:45/eli-c
Radium 226	429	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Radium 226 precision (±)	4.4	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 07/28/08 15:49/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0 07/28/08 15:49/eli-c
Gross Gamma	170	pCi/L		20		1	E901.1 07/17/08 13:12/eli-c
Gross Gamma precision (±)	38	pCi/L				1	E901.1 07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	7.4	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	1.2	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	11.6	pCi/L				1	E903.0 07/15/08 23:30/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060427-001
 Client Sample ID: DewBurd GW698

Report Date: 08/21/08
 Collection Date: 06/24/08 11:55
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	1.1	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	0.7	pCi/L		0.2			1	E907.0	07/10/08 19:50/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	07/10/08 19:50/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	40700	pCi/L		100			1	D5072-92	07/02/08 04:29/eli-c
Radon 222 precision (±)	418	pCi/L					1	D5072-92	07/02/08 04:29/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/17/08 00:31/eli-c
Arsenic	0.005	mg/L	D	0.003			10	E200.8	07/17/08 00:31/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/08/08 02:29/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	07/17/08 13:41/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/08/08 02:29/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/17/08 00:31/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/08/08 02:29/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/08/08 02:29/eli-c
Iron	5.48	mg/L		0.03			2	E200.7	07/08/08 02:29/eli-c
Lead	0.001	mg/L		0.001			10	E200.8	07/17/08 00:31/eli-c
Manganese	2.66	mg/L		0.01			2	E200.7	07/08/08 02:29/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/07/08 21:18/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/08/08 02:29/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/08/08 02:29/eli-c
Selenium	ND	mg/L	D	0.002			10	E200.8	07/17/08 00:31/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/17/08 13:41/eli-c
Strontium	5.2	mg/L		0.1			2	E200.7	07/08/08 02:29/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/17/08 00:31/eli-c
Uranium	0.113	mg/L		0.0003			10	E200.8	07/17/08 00:31/eli-c
Zinc	0.01	mg/L		0.01			2	E200.7	07/08/08 02:29/eli-c
DATA QUALITY									
A/C Balance (± 5)	3.88	%					1	A1030 E	08/21/08 00:00/lkl
Anions	33.1	meq/L					1	A1030 E	08/21/08 00:00/lkl
Cations	35.8	meq/L					1	A1030 E	08/21/08 00:00/lkl
Solids, Total Dissolved Calculated	2200	mg/L					1	A1030 E	08/21/08 00:00/lkl
TDS Balance (0.80 - 1.20)	0.970						1	A1030 E	08/21/08 00:00/lkl

Report RL - Analyte reporting limit.
 Definitions: 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: R08060427-002
 Client Sample ID: DewBurd GW696

Report Date: 08/21/08
 Collection Date: 06/24/08 15:08
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	174	mg/L		5			1	A2320 B	07/03/08 11:32/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	07/03/08 11:32/mb
Bicarbonate as HCO3	212	mg/L		5			1	A2320 B	07/03/08 11:32/mb
Calcium	31.6	mg/L		0.5			2	E200.7	07/07/08 18:22/eli-c
Chloride	12	mg/L		1			1	E300.0	06/26/08 21:45/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	06/26/08 21:45/jmh
Magnesium	11.1	mg/L		0.5			2	E200.7	07/07/08 18:22/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1			1	A4500-NH3 G	06/25/08 15:47/ch
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/26/08 21:45/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/26/08 21:45/jmh
Potassium	9.4	mg/L		0.5			2	E200.7	07/07/08 18:22/eli-c
Silica	5.0	mg/L		0.5			2	E200.7	07/07/08 18:22/eli-c
Sodium	295	mg/L	D	2			2	E200.7	07/07/08 18:22/eli-c
Sulfate	456	mg/L		1			20	E300.0	06/26/08 21:29/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1390	umhos/cm		5.0			1	A2510 B	07/01/08 11:07/tb
Oxidation-Reduction Potential	99	mV					1	A2580 B	06/27/08 00:00/jmh
pH	8.29	s.u.		0.01			1	A4500-H B	07/01/08 10:04/tb
Sodium Adsorption Ratio (SAR)	12	unitless		0.10			1	Calculation	08/21/08 16:50/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5			1	A2540 C	06/27/08 11:56/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/07/08 18:22/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	07/15/08 18:39/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/07/08 18:22/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/07/08 18:22/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/15/08 18:39/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/07/08 18:22/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/15/08 18:39/eli-c
Iron	0.10	mg/L		0.03			2	E200.7	07/07/08 18:22/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/15/08 18:39/eli-c
Manganese	0.07	mg/L		0.01			2	E200.7	07/07/08 18:22/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/15/08 18:39/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/07/08 18:22/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/07/08 18:22/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/19/08 16:13/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/15/08 18:39/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060427-002
 Client Sample ID: DewBurd GW696

Report Date: 08/21/08
 Collection Date: 06/24/08 15:08
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	07/15/08 18:39/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/15/08 18:39/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/07/08 18:22/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/07/08 18:22/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/10/08 12:20/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 13:15/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:40/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	23.9	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Alpha precision (±)	4.0	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Alpha MDC	4.0	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta	9.9	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta precision (±)	2.4	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta MDC	3.8	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Lead 210	-5.3	pCi/L	U			1	E909.0M	07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L				1	E909.0M	07/11/08 07:20/eli-c
Lead 210 precision (±)	6.7	pCi/L				1	E909.0M	07/11/08 07:20/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1	RMO-3008	07/14/08 17:45/eli-c
Radium 226	3.3	pCi/L				1	E903.0	07/21/08 22:27/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	07/21/08 22:27/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/28/08 20:05/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	07/28/08 20:05/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	5.6	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	0.5	pCi/L	U	1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.50	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

Report RL - Analyte reporting limit.
 Definitions: 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: R08060427-002
Client Sample ID: DewBurd GW696

Report Date: 08/21/08
Collection Date: 06/24/08 15:08
Date Received: 06/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
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 (±)	0.06	pCi/L				1 E907.0	07/10/08 19:50/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	517	pCi/L		100		1 D5072-92	07/02/08 04:29/eli-c
Radon 222 precision (±)	136	pCi/L				1 D5072-92	07/02/08 04:29/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		10 E200.8	07/17/08 00:38/eli-c
Arsenic	ND	mg/L	D	0.002		10 E200.8	07/17/08 00:38/eli-c
Barium	ND	mg/L		0.1		2 E200.7	07/08/08 02:34/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	07/17/08 14:08/eli-c
Boron	ND	mg/L		0.1		2 E200.7	07/08/08 02:34/eli-c
Cadmium	ND	mg/L		0.005		10 E200.8	07/17/08 00:38/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	07/08/08 02:34/eli-c
Copper	ND	mg/L		0.01		2 E200.7	07/08/08 02:34/eli-c
Iron	0.67	mg/L		0.03		2 E200.7	07/08/08 02:34/eli-c
Lead	ND	mg/L		0.001		10 E200.8	07/17/08 00:38/eli-c
Manganese	0.07	mg/L		0.01		2 E200.7	07/08/08 02:34/eli-c
Mercury	ND	mg/L		0.0002		1 E245.1	07/09/08 11:42/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	07/08/08 02:34/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	07/08/08 02:34/eli-c
Selenium	ND	mg/L	D	0.002		10 E200.8	07/17/08 00:38/eli-c
Silver	ND	mg/L		0.005		1 E200.8	07/17/08 14:08/eli-c
Strontium	0.8	mg/L		0.1		2 E200.7	07/08/08 02:34/eli-c
Thallium	ND	mg/L		0.001		10 E200.8	07/17/08 00:38/eli-c
Uranium	ND	mg/L		0.0003		10 E200.8	07/17/08 00:38/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	07/08/08 02:34/eli-c
DATA QUALITY							
A/C Balance (± 5)	7.89	%				1 A1030 E	08/21/08 00:00/lkl
Anions	13.3	meq/L				1 A1030 E	08/21/08 00:00/lkl
Cations	15.6	meq/L				1 A1030 E	08/21/08 00:00/lkl
Solids, Total Dissolved Calculated	934	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 RL - Analyte reporting limit.
Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-003
 Client Sample ID: DewBurd GW694

Report Date: 08/21/08
 Collection Date: 06/24/08 15:16
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	206	mg/L		5			1	A2320 B	07/03/08 11:36/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	07/03/08 11:36/mb
Bicarbonate as HCO3	251	mg/L		5			1	A2320 B	07/03/08 11:36/mb
Calcium	103	mg/L		0.5			2	E200.7	07/07/08 18:38/eli-c
Chloride	9	mg/L		1			1	E300.0	06/26/08 22:18/jmh
Fluoride	0.3	mg/L		0.1			1	E300.0	06/26/08 22:18/jmh
Magnesium	37.1	mg/L		0.5			2	E200.7	07/07/08 18:38/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	06/25/08 15:48/ch
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/26/08 22:18/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/26/08 22:18/jmh
Potassium	13.6	mg/L		0.5			2	E200.7	07/07/08 18:38/eli-c
Silica	4.6	mg/L		0.5			2	E200.7	07/07/08 18:38/eli-c
Sodium	180	mg/L	D	2			2	E200.7	07/07/08 18:38/eli-c
Sulfate	486	mg/L		1			20	E300.0	06/26/08 22:02/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1400	umhos/cm		5.0			1	A2510 B	07/01/08 11:08/tb
Oxidation-Reduction Potential	140	mV					1	A2580 B	06/27/08 00:00/jmh
pH	7.82	s.u.		0.01			1	A4500-H B	07/01/08 10:05/tb
Sodium Adsorption Ratio (SAR)	3.9	unitless		0.10			1	Calculation	08/21/08 16:50/ADM
Solids, Total Dissolved TDS @ 180 C	960	mg/L		5			1	A2540 C	06/27/08 11:57/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/07/08 18:38/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	07/15/08 18:12/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/07/08 18:38/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/07/08 18:38/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/15/08 18:12/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/07/08 18:38/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/15/08 18:12/eli-c
Iron	ND	mg/L		0.03			2	E200.7	07/07/08 18:38/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/15/08 18:12/eli-c
Manganese	0.16	mg/L		0.01			2	E200.7	07/07/08 18:38/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/15/08 18:12/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/07/08 18:38/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/07/08 18:38/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/19/08 16:15/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/15/08 18:12/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060427-003
 Client Sample ID: DewBurd GW694

Report Date: 08/21/08
 Collection Date: 06/24/08 15:16
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/15/08 18:12/eli-c
Uranium	0.0006	mg/L		0.0003		1	E200.8 07/15/08 18:12/eli-c
Vanadium	0.1	mg/L		0.1		2	E200.7 07/07/08 18:38/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 07/07/08 18:38/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 07/10/08 12:25/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/19/08 13:17/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/19/08 14:40/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	23.7	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Gross Alpha precision (±)	4.0	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Gross Alpha MDC	3.9	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Gross Beta	15.0	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Gross Beta precision (±)	2.5	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Gross Beta MDC	3.8	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Lead 210	-0.1	pCi/L	U			1	E909.0M 07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Lead 210 precision (±)	6.8	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008 07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1	RMO-3008 07/14/08 17:45/eli-c
Radium 226	2.2	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0 07/29/08 12:45/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 07/29/08 12:45/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1 07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1 07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	4.8	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	0.0	pCi/L	U	1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.19	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0 07/15/08 23:30/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060427-003
 Client Sample ID: DewBurd GW694

Report Date: 08/21/08
 Collection Date: 06/24/08 15:16
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
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	0.0	pCi/L	U	0.2			1	E907.0	07/11/08 17:07/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/11/08 17:07/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	611	pCi/L		100			1	D5072-92	07/02/08 04:29/eli-c
Radon 222 precision (±)	137	pCi/L					1	D5072-92	07/02/08 04:29/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/17/08 00:45/eli-c
Arsenic	ND	mg/L	D	0.003			10	E200.8	07/17/08 00:45/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/08/08 02:38/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	07/17/08 14:15/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/08/08 02:38/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/17/08 00:45/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/08/08 02:38/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/08/08 02:38/eli-c
Iron	0.14	mg/L		0.03			2	E200.7	07/08/08 02:38/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/17/08 00:45/eli-c
Manganese	0.16	mg/L		0.01			2	E200.7	07/08/08 02:38/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/09/08 11:49/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/08/08 02:38/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/08/08 02:38/eli-c
Selenium	ND	mg/L	D	0.002			10	E200.8	07/17/08 00:45/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/17/08 14:15/eli-c
Strontium	2.9	mg/L		0.1			2	E200.7	07/08/08 02:38/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/17/08 00:45/eli-c
Uranium	0.0006	mg/L		0.0003			10	E200.8	07/17/08 00:45/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/08/08 02:38/eli-c
DATA QUALITY									
A/C Balance (± 5)	6.22	%					1	A1030 E	08/21/08 00:00/kl
Anions	14.5	meq/L					1	A1030 E	08/21/08 00:00/kl
Cations	16.4	meq/L					1	A1030 E	08/21/08 00:00/kl
Solids, Total Dissolved Calculated	965	mg/L					1	A1030 E	08/21/08 00:00/kl
TDS Balance (0.80 - 1.20)	1.00						1	A1030 E	08/21/08 00:00/kl

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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-004
 Client Sample ID: DewBurd GW695

Report Date: 08/21/08
 Collection Date: 06/24/08 17:30
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	174	mg/L		5			1	A2320 B	07/03/08 11:40/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	07/03/08 11:40/mb
Bicarbonate as HCO3	212	mg/L		5			1	A2320 B	07/03/08 11:40/mb
Calcium	52.5	mg/L		0.5			2	E200.7	07/07/08 18:42/eli-c
Chloride	11	mg/L		1			1	E300.0	06/26/08 23:57/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	06/26/08 23:57/jmh
Magnesium	18.8	mg/L		0.5			2	E200.7	07/07/08 18:42/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1			1	A4500-NH3 G	06/25/08 15:49/ch
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/26/08 23:57/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/26/08 23:57/jmh
Potassium	8.7	mg/L		0.5			2	E200.7	07/07/08 18:42/eli-c
Silica	4.4	mg/L		0.5			2	E200.7	07/07/08 18:42/eli-c
Sodium	250	mg/L	D	2			2	E200.7	07/07/08 18:42/eli-c
Sulfate	442	mg/L		1			20	E300.0	06/26/08 23:07/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1380	umhos/cm		5.0			1	A2510 B	07/01/08 11:09/tb
Oxidation-Reduction Potential	120	mV					1	A2580 B	06/27/08 00:00/jmh
pH	8.14	s.u.		0.01			1	A4500-H B	07/01/08 10:05/tb
Sodium Adsorption Ratio (SAR)	7.5	unitless		0.10			1	Calculation	08/21/08 16:50/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5			1	A2540 C	06/27/08 11:57/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/07/08 18:42/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	07/15/08 17:59/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/07/08 18:42/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/07/08 18:42/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/15/08 17:59/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/07/08 18:42/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/15/08 17:59/eli-c
Iron	ND	mg/L		0.03			2	E200.7	07/07/08 18:42/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/15/08 17:59/eli-c
Manganese	0.08	mg/L		0.01			2	E200.7	07/07/08 18:42/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/15/08 17:59/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/07/08 18:42/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/07/08 18:42/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/19/08 16:17/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/15/08 17:59/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060427-004
 Client Sample ID: DewBurd GW695

Report Date: 08/21/08
 Collection Date: 06/24/08 17:30
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	07/15/08 17:59/eli-c
Uranium	0.0027	mg/L		0.0003		1	E200.8	07/15/08 17:59/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/07/08 18:42/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/07/08 18:42/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/10/08 12:30/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 13:19/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:40/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	39.7	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Alpha precision (±)	4.8	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Alpha MDC	4.0	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta	11.0	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta precision (±)	2.2	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta MDC	3.3	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Lead 210	0.7	pCi/L	U			1	E909.0M	07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L				1	E909.0M	07/11/08 07:20/eli-c
Lead 210 precision (±)	6.8	pCi/L				1	E909.0M	07/11/08 07:20/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	07/14/08 17:45/eli-c
Radium 226	5.2	pCi/L				1	E903.0	07/21/08 22:27/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	07/21/08 22:27/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/28/08 20:05/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	07/28/08 20:05/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	2.9	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	0.0	pCi/L	U	1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.17	pCi/L				1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.1	pCi/L	U			1	E903.0	07/15/08 23:30/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060427-004
 Client Sample ID: DewBurd GW695

Report Date: 08/21/08
 Collection Date: 06/24/08 17:30
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
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	07/11/08 17:07/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	07/11/08 17:07/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	2120	pCi/L		100			1	D5072-92	07/02/08 04:29/eli-c
Radon 222 precision (±)	154	pCi/L					1	D5072-92	07/02/08 04:29/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/17/08 00:51/eli-c
Arsenic	ND	mg/L		0.001			10	E200.8	07/17/08 00:51/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/08/08 02:42/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	07/17/08 14:22/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/08/08 02:42/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/17/08 00:51/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/08/08 02:42/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/08/08 02:42/eli-c
Iron	0.12	mg/L		0.03			2	E200.7	07/08/08 02:42/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/17/08 00:51/eli-c
Manganese	0.08	mg/L		0.01			2	E200.7	07/08/08 02:42/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/09/08 11:51/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/08/08 02:42/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/08/08 02:42/eli-c
Selenium	ND	mg/L	D	0.002			10	E200.8	07/17/08 00:51/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/17/08 14:22/eli-c
Strontium	1.0	mg/L		0.1			2	E200.7	07/08/08 02:42/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/17/08 00:51/eli-c
Uranium	0.0027	mg/L		0.0003			10	E200.8	07/17/08 00:51/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/08/08 02:42/eli-c
DATA QUALITY									
A/C Balance (± 5)	7.98	%					1	A1030 E	08/21/08 00:00/kl
Anions	13.0	meq/L					1	A1030 E	08/21/08 00:00/kl
Cations	15.3	meq/L					1	A1030 E	08/21/08 00:00/kl
Solids, Total Dissolved Calculated	901	mg/L					1	A1030 E	08/21/08 00:00/kl
TDS Balance (0.80 - 1.20)	1.02						1	A1030 E	08/21/08 00:00/kl

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 12 of 21
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-005
 Client Sample ID: DewBurd GW697

Report Date: 08/21/08
 Collection Date: 06/24/08 18:20
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	168	mg/L		5		1	A2320 B 07/03/08 11:42/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/03/08 11:42/mb
Bicarbonate as HCO3	205	mg/L		5		1	A2320 B 07/03/08 11:42/mb
Calcium	53.4	mg/L		0.5		2	E200.7 07/07/08 18:46/eli-c
Chloride	8	mg/L		1		1	E300.0 06/27/08 00:29/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0 06/27/08 00:29/jmh
Magnesium	17.7	mg/L		0.5		2	E200.7 07/07/08 18:46/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G 06/25/08 15:51/ch
Nitrogen, Nitrate as N	0.1	mg/L		0.1		1	E300.0 06/27/08 00:29/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 06/27/08 00:29/jmh
Potassium	8.8	mg/L		0.5		2	E200.7 07/07/08 18:46/eli-c
Silica	4.6	mg/L		0.5		2	E200.7 07/07/08 18:46/eli-c
Sodium	218	mg/L	D	2		2	E200.7 07/07/08 18:46/eli-c
Sulfate	409	mg/L		1		20	E300.0 06/27/08 00:13/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1230	umhos/cm		5.0		1	A2510 B 07/01/08 11:10/tb
Oxidation-Reduction Potential	140	mV				1	A2580 B 06/27/08 00:00/jmh
pH	8.25	s.u.		0.01		1	A4500-H B 07/01/08 10:07/tb
Sodium Adsorption Ratio (SAR)	6.6	unitless		0.10		1	Calculation 08/21/08 16:50/ADM
Solids, Total Dissolved TDS @ 180 C	810	mg/L		5		1	A2540 C 06/27/08 11:58/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 07/07/08 18:46/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 07/15/08 18:19/eli-c
Barium	ND	mg/L		0.1		2	E200.7 07/07/08 18:46/eli-c
Boron	ND	mg/L		0.1		2	E200.7 07/07/08 18:46/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 07/15/08 18:19/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 07/07/08 18:46/eli-c
Copper	ND	mg/L		0.01		1	E200.8 07/15/08 18:19/eli-c
Iron	0.04	mg/L		0.03		2	E200.7 07/07/08 18:46/eli-c
Lead	ND	mg/L		0.001		1	E200.8 07/15/08 18:19/eli-c
Manganese	0.06	mg/L		0.01		2	E200.7 07/07/08 18:46/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 07/15/08 18:19/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 07/07/08 18:46/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 07/07/08 18:46/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 07/19/08 16:19/eli-c
Silver	ND	mg/L		0.005		1	E200.8 07/15/08 18:19/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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.
 Page 13 of 21



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-005
 Client Sample ID: DewBurd GW697

Report Date: 08/21/08
 Collection Date: 06/24/08 18:20
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/15/08 18:19/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 07/15/08 18:19/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/07/08 18:46/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 07/07/08 18:46/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 07/10/08 12:36/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/19/08 13:21/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/19/08 14:40/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	11.9	pCi/L				1	E900.0 07/19/08 22:56/eli-c
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0 07/19/08 22:56/eli-c
Gross Alpha MDC	3.2	pCi/L				1	E900.0 07/19/08 22:56/eli-c
Gross Beta	8.1	pCi/L				1	E900.0 07/19/08 22:56/eli-c
Gross Beta precision (±)	2.1	pCi/L				1	E900.0 07/19/08 22:56/eli-c
Gross Beta MDC	3.3	pCi/L				1	E900.0 07/19/08 22:56/eli-c
Lead 210	0.5	pCi/L	U			1	E909.0M 07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Lead 210 precision (±)	6.8	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008 07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008 07/14/08 17:45/eli-c
Radium 226	0.8	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 07/28/08 20:05/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 07/28/08 20:05/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1 07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1 07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	2.9	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	0.0	pCi/L	U	1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.26	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 01:53/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060427-005
 Client Sample ID: DewBurd GW697

Report Date: 08/21/08
 Collection Date: 06/24/08 18:20
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	07/16/08 01:53/eli-c
Radium 226 MDC	0.4	pCi/L				1 E903.0	07/16/08 01:53/eli-c
Thorium 230	0.2	pCi/L		0.2		1 E907.0	07/11/08 17:07/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	07/11/08 17:07/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	413	pCi/L		100		1 D5072-92	07/02/08 04:29/eli-c
Radon 222 precision (±)	132	pCi/L				1 D5072-92	07/02/08 04:29/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		10 E200.8	07/17/08 02:47/eli-c
Arsenic	0.003	mg/L	D	0.003		10 E200.8	07/17/08 02:47/eli-c
Barium	0.2	mg/L		0.1		2 E200.7	07/08/08 02:46/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	07/17/08 14:29/eli-c
Boron	ND	mg/L		0.1		2 E200.7	07/08/08 02:46/eli-c
Cadmium	ND	mg/L		0.005		10 E200.8	07/17/08 02:47/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	07/08/08 02:46/eli-c
Copper	ND	mg/L		0.01		2 E200.7	07/08/08 02:46/eli-c
Iron	0.08	mg/L		0.03		2 E200.7	07/08/08 02:46/eli-c
Lead	ND	mg/L		0.001		10 E200.8	07/17/08 02:47/eli-c
Manganese	0.06	mg/L		0.01		2 E200.7	07/08/08 02:46/eli-c
Mercury	ND	mg/L		0.0002		1 E245.1	07/09/08 11:53/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	07/08/08 02:46/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	07/08/08 02:46/eli-c
Selenium	0.005	mg/L	D	0.002		10 E200.8	07/17/08 02:47/eli-c
Silver	ND	mg/L		0.005		1 E200.8	07/17/08 14:29/eli-c
Strontium	1.2	mg/L		0.1		2 E200.7	07/08/08 02:46/eli-c
Thallium	ND	mg/L		0.001		10 E200.8	07/17/08 02:47/eli-c
Uranium	ND	mg/L		0.0003		10 E200.8	07/17/08 02:47/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	07/08/08 02:46/eli-c
DATA QUALITY							
A/C Balance (± 5)	6.52	%				1 A1030 E	08/21/08 00:00/kl
Anions	12.1	meq/L				1 A1030 E	08/21/08 00:00/kl
Cations	13.8	meq/L				1 A1030 E	08/21/08 00:00/kl
Solids, Total Dissolved Calculated	829	mg/L				1 A1030 E	08/21/08 00:00/kl
TDS Balance (0.80 - 1.20)	0.970					1 A1030 E	08/21/08 00:00/kl

Report RL - Analyte reporting limit.
 Definitions: 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: R08060427-006
 Client Sample ID: DewBurd GW3026

Report Date: 08/21/08
 Collection Date: 06/24/08 20:06
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	172	mg/L		5			1	A2320 B	07/03/08 11:46/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	07/03/08 11:46/mb
Bicarbonate as HCO3	210	mg/L		5			1	A2320 B	07/03/08 11:46/mb
Calcium	461	mg/L		0.5			2	E200.7	07/07/08 18:50/eli-c
Chloride	15	mg/L		1			1	E300.0	06/27/08 01:02/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	06/27/08 01:02/jmh
Magnesium	137	mg/L		0.5			2	E200.7	07/07/08 18:50/eli-c
Nitrogen, Ammonia as N	0.6	mg/L		0.1			1	A4500-NH3 G	06/25/08 15:52/ch
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/27/08 01:02/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/27/08 01:02/jmh
Potassium	22.3	mg/L		0.5			2	E200.7	07/07/08 18:50/eli-c
Silica	1.9	mg/L		0.5			2	E200.7	07/07/08 18:50/eli-c
Sodium	171	mg/L	D	2			2	E200.7	07/07/08 18:50/eli-c
Sulfate	1790	mg/L		1			20	E300.0	06/27/08 00:46/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	2970	umhos/cm		5.0			1	A2510 B	07/01/08 11:11/tb
Oxidation-Reduction Potential	85	mV					1	A2580 B	06/27/08 00:00/jmh
pH	6.82	s.u.		0.01			1	A4500-H B	07/01/08 10:08/tb
Sodium Adsorption Ratio (SAR)	1.8	unitless		0.10			1	Calculation	08/21/08 16:50/ADM
Solids, Total Dissolved TDS @ 180 C	2700	mg/L		5			1	A2540 C	06/27/08 11:58/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/07/08 18:50/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	07/15/08 18:26/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/07/08 18:50/eli-c
Boron	0.2	mg/L		0.1			2	E200.7	07/07/08 18:50/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/15/08 18:26/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/07/08 18:50/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/15/08 18:26/eli-c
Iron	0.04	mg/L		0.03			2	E200.7	07/07/08 18:50/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/15/08 18:26/eli-c
Manganese	1.42	mg/L		0.01			2	E200.7	07/07/08 18:50/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/15/08 18:26/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/07/08 18:50/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/07/08 18:50/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/19/08 16:21/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/15/08 18:26/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060427-006
 Client Sample ID: DewBurd GW3026

Report Date: 08/21/08
 Collection Date: 06/24/08 20:06
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	07/15/08 18:26/eli-c
Uranium	0.0183	mg/L		0.0003			1	E200.8	07/15/08 18:26/eli-c
Vanadium	0.1	mg/L		0.1			2	E200.7	07/07/08 18:50/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/07/08 18:50/eli-c
METALS - SUSPENDED									
Uranium	0.0015	mg/L		0.0003			1	E200.8	07/10/08 12:41/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	07/19/08 13:25/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	07/19/08 14:40/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	116	pCi/L					1	E900.0	07/19/08 22:56/eli-c
Gross Alpha precision (±)	12.8	pCi/L					1	E900.0	07/19/08 22:56/eli-c
Gross Alpha MDC	9.9	pCi/L					1	E900.0	07/19/08 22:56/eli-c
Gross Beta	33.9	pCi/L					1	E900.0	07/19/08 22:56/eli-c
Gross Beta precision (±)	6.9	pCi/L					1	E900.0	07/19/08 22:56/eli-c
Gross Beta MDC	10.5	pCi/L					1	E900.0	07/19/08 22:56/eli-c
Lead 210	-5.3	pCi/L	U				1	E909.0M	07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L					1	E909.0M	07/11/08 07:20/eli-c
Lead 210 precision (±)	6.7	pCi/L					1	E909.0M	07/11/08 07:20/eli-c
Polonium 210	0.2	pCi/L	U	1.0			1	RMO-3008	07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.60	pCi/L					1	RMO-3008	07/14/08 17:45/eli-c
Radium 226	4.7	pCi/L					1	E903.0	07/22/08 00:40/eli-c
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	07/22/08 00:40/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/28/08 20:06/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	07/28/08 20:06/eli-c
Gross Gamma	0.0	pCi/L	U	20			1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L					1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	6.9	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	0.2	pCi/L	U	1.0			1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.36	pCi/L					1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.1	pCi/L	U				1	E903.0	07/16/08 01:53/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060427-006
 Client Sample ID: DewBurd GW3026

Report Date: 08/21/08
 Collection Date: 06/24/08 20:06
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/16/08 01:53/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	07/16/08 01:53/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/11/08 17:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/11/08 17:06/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	950	pCi/L		100			1	D5072-92	07/02/08 04:29/eli-c
Radon 222 precision (±)	137	pCi/L					1	D5072-92	07/02/08 04:29/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/17/08 02:54/eli-c
Arsenic	0.025	mg/L		0.001			10	E200.8	07/17/08 02:54/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/08/08 02:50/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	07/17/08 14:36/eli-c
Boron	0.2	mg/L		0.1			2	E200.7	07/08/08 02:50/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/17/08 02:54/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/08/08 02:50/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/08/08 02:50/eli-c
Iron	21.8	mg/L		0.03			2	E200.7	07/08/08 02:50/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/17/08 02:54/eli-c
Manganese	1.46	mg/L		0.01			2	E200.7	07/08/08 02:50/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/09/08 11:56/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/08/08 02:50/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/08/08 02:50/eli-c
Selenium	0.005	mg/L	D	0.002			10	E200.8	07/17/08 02:54/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/17/08 14:36/eli-c
Strontium	7.4	mg/L		0.1			2	E200.7	07/08/08 02:50/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/17/08 02:54/eli-c
Uranium	0.0216	mg/L		0.0003			10	E200.8	07/17/08 02:54/eli-c
Zinc	0.01	mg/L		0.01			2	E200.7	07/08/08 02:50/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.44	%					1	A1030 E	08/21/08 00:00/kl
Anions	41.2	meq/L					1	A1030 E	08/21/08 00:00/kl
Cations	42.4	meq/L					1	A1030 E	08/21/08 00:00/kl
Solids, Total Dissolved Calculated	2710	mg/L					1	A1030 E	08/21/08 00:00/kl
TDS Balance (0.80 - 1.20)	1.01						1	A1030 E	08/21/08 00:00/kl

Report: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 18 of 21
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-007
 Client Sample ID: DewBurd BLK01

Report Date: 08/21/08
 Collection Date: 06/24/08 20:10
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B 07/03/08 11:47/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/03/08 11:47/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B 07/03/08 11:47/mb
Calcium	ND	mg/L		0.5		2	E200.7 07/07/08 18:54/eli-c
Chloride	ND	mg/L		1		1	E300.0 06/28/08 05:29/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0 06/28/08 05:29/jmh
Magnesium	ND	mg/L		0.5		2	E200.7 07/07/08 18:54/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 06/25/08 15:53/ch
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 06/27/08 01:19/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 06/27/08 01:19/jmh
Potassium	ND	mg/L		0.5		2	E200.7 07/07/08 18:54/eli-c
Silica	ND	mg/L		0.5		2	E200.7 07/07/08 18:54/eli-c
Sodium	ND	mg/L	D	2		2	E200.7 07/07/08 18:54/eli-c
Sulfate	1	mg/L		1		1	E300.0 06/28/08 05:29/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	10.9	umhos/cm		5.0		1	A2510 B 07/01/08 11:12/tb
Oxidation-Reduction Potential	360	mV				1	A2580 B 06/27/08 00:00/jmh
pH	4.52	s.u.		0.01		1	A4500-H B 07/01/08 10:10/tb
Solids, Total Dissolved TDS @ 180 C	20	mg/L		5		1	A2540 C 06/27/08 11:59/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 07/07/08 18:54/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 07/15/08 18:33/eli-c
Barium	ND	mg/L		0.1		2	E200.7 07/07/08 18:54/eli-c
Boron	ND	mg/L		0.1		2	E200.7 07/07/08 18:54/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 07/15/08 18:33/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 07/07/08 18:54/eli-c
Copper	ND	mg/L		0.01		1	E200.8 07/15/08 18:33/eli-c
Iron	ND	mg/L		0.03		2	E200.7 07/07/08 18:54/eli-c
Lead	ND	mg/L		0.001		1	E200.8 07/15/08 18:33/eli-c
Manganese	ND	mg/L		0.01		2	E200.7 07/07/08 18:54/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 07/15/08 18:33/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 07/07/08 18:54/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 07/07/08 18:54/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 07/19/08 16:23/eli-c
Silver	ND	mg/L		0.005		1	E200.8 07/15/08 18:33/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 07/15/08 18:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060427-007
 Client Sample ID: DewBurd BLK01

Report Date: 08/21/08
 Collection Date: 06/24/08 20:10
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/15/08 18:33/eli-c
Vanadium	0.2	mg/L		0.1		2	E200.7	07/07/08 18:54/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/07/08 18:54/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/10/08 12:46/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 13:27/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:40/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1.7	pCi/L				1	E900.0	07/19/08 22:56/eli-c
Gross Alpha precision (±)	0.7	pCi/L				1	E900.0	07/19/08 22:56/eli-c
Gross Alpha MDC	0.9	pCi/L				1	E900.0	07/19/08 22:56/eli-c
Gross Beta	1.4	pCi/L	U			1	E900.0	07/19/08 22:56/eli-c
Gross Beta precision (±)	1.5	pCi/L				1	E900.0	07/19/08 22:56/eli-c
Gross Beta MDC	2.5	pCi/L				1	E900.0	07/19/08 22:56/eli-c
Lead 210	-3.4	pCi/L	U			1	E909.0M	07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L				1	E909.0M	07/11/08 07:20/eli-c
Lead 210 precision (±)	6.7	pCi/L				1	E909.0M	07/11/08 07:20/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1	RMO-3008	07/14/08 17:45/eli-c
Radium 226	-0.06	pCi/L	U			1	E903.0	07/22/08 00:40/eli-c
Radium 226 precision (±)	0.09	pCi/L				1	E903.0	07/22/08 00:40/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/28/08 20:06/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	07/28/08 20:06/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	3.5	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	0.1	pCi/L	U	1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.38	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 01:53/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	07/16/08 01:53/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060427-007
 Client Sample ID: DewBurd BLK01

Report Date: 08/21/08
 Collection Date: 06/24/08 20:10
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.5	pCi/L					1	E903.0	07/16/08 01:53/eli-c
Thorium 230	0.2	pCi/L		0.2			1	E907.0	07/11/08 17:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/11/08 17:06/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	362	pCi/L		100			1	D5072-92	07/02/08 04:29/eli-c
Radon 222 precision (±)	129	pCi/L					1	D5072-92	07/02/08 04:29/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	07/10/08 01:43/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	07/10/08 01:43/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/08/08 02:54/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	07/17/08 14:42/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/08/08 02:54/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/10/08 01:43/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/08/08 02:54/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/08/08 02:54/eli-c
Iron	ND	mg/L		0.03			2	E200.7	07/08/08 02:54/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/10/08 01:43/eli-c
Manganese	ND	mg/L		0.01			2	E200.7	07/08/08 02:54/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/09/08 11:58/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/08/08 02:54/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/08/08 02:54/eli-c
Selenium	0.003	mg/L	D	0.002			10	E200.8	07/17/08 03:01/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/17/08 14:42/eli-c
Strontium	ND	mg/L		0.1			2	E200.7	07/08/08 02:54/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	07/10/08 01:43/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	07/10/08 01:43/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/08/08 02:54/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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.
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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080703A-ALK-SEL-W		
Sample ID: LCS1_080703A Alkalinity, Total as CaCO3	Laboratory Control Sample 948	mg/L	5.0	95	90	110			Run: PH_COND1-R_080703A 07/03/08 11:24
Sample ID: MBLK1_080703A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080703A 07/03/08 11:25
Sample ID: R08060452-002AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 246	mg/L	5.0	102	80	120			Run: PH_COND1-R_080703A 07/03/08 11:59
Sample ID: R08060452-002AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 242	mg/L	5.0	98	80	120	1.6	10	Run: PH_COND1-R_080703A 07/03/08 12:01
Method: A2510 B							Batch: 080701_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080701 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080701B 07/01/08 10:58
Sample ID: LCS1-1_080701 Conductivity @ 25 C	Laboratory Control Sample 160	umhos/cm	5.0	107	90	110			Run: PH_COND2-R_080701B 07/01/08 10:59
Sample ID: LCS2-1_080701 Conductivity @ 25 C	Laboratory Control Sample 5200	umhos/cm	5.0	104	90	110			Run: PH_COND2-R_080701B 07/01/08 11:01
Sample ID: MBLK-1_080701 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080701B 07/01/08 11:26
Method: A2540 C							Batch: 080627A-SLDS-TDS-W		
Sample ID: LCS1_080627A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 200	mg/L	5.0	98	90	110			Run: BAL-4-R_080627A 06/27/08 11:42
Sample ID: MBLK1_080627A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						Run: BAL-4-R_080627A 06/27/08 11:44
Sample ID: R08060427-001AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 2400	mg/L	5.0	111	80	120			Run: BAL-4-R_080627A 06/27/08 11:55
Sample ID: R08060427-001AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 2400	mg/L	5.0	113	80	120	0.2	10	Run: BAL-4-R_080627A 06/27/08 11:56
Sample ID: R08060452-002AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 910	mg/L	5.0	117	80	120			Run: BAL-4-R_080627A 06/27/08 12:03
Sample ID: R08060452-002AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 910	mg/L	5.0	118	80	120	0.2	10	Run: BAL-4-R_080627A 06/27/08 12:04

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: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080627-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND1-R_080627A		06/27/08 00:00		
Oxidation-Reduction Potential	470	mV		99	95	105			
Sample ID: R08060427-001F	Sample Duplicate				Run: PH_COND1-R_080627A		06/27/08 00:00		
Oxidation-Reduction Potential	90	mV					4.1	10	
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: C08061335-001AMS	Sample Matrix Spike				Run: SUB-C104481		07/19/08 12:52		
Selenium-IV	0.052	mg/L	0.0010	103	85	115			
Sample ID: C08061335-001AMSD	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	
Sample ID: R08070005-001E	Sample Matrix Spike				Run: SUB-C104481		07/19/08 13:36		
Selenium-IV	0.052	mg/L	0.0010	103	85	115			
Sample ID: R08070005-001E	Sample Matrix Spike Duplicate				Run: SUB-C104481		07/19/08 13:38		
Selenium-IV	0.052	mg/L	0.0010	104	85	115	0.9	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: C08061335-001AMS	Sample Matrix Spike				Run: SUB-C104485		07/19/08 15:52		
Selenium	0.050	mg/L	0.0010	100	85	115			
Sample ID: C08061335-001AMSD	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	
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104485		07/19/08 15:47		
Selenium	0.050	mg/L	0.0010	100	90	110			
Sample ID: R08070005-001E	Sample Matrix Spike				Run: SUB-C104485		07/19/08 16:32		
Selenium	0.055	mg/L	0.0010	110	85	115			
Sample ID: R08070005-001E	Sample Matrix Spike Duplicate				Run: SUB-C104485		07/19/08 16:34		
Selenium	0.055	mg/L	0.0010	109	85	115	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: 08/21/08
 Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 080701_1_PH-W		
Sample ID: LCS_pH-1_080701	Laboratory Control Sample				Run: PH_COND2-R_080701A		07/01/08 10:01		
pH	6.91	s.u.	0.010	101	98.55	101.45			
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: 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: D5072-92							Batch: C_R103730		
Sample ID: C08070002-001ADUP	Sample Duplicate				Run: SUB-C103730		07/02/08 04:29		
Radon 222	225	pCi/L	100				13	30	
Sample ID: MB-R103730	Method Blank				Run: SUB-C103730		07/02/08 04:29		
Radon 222	20	pCi/L							
Sample ID: LCS-R103730	Laboratory Control Sample				Run: SUB-C103730		07/02/08 04:29		
Radon 222	303	pCi/L	100	92	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: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18996		
Sample ID: MB-18996	Method Blank			Run: SUB-C103815			07/08/08 01:32		
Barium	ND	mg/L	0.006						
Boron	0.08	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						
Strontium	ND	mg/L	0.0004						
Zinc	0.003	mg/L	0.001						
Sample ID: LCS3-18996	Laboratory Control Sample			Run: SUB-C103815			07/08/08 01:36		
Barium	0.505	mg/L	0.10	101	85	115			
Boron	0.553	mg/L	0.10	95	85	115			
Chromium	0.512	mg/L	0.050	102	85	115			
Copper	0.516	mg/L	0.010	103	85	115			
Iron	2.59	mg/L	0.030	104	85	115			
Manganese	2.56	mg/L	0.010	103	85	115			
Molybdenum	0.509	mg/L	0.10	102	85	115			
Nickel	0.514	mg/L	0.050	103	85	115			
Strontium	0.533	mg/L	0.10	107	85	115			
Zinc	0.506	mg/L	0.010	101	85	115			
Sample ID: R08060427-007D	Sample Matrix Spike			Run: SUB-C103815			07/08/08 02:58		
Barium	0.526	mg/L	0.10	105	70	130			
Boron	0.512	mg/L	0.10	102	70	130			
Chromium	0.527	mg/L	0.050	105	70	130			
Copper	0.537	mg/L	0.010	107	70	130			
Iron	2.69	mg/L	0.030	107	70	130			
Manganese	2.66	mg/L	0.010	107	70	130			
Molybdenum	0.519	mg/L	0.10	104	70	130			
Nickel	0.523	mg/L	0.050	105	70	130			
Strontium	0.558	mg/L	0.10	112	70	130			
Zinc	0.527	mg/L	0.010	105	70	130			
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate			Run: SUB-C103815			07/08/08 03:02		
Barium	0.504	mg/L	0.10	101	70	130	4.3	20	
Boron	0.495	mg/L	0.10	99	70	130	3.4	20	
Chromium	0.513	mg/L	0.050	103	70	130	2.7	20	
Copper	0.522	mg/L	0.010	104	70	130	2.9	20	
Iron	2.60	mg/L	0.030	104	70	130	3.2	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: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18996		
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate			Run: SUB-C103815			07/08/08 03:02		
Manganese	2.56	mg/L	0.010	102	70	130	4.1	20	
Molybdenum	0.505	mg/L	0.10	101	70	130	2.7	20	
Nickel	0.497	mg/L	0.050	99	70	130	5.1	20	
Strontium	0.545	mg/L	0.10	109	70	130	2.3	20	
Zinc	0.507	mg/L	0.010	101	70	130	3.9	20	
Sample ID: R08060427-007D	Sample Matrix Spike			Run: SUB-C103914			07/09/08 00:09		
Barium	0.510	mg/L	0.10	102	70	130			
Boron	0.493	mg/L	0.10	99	70	130			
Chromium	0.514	mg/L	0.050	103	70	130			
Copper	0.520	mg/L	0.010	104	70	130			
Iron	2.63	mg/L	0.030	105	70	130			
Manganese	2.55	mg/L	0.010	102	70	130			
Molybdenum	0.501	mg/L	0.10	100	70	130			
Nickel	0.507	mg/L	0.050	101	70	130			
Strontium	0.534	mg/L	0.10	107	70	130			
Zinc	0.508	mg/L	0.010	102	70	130			
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate			Run: SUB-C103914			07/09/08 00:13		
Barium	0.502	mg/L	0.10	100	70	130	1.5	20	
Boron	0.489	mg/L	0.10	98	70	130	0.8	20	
Chromium	0.504	mg/L	0.050	101	70	130	1.9	20	
Copper	0.504	mg/L	0.010	101	70	130	3.1	20	
Iron	2.69	mg/L	0.030	108	70	130	2.3	20	
Manganese	2.53	mg/L	0.010	101	70	130	0.6	20	
Molybdenum	0.504	mg/L	0.10	101	70	130	0.7	20	
Nickel	0.503	mg/L	0.050	101	70	130	0.8	20	
Strontium	0.541	mg/L	0.10	108	70	130	1.3	20	
Zinc	0.507	mg/L	0.010	101	70	130	0.3	20	
Sample ID: R08060427-007D	Sample Matrix Spike			Run: SUB-C104107			07/11/08 17:32		
Barium	0.521	mg/L	0.10	104	70	130			
Boron	0.566	mg/L	0.10	104	70	130			
Chromium	0.528	mg/L	0.050	106	70	130			
Copper	0.532	mg/L	0.010	104	70	130			
Iron	2.69	mg/L	0.030	108	70	130			
Manganese	2.65	mg/L	0.010	106	70	130			
Molybdenum	0.520	mg/L	0.10	104	70	130			
Nickel	0.514	mg/L	0.050	103	70	130			
Strontium	0.543	mg/L	0.10	109	70	130			
Zinc	0.528	mg/L	0.010	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: 08/21/08
Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18996		
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate			Run: SUB-C104107			07/11/08 17:36		
Barium	0.524	mg/L	0.10	105	70	130	0.7	20	
Boron	0.572	mg/L	0.10	106	70	130	1.1	20	
Chromium	0.534	mg/L	0.050	107	70	130	1.1	20	
Copper	0.539	mg/L	0.010	106	70	130	1.2	20	
Iron	2.77	mg/L	0.030	111	70	130	2.9	20	
Manganese	2.70	mg/L	0.010	108	70	130	1.7	20	
Molybdenum	0.520	mg/L	0.10	104	70	130	0.1	20	
Nickel	0.523	mg/L	0.050	105	70	130	1.8	20	
Strontium	0.530	mg/L	0.10	106	70	130	2.5	20	
Zinc	0.534	mg/L	0.010	106	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: 08/21/08
Work Order: R08060427

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						
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			
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: R08060427-001C	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			
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			

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: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103815		
Sample ID: R08060427-001C	Sample Matrix Spike			Run: SUB-C103815			07/07/08 18:14		
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: R08060427-001C	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	
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	
Sample ID: C08061166-001BMS2	Sample Matrix Spike			Run: SUB-C103815			07/07/08 19:02		
Aluminum	1.09	mg/L	0.10	109	70	130			
Barium	1.03	mg/L	0.10	102	70	130			
Boron	1.24	mg/L	0.10	104	70	130			
Calcium	57.4	mg/L	0.50	109	70	130			
Chromium	1.07	mg/L	0.050	107	70	130			
Iron	1.18	mg/L	0.030	108	70	130			
Magnesium	55.1	mg/L	0.50	110	70	130			
Manganese	1.05	mg/L	0.010	105	70	130			
Molybdenum	0.948	mg/L	0.10	95	70	130			
Nickel	1.07	mg/L	0.050	107	70	130			
Potassium	47.8	mg/L	0.50	95	70	130			
Silica	5.46	mg/L	0.10		70	130			A
Sodium	186	mg/L	0.77	94	70	130			
Vanadium	1.17	mg/L	0.10	105	70	130			

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103815		
Sample ID: C08061166-001BMS2		Sample Matrix Spike			Run: SUB-C103815		07/07/08 19:02		
Zinc	1.07	mg/L	0.010	107	70	130			
Sample ID: C08061166-001BMSD2		Sample Matrix Spike Duplicate			Run: SUB-C103815		07/07/08 19:06		
Aluminum	1.05	mg/L	0.10	105	70	130	3.7	20	
Barium	1.00	mg/L	0.10	99	70	130	2.3	20	
Boron	1.22	mg/L	0.10	102	70	130	1.6	20	
Calcium	56.7	mg/L	0.50	108	70	130	1.3	20	
Chromium	1.04	mg/L	0.050	104	70	130	2.6	20	
Iron	1.18	mg/L	0.030	107	70	130	0.5	20	
Magnesium	53.9	mg/L	0.50	108	70	130	2.2	20	
Manganese	1.03	mg/L	0.010	103	70	130	2.1	20	
Molybdenum	0.991	mg/L	0.10	99	70	130	4.5	20	
Nickel	1.03	mg/L	0.050	103	70	130	3.5	20	
Potassium	47.7	mg/L	0.50	95	70	130	0.1	20	
Silica	5.41	mg/L	0.10		70	130	0.9	20	A
Sodium	188	mg/L	0.77	98	70	130	1.2	20	
Vanadium	1.12	mg/L	0.10	101	70	130	3.9	20	
Zinc	1.05	mg/L	0.010	104	70	130	2.2	20	
Sample ID: C08060943-002BMS2		Sample Matrix Spike			Run: SUB-C103815		07/07/08 19:39		
Aluminum	8.45	mg/L	0.10		70	130			A
Barium	1.36	mg/L	0.10	102	70	130			
Boron	1.12	mg/L	0.10	106	70	130			
Chromium	1.08	mg/L	0.050	107	70	130			
Iron	13.4	mg/L	0.030		70	130			A
Manganese	1.61	mg/L	0.010	103	70	130			
Molybdenum	1.00	mg/L	0.10	100	70	130			
Nickel	1.08	mg/L	0.050	106	70	130			
Vanadium	1.13	mg/L	0.10	107	70	130			
Zinc	1.14	mg/L	0.010	107	70	130			
Calcium	87.5	mg/L	1.0	107	70	130			
Magnesium	66.9	mg/L	1.0	109	70	130			
Potassium	63.7	mg/L	1.0	87	70	130			
Silica	21.1	mg/L	0.10		70	130			A
Sodium	56.5	mg/L	1.0	105	70	130			
Sample ID: C08060943-002BMSD2		Sample Matrix Spike Duplicate			Run: SUB-C103815		07/07/08 19:43		
Aluminum	8.21	mg/L	0.10		70	130	2.8	20	A
Barium	1.35	mg/L	0.10	100	70	130	1.1	20	
Boron	1.13	mg/L	0.10	106	70	130	0.5	20	
Chromium	1.08	mg/L	0.050	107	70	130	0.3	20	

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103815		
Sample ID: C08060943-002BMSD2	Sample Matrix Spike Duplicate			Run: SUB-C103815			07/07/08 19:43		
Iron	13.3	mg/L	0.030		70	130	0.5	20	A
Manganese	1.60	mg/L	0.010	101	70	130	1.1	20	
Molybdenum	1.01	mg/L	0.10	101	70	130	1.1	20	
Nickel	1.08	mg/L	0.050	106	70	130	0.4	20	
Vanadium	1.12	mg/L	0.10	106	70	130	1.1	20	
Zinc	1.12	mg/L	0.010	105	70	130	2.3	20	
Calcium	88.4	mg/L	1.0	109	70	130	1.0	20	
Magnesium	65.8	mg/L	1.0	106	70	130	1.7	20	
Potassium	64.7	mg/L	1.0	89	70	130	1.4	20	
Silica	20.8	mg/L	0.10		70	130	1.2	20	A
Sodium	56.3	mg/L	1.0	104	70	130	0.4	20	

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18996		
Sample ID: MB-18996	Method Blank			Run: SUB-C103950			07/10/08 00:55		
Antimony	0.0002	mg/L	0.0002						
Arsenic	0.0008	mg/L	5E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Lead	0.0010	mg/L	5E-05						
Selenium	ND	mg/L	0.0002						
Silver	0.0002	mg/L	4E-05						
Thallium	ND	mg/L	3E-05						
Uranium	7E-05	mg/L	3E-05						
Sample ID: LCS3-18996	Laboratory Control Sample			Run: SUB-C103950			07/10/08 01:02		
Antimony	0.532	mg/L	0.050	106	85	115			
Arsenic	0.530	mg/L	0.0010	106	85	115			
Cadmium	0.264	mg/L	0.010	106	85	115			
Lead	0.522	mg/L	0.050	104	85	115			
Selenium	0.561	mg/L	0.0020	112	85	115			
Silver	0.0505	mg/L	0.010	101	85	115			
Thallium	0.508	mg/L	0.10	102	85	115			
Uranium	0.537	mg/L	0.00032	107	85	115			
Sample ID: R08060427-007D	Sample Matrix Spike			Run: SUB-C103950			07/10/08 01:50		
Antimony	0.521	mg/L	0.050	104	70	130			
Arsenic	0.517	mg/L	0.0010	103	70	130			
Beryllium	0.296	mg/L	0.010	118	70	130			
Cadmium	0.252	mg/L	0.010	101	70	130			
Lead	0.534	mg/L	0.050	107	70	130			
Selenium	0.520	mg/L	0.0010	104	70	130			
Silver	0.0534	mg/L	0.010	107	70	130			
Thallium	0.536	mg/L	0.10	107	70	130			
Uranium	0.569	mg/L	0.00030	114	70	130			
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate			Run: SUB-C103950			07/10/08 01:56		
Antimony	0.514	mg/L	0.050	103	70	130	1.3	20	
Arsenic	0.512	mg/L	0.0010	102	70	130	1.0	20	
Beryllium	0.287	mg/L	0.010	115	70	130	3.0	20	
Cadmium	0.253	mg/L	0.010	101	70	130	0.4	20	
Lead	0.524	mg/L	0.050	105	70	130	1.9	20	
Selenium	0.513	mg/L	0.0010	103	70	130	1.4	20	
Silver	0.0533	mg/L	0.010	107	70	130	0.1	20	
Thallium	0.529	mg/L	0.10	106	70	130	1.3	20	
Uranium	0.560	mg/L	0.00030	112	70	130	1.6	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: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18996		
Sample ID: MB-18996	Method Blank		Run: SUB-C104345			07/16/08 22:50			
Antimony	0.0008	mg/L	0.0002						
Arsenic	0.002	mg/L	5E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	4E-05						
Lead	ND	mg/L	5E-05						
Selenium	ND	mg/L	0.0002						
Silver	0.0001	mg/L	4E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18996	Laboratory Control Sample		Run: SUB-C104345			07/16/08 22:56			
Arsenic	0.574	mg/L	0.0010	114	85	115			
Cadmium	0.283	mg/L	0.010	113	85	115			
Lead	0.566	mg/L	0.050	113	85	115			
Selenium	0.560	mg/L	0.0020	112	85	115			
Silver	0.0526	mg/L	0.010	105	85	115			
Thallium	0.556	mg/L	0.10	111	85	115			
Sample ID: R08060427-007D	Sample Matrix Spike		Run: SUB-C104345			07/17/08 03:07			
Antimony	0.540	mg/L	0.050	108	70	130			
Arsenic	0.492	mg/L	0.0010	98	70	130			
Beryllium	0.269	mg/L	0.010	108	70	130			
Cadmium	0.246	mg/L	0.010	98	70	130			
Lead	0.490	mg/L	0.050	98	70	130			
Selenium	0.491	mg/L	0.0020	98	70	130			
Silver	0.0448	mg/L	0.010	90	70	130			
Thallium	0.482	mg/L	0.10	96	70	130			
Uranium	0.511	mg/L	0.00032	102	70	130			
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate		Run: SUB-C104345			07/17/08 03:14			
Antimony	0.503	mg/L	0.050	101	70	130	7.0	20	
Arsenic	0.465	mg/L	0.0010	92	70	130	5.7	20	
Beryllium	0.248	mg/L	0.010	99	70	130	8.0	20	
Cadmium	0.227	mg/L	0.010	91	70	130	7.6	20	
Lead	0.452	mg/L	0.050	90	70	130	8.0	20	
Selenium	0.456	mg/L	0.0020	91	70	130	7.4	20	
Silver	0.0429	mg/L	0.010	86	70	130	4.4	20	
Thallium	0.448	mg/L	0.10	90	70	130	7.4	20	
Uranium	0.472	mg/L	0.00032	94	70	130	8.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18996		
Sample ID: MB-18996	Method Blank		Run: SUB-C104438			07/17/08 13:21			
Antimony	0.0002	mg/L	0.0002						
Arsenic	0.0005	mg/L	5E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Lead	0.0002	mg/L	5E-05						
Selenium	0.0003	mg/L	0.0002						
Silver	0.0007	mg/L	4E-05						
Thallium	4E-05	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18996	Laboratory Control Sample		Run: SUB-C104438			07/17/08 13:28			
Antimony	0.550	mg/L	0.050	110	85	115			
Arsenic	0.514	mg/L	0.0010	103	85	115			
Beryllium	0.248	mg/L	0.010	99	85	115			
Cadmium	0.259	mg/L	0.010	104	85	115			
Lead	0.510	mg/L	0.050	102	85	115			
Selenium	0.507	mg/L	0.0020	101	85	115			
Silver	0.0439	mg/L	0.010	86	85	115			
Thallium	0.500	mg/L	0.10	100	85	115			
Uranium	0.520	mg/L	0.00032	104	85	115			
Sample ID: R08060427-007D	Sample Matrix Spike		Run: SUB-C104438			07/17/08 14:49			
Antimony	0.0550	mg/L	0.050	110	70	130			
Arsenic	0.0525	mg/L	0.0010	105	70	130			
Beryllium	0.0261	mg/L	0.010	131	70	130			S
Cadmium	0.0255	mg/L	0.010	128	70	130			
Lead	0.0516	mg/L	0.050	103	70	130			
Selenium	0.0520	mg/L	0.0010	104	70	130			
Silver	0.00437	mg/L	0.010	109	70	130			
Thallium	0.0506	mg/L	0.10	101	70	130			
Uranium	0.0531	mg/L	0.00030	106	70	130			
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate		Run: SUB-C104438			07/17/08 14:56			
Antimony	0.0545	mg/L	0.050	109	70	130	0.9	20	
Arsenic	0.0508	mg/L	0.0010	101	70	130	3.3	20	
Beryllium	0.0252	mg/L	0.010	126	70	130	3.7	20	
Cadmium	0.0256	mg/L	0.010	128	70	130	0.1	20	
Lead	0.0500	mg/L	0.050	100	70	130	3.1	20	
Selenium	0.0504	mg/L	0.0010	101	70	130	3.1	20	
Silver	0.00451	mg/L	0.010	113	70	130	0.0	20	
Thallium	0.0495	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: 08/21/08
Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18996		
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate			Run: SUB-C104438			07/17/08 14:56		
Uranium	0.0510	mg/L	0.00030	102	70	130	3.9	20	
Sample ID: R08060427-007D	Sample Matrix Spike			Run: SUB-C104503			07/18/08 17:58		
Antimony	0.571	mg/L	0.050	114	70	130			
Arsenic	0.515	mg/L	0.0010	103	70	130			
Cadmium	0.254	mg/L	0.010	101	70	130			
Lead	0.539	mg/L	0.050	108	70	130			
Selenium	0.506	mg/L	0.0010	101	70	130			
Silver	0.0499	mg/L	0.010	100	70	130			
Thallium	0.546	mg/L	0.10	109	70	130			
Uranium	0.587	mg/L	0.00030	117	70	130			
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate			Run: SUB-C104503			07/18/08 18:04		
Antimony	0.564	mg/L	0.050	113	70	130	1.2	20	
Arsenic	0.507	mg/L	0.0010	101	70	130	1.5	20	
Cadmium	0.253	mg/L	0.010	101	70	130	0.2	20	
Lead	0.526	mg/L	0.050	105	70	130	2.5	20	
Selenium	0.496	mg/L	0.0010	99	70	130	1.8	20	
Silver	0.0496	mg/L	0.010	99	70	130	0.6	20	
Thallium	0.536	mg/L	0.10	107	70	130	1.7	20	
Uranium	0.581	mg/L	0.00030	116	70	130	1.0	20	
Sample ID: R08060427-007D	Sample Matrix Spike			Run: SUB-C104617			07/21/08 16:58		
Antimony	0.595	mg/L	0.050	119	70	130			
Arsenic	0.509	mg/L	0.0010	101	70	130			
Beryllium	0.269	mg/L	0.010	108	70	130			
Cadmium	0.264	mg/L	0.010	106	70	130			
Lead	0.519	mg/L	0.050	104	70	130			
Selenium	0.503	mg/L	0.0010	100	70	130			
Silver	0.0497	mg/L	0.010	99	70	130			
Thallium	0.518	mg/L	0.10	104	70	130			
Uranium	0.584	mg/L	0.00030	117	70	130			
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate			Run: SUB-C104617			07/21/08 17:05		
Antimony	0.579	mg/L	0.050	116	70	130	2.7	20	
Arsenic	0.508	mg/L	0.0010	101	70	130	0.2	20	
Beryllium	0.267	mg/L	0.010	107	70	130	0.8	20	
Cadmium	0.256	mg/L	0.010	102	70	130	3.1	20	
Lead	0.522	mg/L	0.050	104	70	130	0.7	20	
Selenium	0.503	mg/L	0.0010	101	70	130	0.1	20	
Silver	0.0485	mg/L	0.010	97	70	130	2.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18996		
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate			Run: SUB-C104617			07/21/08 17:05		
Thallium	0.523	mg/L	0.10	105	70	130	1.0	20	
Uranium	0.586	mg/L	0.00030	117	70	130	0.3	20	
Method: E200.8							Batch: C_19014		
Sample ID: MB-19014	Method Blank			Run: SUB-C104018			07/10/08 11:31		
Uranium	2E-05	mg/L	2E-05						
Sample ID: LCS1-19014	Laboratory Control Sample			Run: SUB-C104018			07/10/08 11:36		
Uranium	0.0504	mg/L	0.00030	96	80	120			
Sample ID: R08060427-007I	Post Digestion Spike			Run: SUB-C104018			07/10/08 12:51		
Uranium	0.0119	mg/L	0.00030	95	70	130			
Sample ID: R08060427-007I	Post Digestion Spike Duplicate			Run: SUB-C104018			07/10/08 12:56		
Uranium	0.0120	mg/L	0.00030	95	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: 08/21/08
 Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104306		
Sample ID: LRB	Method Blank		Run: SUB-C104306			07/15/08 12:08			
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	7E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C104306			07/15/08 12:15			
Arsenic	0.0503	mg/L	0.0010	101	85	115			
Cadmium	0.0500	mg/L	0.0010	100	85	115			
Copper	0.0505	mg/L	0.0010	101	85	115			
Lead	0.0512	mg/L	0.0010	102	85	115			
Mercury	0.00506	mg/L	0.0010	101	85	115			
Silver	0.0194	mg/L	0.0010	97	85	115			
Thorium 232	0.0507	mg/L	0.0010	101	85	115			
Uranium	0.0509	mg/L	0.00030	102	85	115			
Sample ID: C08061021-002CMS4	Post Digestion Spike		Run: SUB-C104306			07/15/08 19:27			
Arsenic	0.459	mg/L	0.0010	90	70	130			
Cadmium	0.433	mg/L	0.010	86	70	130			
Copper	0.464	mg/L	0.010	89	70	130			
Lead	0.456	mg/L	0.050	87	70	130			
Mercury	0.0437	mg/L	0.0010	87	70	130			
Silver	0.172	mg/L	0.010	86	70	130			
Thorium 232	0.436	mg/L	0.0010	86	70	130			
Uranium	0.439	mg/L	0.00030	87	70	130			
Sample ID: C08061021-002CMSD4	Post Digestion Spike Duplicate		Run: SUB-C104306			07/15/08 19:34			
Arsenic	0.541	mg/L	0.0010	107	70	130	16	20	
Cadmium	0.530	mg/L	0.010	106	70	130	20	20	R
Copper	0.541	mg/L	0.010	104	70	130	15	20	
Lead	0.546	mg/L	0.050	105	70	130	18	20	
Mercury	0.0529	mg/L	0.0010	106	70	130	19	20	
Silver	0.177	mg/L	0.010	89	70	130	3.2	20	
Thorium 232	0.528	mg/L	0.0010	105	70	130	19	20	
Uranium	0.528	mg/L	0.00030	105	70	130	18	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: 08/21/08
 Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: B_33309		
Sample ID: MB-33309	Method Blank				Run: SUB-B113606		07/07/08 19:32		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33309	Laboratory Fortified Blank				Run: SUB-B113606		07/07/08 19:39		
Mercury	0.0020	mg/L	0.0010	100	85	115			
Sample ID: B08062869-005AMS	Sample Matrix Spike				Run: SUB-B113606		07/07/08 20:21		
Mercury	0.0022	mg/L	0.0010	105	70	130			
Sample ID: B08062869-005AMSD	Sample Matrix Spike Duplicate				Run: SUB-B113606		07/07/08 20:24		
Mercury	0.0022	mg/L	0.0010	106	70	130	0.5	30	
Method: E245.1							Batch: B_33393		
Sample ID: MB-33393	Method Blank				Run: SUB-B113690		07/09/08 11:37		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33393	Laboratory Fortified Blank				Run: SUB-B113690		07/09/08 11:39		
Mercury	0.0020	mg/L	0.0010	101	85	115			
Sample ID: R08060427-002D	Sample Matrix Spike				Run: SUB-B113690		07/09/08 11:44		
Mercury	0.0021	mg/L	0.0010	102	70	130			
Sample ID: R08060427-002D	Sample Matrix Spike Duplicate				Run: SUB-B113690		07/09/08 11:46		
Mercury	0.0022	mg/L	0.0010	108	70	130	5.5	30	
Sample ID: B08070638-001BMS	Sample Matrix Spike				Run: SUB-B113690		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-B113690		07/09/08 12:10		
Mercury	0.0021	mg/L	0.0010	103	70	130	4.2	30	
Method: E245.1							Analytical Run: SUB-B113606		
Sample ID: QCS	Initial Calibration Verification Standard						07/07/08 19:22		
Mercury	0.0020	mg/L	0.0010	99	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: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35707		
Sample ID: LFB0806260829-3	Laboratory Fortified Blank					Run: DIONEX_080627A	06/26/08 19:18		
Chloride	4.77	mg/L	0.50	95	90	110			
Fluoride	1.82	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.46	mg/L	0.10	98	90	110			
Sulfate	13.9	mg/L	1.0	92	90	110			
Sample ID: LFB0806260829-4	Laboratory Fortified Blank					Run: DIONEX_080627A	06/26/08 19:34		
Chloride	4.71	mg/L	0.50	94	90	110			
Fluoride	1.84	mg/L	0.10	92	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.48	mg/L	0.10	99	90	110			
Sulfate	14.0	mg/L	1.0	93	90	110			
Sample ID: R08060426-001AMS	Sample Matrix Spike					Run: DIONEX_080627A	06/26/08 20:07		
Chloride	6.85	mg/L	0.50	86	80	120			
Fluoride	2.13	mg/L	0.10	92	80	120			
Nitrogen, Nitrate as N	2.28	mg/L	0.10	87	80	120			
Nitrogen, Nitrite as N	2.41	mg/L	0.10	96	80	120			
Sulfate	66.3	mg/L	1.0	65	80	120			S
Sample ID: R08060426-001AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_080627A	06/26/08 20:23		
Chloride	6.96	mg/L	0.50	88	80	120	1.6	10	
Fluoride	2.18	mg/L	0.10	95	80	120	2.3	10	
Nitrogen, Nitrate as N	2.35	mg/L	0.10	90	80	120	3.0	10	
Nitrogen, Nitrite as N	2.47	mg/L	0.10	99	80	120	2.5	10	
Sulfate	66.6	mg/L	1.0	68	80	120	0.5	10	S
Sample ID: R08060427-004AMS	Sample Matrix Spike					Run: DIONEX_080627A	06/26/08 23:24		
Chloride	105	mg/L	2.2	89	80	120			
Fluoride	37.6	mg/L	0.22	87	80	120			
Nitrogen, Nitrate as N	47.1	mg/L	0.50	94	80	120			
Nitrogen, Nitrite as N	50.0	mg/L	1.2	100	80	120			
Sulfate	699	mg/L	1.3	86	80	120			
Sample ID: R08060427-004AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_080627A	06/26/08 23:40		
Chloride	102	mg/L	2.2	87	80	120	2.7	10	
Fluoride	36.3	mg/L	0.22	84	80	120	3.6	10	
Nitrogen, Nitrate as N	45.5	mg/L	0.50	91	80	120	3.5	10	
Nitrogen, Nitrite as N	48.3	mg/L	1.2	97	80	120	3.5	10	
Sulfate	709	mg/L	1.3	89	80	120	1.4	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: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35707		
Sample ID: R08060430-001BMS	Sample Matrix Spike			Run: DIONEX_080627A			06/27/08 02:41		
Chloride	10.6	mg/L	0.50	91	80	120			
Fluoride	2.42	mg/L	0.10	94	80	120			
Nitrogen, Nitrate as N	2.88	mg/L	0.10	93	80	120			
Nitrogen, Nitrite as N	2.54	mg/L	0.10	102	80	120			
Sulfate	42.6	mg/L	1.0	81	80	120			
Sample ID: R08060430-001BMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080627A			06/27/08 02:57		
Chloride	10.3	mg/L	0.50	85	80	120	2.9	10	
Fluoride	2.30	mg/L	0.10	88	80	120	5.1	10	
Nitrogen, Nitrate as N	2.73	mg/L	0.10	87	80	120	5.3	10	
Nitrogen, Nitrite as N	2.39	mg/L	0.10	96	80	120	6.1	10	
Sulfate	41.8	mg/L	1.0	76	80	120	1.8	10	S
Method: E300.0							Batch: R35734		
Sample ID: LFB0806275602-3	Laboratory Fortified Blank			Run: DIONEX_080625B			06/27/08 17:26		
Chloride	4.75	mg/L	0.50	95	90	110			
Fluoride	1.87	mg/L	0.10	94	90	110			
Sulfate	14.2	mg/L	1.0	95	90	110			
Sample ID: LFB0806275602-4	Laboratory Fortified Blank			Run: DIONEX_080625B			06/27/08 17:43		
Chloride	4.72	mg/L	0.50	94	90	110			
Fluoride	1.86	mg/L	0.10	93	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: R08060307-006BMS	Sample Matrix Spike			Run: DIONEX_080625B			06/28/08 04:07		
Chloride	154	mg/L	2.2	86	80	120			
Fluoride	36.4	mg/L	0.22	84	80	120			
Sulfate	730	mg/L	1.3	83	80	120			
Sample ID: R08060307-006BMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080625B			06/28/08 04:23		
Chloride	154	mg/L	2.2	86	80	120	0.1	10	
Fluoride	36.5	mg/L	0.22	84	80	120	0.4	10	
Sulfate	728	mg/L	1.3	82	80	120	0.3	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: 08/21/08
 Work Order: R08060427

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: R08060427-007H	Sample Matrix Spike				Run: SUB-C104549			07/19/08 22:57	
Gross Alpha	160	pCi/L	115	70	130				
Sample ID: R08060427-007H	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: R08060427-007H	Sample Matrix Spike				Run: SUB-C104549			07/19/08 22:57	
Gross Beta	93	pCi/L	97	70	130				
Sample ID: R08060427-007H	Sample Matrix Spike Duplicate				Run: SUB-C104549			07/19/08 22:57	
Gross Beta	89	pCi/L	93	70	130	4.2	16		

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: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R104840		
Sample ID: LCS-R104840	Laboratory Control Sample			Run: SUB-C104840			07/17/08 13:12		
Americium 241	230000	pCi/L	20	75	70	130			
Cesium 137	460000	pCi/L	20	106	70	130			
Cobalt 60	320000	pCi/L	20	101	70	130			
Sample ID: MB-R104840	Method Blank			Run: SUB-C104840			07/17/08 13:12		
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
Sample ID: R08060427-007H	Sample Duplicate			Run: SUB-C104840			07/17/08 13:12		
Americium 241	ND	pCi/L	20				0.0		30
Barium 133	ND	pCi/L	20				0.0		30
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

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: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R104840		
Sample ID: R08060427-007H	Sample Duplicate					Run: SUB-C104840			07/17/08 13:12
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	
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_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_RA226-2936		
Sample ID: MB-RA226-2936	Method Blank					Run: SUB-C104623			07/21/08 18:07
Radium 226	-0.1	pCi/L							U
Sample ID: LCS-RA226-2936	Laboratory Control Sample					Run: SUB-C104623			07/22/08 00:40
Radium 226	7.6	pCi/L	98		70	130			
Sample ID: C08061394-007HMS	Sample Matrix Spike					Run: SUB-C104623			07/22/08 00:40
Radium 226	17	pCi/L	107		70	130			
Sample ID: C08061394-007HMSD	Sample Matrix Spike Duplicate					Run: SUB-C104623			07/22/08 00:40
Radium 226	16	pCi/L	103		70	130	3.9	23.9	

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: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_19014		
Sample ID: R08060427-007I	Sample Matrix Spike				Run: SUB-C104248			07/11/08 17:06	
Thorium 230	21.4	pCi/L	0.20	92	70	130			
Sample ID: R08060427-007I	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
Method: E907.0							Batch: C_RA-TH-ISO-0578		
Sample ID: LCS-RA-TH-ISO-0578	Laboratory Control Sample				Run: SUB-C105021			07/28/08 15:48	
Thorium 230	6.00	pCi/L	0.20	98	70	130			
Sample ID: R08060427-001H	Sample Matrix Spike				Run: SUB-C105021			07/28/08 15:49	
Thorium 230	14.9	pCi/L	0.20	91	70	130			
Sample ID: R08060427-001H	Sample Matrix Spike Duplicate				Run: SUB-C105021			07/28/08 20:05	
Thorium 230	16.8	pCi/L	0.20	104	70	130	12	30	
Sample ID: MB-RA-TH-ISO-0578	Method Blank				Run: SUB-C105021			07/28/08 20:06	
Thorium 230	-0.008	pCi/L							U
Method: E909.0M							Batch: C_19014		
Sample ID: R08060427-001I	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: R08060427-001I	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			

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: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R105208		
Sample ID: R08060427-002H	Sample Matrix Spike			Run: SUB-C105208			07/11/08 07:20		
Lead 210	310	pCi/L		53	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: R08060427-002H	Sample Matrix Spike Duplicate			Run: SUB-C105208			07/11/08 07:20		
Lead 210	360	pCi/L		61	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: C08061333-001HDUP	Sample Duplicate			Run: SUB-C105208			07/11/08 07:20		
Lead 210	-5.5	pCi/L	1.0				0.0	30	U
Sample ID: MB-R105208	Method Blank			Run: SUB-C105208			07/11/08 07:20		
Lead 210	-5	pCi/L							U
Sample ID: LCS-R105208	Laboratory Control Sample			Run: SUB-C105208			07/11/08 07:20		
Lead 210	110	pCi/L		96	70	130			
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_R104456		
Sample ID: R08060427-001H	Sample Matrix Spike			Run: SUB-C104456			07/14/08 17:45		
Polonium 210	66	pCi/L	1.0	75	70	130			
Sample ID: R08060427-001H	Sample Matrix Spike Duplicate			Run: SUB-C104456			07/14/08 17:45		
Polonium 210	59	pCi/L	1.0	67	70	130	11	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-R104456	Laboratory Control Sample			Run: SUB-C104456			07/14/08 17:45		
Polonium 210	35	pCi/L	1.0	81	70	130			
Sample ID: MB-R104456	Method Blank			Run: SUB-C104456			07/14/08 17:45		
Polonium 210	-0.2	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



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW7470A									Analytical Run: SUB-B113690
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.

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



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: **RESPEC**
 Report Mail Address: **RESPEC**
 Invoice Address:
 Project Name, PWS, Permit, Etc.:
 Contact Name: **Powerful Dewey Burdock**
 Contact Name: **Cory Foreman**
 Phone/Fax: _____
 Email: _____
 State: **SD**
 Purchase Order: **294-6400**
 Quote/Bottle Order: **Eric Keane**
 EPA/State Compliance: Yes No
 Sampler: (Please Print)

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

DW A2LA
 GSA EDD/EDT (Electronic Data)
 POTWW/WTP Format: _____
 State: _____ LEVEL IV
 Other: _____ NEIAC

Number of Containers
 Sample Type: A W S V B O
 Air Water Soils/Solids
 Vegetation Bioassay Other

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED				SEE ATTACHED Normal Turnaround (TAT)	RUSH Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: All GW	Shipped by: Cooler Dtg: Receptor Temp 3.2 °C On Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
				Requested by (print):	Date/Time:	Received by Laboratory:	Date/Time:			
1 Dew Burd GW 698	6/24/08	11:55	W							
2 Dew Burd GW 696	6/24/08	15:08	W							
3 Dew Burd GW 694	6/24/08	15:16	W							
4 Dew Burd GW 695	6/24/08	17:30	W							
5 Dew Burd GW 697	6/24/08	18:30	W							
6 Dew Burd GW 3026	6/24/08	20:05	W							
7 Dew Burd GW										
8 Dew Burd ELK01	6/24/08	20:10	W							
9										
10										

Custody Record **MUST be Signed**
 Requested by (print): **Eric Keane** Date/Time: **6/25/08 01:10** Signature: **[Signature]**
 Requested by (print): _____ Date/Time: _____ Signature: _____
 Received by Laboratory: _____ Date/Time: _____ Signature: _____

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



ANALYTICAL SUMMARY REPORT

August 20, 2008

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

Workorder No.: R08060452 Quote ID: R286

Project Name: Edgemont

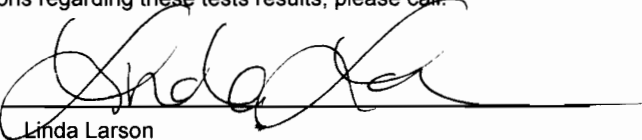
Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 6/26/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08060452-001	DewBurd GW622	06/25/08 12:05	06/26/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08060452-002	DewBurd GW615	06/25/08 13:55	06/26/08	Aqueous	Same As Above
R08060452-003	DewBurd GW681	06/25/08 17:30	06/26/08	Aqueous	Same As Above
R08060452-004	DewBurd GW689	06/25/08 18:18	06/26/08	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



Date: 20-Aug-08

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08060452

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 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.
- 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: C08061333

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: C08061333



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060452-001
 Client Sample ID: DewBurd GW622

Report Date: 08/20/08
 Collection Date: 06/25/08 12:05
 Date Received: 06/26/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	178	mg/L		5			1	A2320 B	07/03/08 11:52/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	07/03/08 11:52/mb
Bicarbonate as HCO3	217	mg/L		5			1	A2320 B	07/03/08 11:52/mb
Calcium	89.6	mg/L		0.5			2	E200.7	07/09/08 16:00/eli-c
Chloride	10	mg/L		1			1	E300.0	06/27/08 06:47/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	06/27/08 06:47/jmh
Magnesium	31.2	mg/L		0.5			2	E200.7	07/09/08 16:00/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	06/30/08 13:44/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/27/08 06:47/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/27/08 06:47/jmh
Potassium	10.2	mg/L		0.5			2	E200.7	07/09/08 16:00/eli-c
Silica	3.9	mg/L		0.5			2	E200.7	07/09/08 16:00/eli-c
Sodium	174	mg/L	D	2			2	E200.7	07/09/08 16:00/eli-c
Sulfate	481	mg/L		1			20	E300.0	06/27/08 06:31/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1410	umhos/cm		5.0			1	A2510 B	07/01/08 11:18/tb
Oxidation-Reduction Potential	240	mV					1	A2580 B	06/27/08 00:00/jmh
pH	7.95	s.u.		0.01			1	A4500-H B	07/01/08 10:11/tb
Sodium Adsorption Ratio (SAR)	4.0	unitless		0.10			1	Calculation	08/20/08 17:12/ADM
Solids, Total Dissolved TDS @ 180 C	900	mg/L		5			1	A2540 C	06/27/08 12:01/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/09/08 16:00/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	07/17/08 20:10/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/09/08 16:00/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/09/08 16:00/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/17/08 20:10/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/09/08 16:00/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/17/08 20:10/eli-c
Iron	ND	mg/L		0.03			2	E200.7	07/09/08 16:00/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/17/08 20:10/eli-c
Manganese	0.19	mg/L		0.01			2	E200.7	07/09/08 16:00/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/17/08 20:10/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/09/08 16:00/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/09/08 16:00/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/19/08 14:52/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/17/08 20:10/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060452-001
 Client Sample ID: DewBurd GW622

Report Date: 08/20/08
 Collection Date: 06/25/08 12:05
 Date Received: 06/26/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/17/08 20:10/eli-c
Uranium	0.0051	mg/L		0.0003		1	E200.8 07/17/08 20:10/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/09/08 16:00/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7 07/09/08 16:00/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 07/10/08 11:42/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/19/08 11:52/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/19/08 14:37/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	36.4	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Alpha precision (±)	4.3	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Alpha MDC	3.6	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Beta	22.5	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Beta precision (±)	2.7	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Beta MDC	3.9	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Lead 210	-2.0	pCi/L	U			1	E909.0M 07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Lead 210 precision (±)	6.7	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008 07/10/08 21:30/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1	RMO-3008 07/10/08 21:30/eli-c
Radium 226	4.1	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 07/21/08 21:24/eli-c
Thorium 230 precision (±)	0.03	pCi/L				1	E907.0 07/21/08 21:24/eli-c
Gross Gamma	0.0	pCi/L	U	20		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 - SUSPENDED							
Lead 210	3.5	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	1.0	pCi/L		1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.74	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 21:56/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060452-001
 Client Sample ID: DewBurd GW622

Report Date: 08/20/08
 Collection Date: 06/25/08 12:05
 Date Received: 06/26/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/15/08 21:56/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	07/15/08 21:56/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									
Radon 222	1950	pCi/L		100			1	D5072-92	06/30/08 17:19/eli-c
Radon 222 precision (±)	107	pCi/L					1	D5072-92	06/30/08 17:19/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/07/08 17:05/eli-c
Arsenic	0.004	mg/L		0.001			10	E200.8	07/07/08 17:05/eli-c
Barium	0.1	mg/L		0.1			2	E200.7	07/07/08 23:47/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/07/08 17:05/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/07/08 23:47/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/07/08 17:05/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/07/08 23:47/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/07/08 23:47/eli-c
Iron	5.17	mg/L		0.03			2	E200.7	07/07/08 23:47/eli-c
Lead	0.030	mg/L	D	0.007			10	E200.8	07/07/08 17:05/eli-c
Manganese	0.22	mg/L		0.01			2	E200.7	07/07/08 23:47/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/10/08 16:04/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/07/08 23:47/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/07/08 23:47/eli-c
Selenium	0.002	mg/L	D	0.002			10	E200.8	07/07/08 17:05/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/07/08 17:05/eli-c
Strontium	1.6	mg/L		0.1			2	E200.7	07/07/08 23:47/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/07/08 17:05/eli-c
Uranium	0.0059	mg/L		0.0003			10	E200.8	07/07/08 17:05/eli-c
Zinc	0.13	mg/L		0.01			2	E200.7	07/07/08 23:47/eli-c
DATA QUALITY									
A/C Balance (± 5)	3.53	%					1	A1030 E	08/20/08 00:00/kl
Anions	13.9	meq/L					1	A1030 E	08/20/08 00:00/kl
Cations	14.9	meq/L					1	A1030 E	08/20/08 00:00/kl
Solids, Total Dissolved Calculated	914	mg/L					1	A1030 E	08/20/08 00:00/kl
TDS Balance (0.80 - 1.20)	0.990						1	A1030 E	08/20/08 00:00/kl

Report: RL - Analyte reporting limit.
 Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060452-002
 Client Sample ID: DewBurd GW615

Report Date: 08/20/08
 Collection Date: 06/25/08 13:55
 Date Received: 06/26/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	138	mg/L		5			1	A2320 B	07/03/08 11:56/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	07/03/08 11:56/mb
Bicarbonate as HCO3	168	mg/L		5			1	A2320 B	07/03/08 11:56/mb
Calcium	71.8	mg/L		0.5			2	E200.7	07/09/08 16:04/eli-c
Chloride	5	mg/L		1			1	E300.0	06/27/08 07:20/jmh
Fluoride	0.5	mg/L		0.1			1	E300.0	06/27/08 07:20/jmh
Magnesium	21.6	mg/L		0.5			2	E200.7	07/09/08 16:04/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	06/30/08 13:45/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/27/08 07:20/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/27/08 07:20/jmh
Potassium	8.7	mg/L		0.5			2	E200.7	07/09/08 16:04/eli-c
Silica	4.0	mg/L		0.5			2	E200.7	07/09/08 16:04/eli-c
Sodium	127	mg/L	D	2			2	E200.7	07/09/08 16:04/eli-c
Sulfate	369	mg/L		1			20	E300.0	06/27/08 07:03/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1110	umhos/cm		5.0			1	A2510 B	07/01/08 11:20/tb
Oxidation-Reduction Potential	140	mV					1	A2580 B	06/27/08 00:00/jmh
pH	7.48	s.u.		0.01			1	A4500-H B	07/01/08 10:12/tb
Sodium Adsorption Ratio (SAR)	3.4	unitless		0.10			1	Calculation	08/20/08 17:12/ADM
Solids, Total Dissolved TDS @ 180 C	680	mg/L		5			1	A2540 C	06/27/08 12:01/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/09/08 16:04/eli-c
Arsenic	0.016	mg/L		0.001			1	E200.8	07/15/08 19:13/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/09/08 16:04/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/09/08 16:04/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/15/08 19:13/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/09/08 16:04/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/15/08 19:13/eli-c
Iron	0.42	mg/L		0.03			2	E200.7	07/09/08 16:04/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/15/08 19:13/eli-c
Manganese	0.07	mg/L		0.01			2	E200.7	07/09/08 16:04/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/15/08 19:13/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/09/08 16:04/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/09/08 16:04/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/19/08 14:58/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/15/08 19:13/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060452-002
Client Sample ID: DewBurd GW615

Report Date: 08/20/08
Collection Date: 06/25/08 13:55
Date Received: 06/26/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	07/15/08 19:13/eli-c
Uranium	0.0024	mg/L		0.0003		1	E200.8	07/15/08 19:13/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/09/08 16:04/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/09/08 16:04/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/10/08 11:47/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 11:59/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:37/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	38.3	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Alpha precision (±)	3.8	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Alpha MDC	2.8	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Beta	12.6	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Beta precision (±)	2.0	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
Lead 210	1.1	pCi/L	U			1	E909.0M	07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L				1	E909.0M	07/11/08 07:20/eli-c
Lead 210 precision (±)	6.8	pCi/L				1	E909.0M	07/11/08 07:20/eli-c
Polonium 210	0.5	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	7.2	pCi/L				1	E903.0	07/21/08 22:27/eli-c
Radium 226 precision (±)	0.7	pCi/L				1	E903.0	07/21/08 22:27/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/21/08 21:24/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	07/21/08 21:24/eli-c
Gross Gamma	0.0	pCi/L	U	20		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 - SUSPENDED								
Lead 210	3.5	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	0.0	pCi/L	U	1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.21	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 21:56/eli-c

Report RL - Analyte reporting limit.
Definitions: 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: R08060452-002
 Client Sample ID: DewBurd GW615

Report Date: 08/20/08
 Collection Date: 06/25/08 13:55
 Date Received: 06/26/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/15/08 21:56/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	07/15/08 21:56/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									
Radon 222	1830	pCi/L		100			1	D5072-92	06/30/08 17:19/eli-c
Radon 222 precision (±)	105	pCi/L					1	D5072-92	06/30/08 17:19/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/07/08 17:12/eli-c
Arsenic	0.024	mg/L		0.001			10	E200.8	07/07/08 17:12/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/07/08 23:55/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/07/08 17:12/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/07/08 23:55/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/07/08 17:12/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/07/08 23:55/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/07/08 23:55/eli-c
Iron	1.50	mg/L		0.03			2	E200.7	07/07/08 23:55/eli-c
Lead	0.013	mg/L	D	0.007			10	E200.8	07/07/08 17:12/eli-c
Manganese	0.07	mg/L		0.01			2	E200.7	07/07/08 23:55/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/10/08 16:06/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/07/08 23:55/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/07/08 23:55/eli-c
Selenium	ND	mg/L	D	0.002			10	E200.8	07/07/08 17:12/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/07/08 17:12/eli-c
Strontium	1.4	mg/L		0.1			2	E200.7	07/07/08 23:55/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/07/08 17:12/eli-c
Uranium	0.0023	mg/L		0.0003			10	E200.8	07/07/08 17:12/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/07/08 23:55/eli-c
DATA QUALITY									
A/C Balance (± 5)	2.39	%					1	A1030 E	08/20/08 00:00/kl
Anions	10.6	meq/L					1	A1030 E	08/20/08 00:00/kl
Cations	11.1	meq/L					1	A1030 E	08/20/08 00:00/kl
Solids, Total Dissolved Calculated	696	mg/L					1	A1030 E	08/20/08 00:00/kl
TDS Balance (0.80 - 1.20)	0.970						1	A1030 E	08/20/08 00:00/kl

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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060452-003
 Client Sample ID: DewBurd GW681

Report Date: 08/20/08
 Collection Date: 06/25/08 17:30
 Date Received: 06/26/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	170	mg/L		5			1	A2320 B	07/03/08 12:03/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	07/03/08 12:03/mb
Bicarbonate as HCO3	207	mg/L		5			1	A2320 B	07/03/08 12:03/mb
Calcium	62.3	mg/L		0.5			2	E200.7	07/09/08 16:08/eli-c
Chloride	15	mg/L		1			1	E300.0	06/27/08 07:53/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	06/27/08 07:53/jmh
Magnesium	24.0	mg/L		0.5			2	E200.7	07/09/08 16:08/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	06/30/08 13:46/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/27/08 07:53/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/27/08 07:53/jmh
Potassium	9.7	mg/L		0.5			2	E200.7	07/09/08 16:08/eli-c
Silica	3.9	mg/L		0.5			2	E200.7	07/09/08 16:08/eli-c
Sodium	210	mg/L	D	2			2	E200.7	07/09/08 16:08/eli-c
Sulfate	449	mg/L		1			20	E300.0	06/27/08 07:36/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1390	umhos/cm		5.0			1	A2510 B	07/01/08 11:21/tb
Oxidation-Reduction Potential	140	mV					1	A2580 B	06/27/08 00:00/jmh
pH	7.99	s.u.		0.01			1	A4500-H B	07/01/08 10:14/tb
Sodium Adsorption Ratio (SAR)	5.7	unitless		0.10			1	Calculation	08/20/08 17:12/ADM
Solids, Total Dissolved TDS @ 180 C	880	mg/L		5			1	A2540 C	06/27/08 12:04/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/09/08 16:08/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	07/15/08 19:40/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/09/08 16:08/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/09/08 16:08/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/15/08 19:40/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/09/08 16:08/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/15/08 19:40/eli-c
Iron	ND	mg/L		0.03			2	E200.7	07/09/08 16:08/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/15/08 19:40/eli-c
Manganese	0.08	mg/L		0.01			2	E200.7	07/09/08 16:08/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/15/08 19:40/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/09/08 16:08/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/09/08 16:08/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/19/08 15:00/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/15/08 19:40/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060452-003
 Client Sample ID: DewBurd GW681

Report Date: 08/20/08
 Collection Date: 06/25/08 17:30
 Date Received: 06/26/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/15/08 19:40/eli-c
Uranium	0.0097	mg/L		0.0003		1	E200.8 07/15/08 19:40/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/09/08 16:08/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 07/09/08 16:08/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 07/10/08 11:51/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/19/08 12:01/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/19/08 14:37/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1390	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Alpha precision (±)	23.2	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Alpha MDC	3.5	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Beta	364	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Beta precision (±)	6.2	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Beta MDC	3.9	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Lead 210	42.2	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Lead 210 precision (±)	7.4	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Polonium 210	0.7	pCi/L	U	1.0		1	RMO-3008 07/10/08 21:30/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1	RMO-3008 07/10/08 21:30/eli-c
Radium 226	434	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Radium 226 precision (±)	5.5	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 07/21/08 21:24/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0 07/21/08 21:24/eli-c
Gross Gamma	210	pCi/L		20		1	E901.1 07/14/08 11:00/eli-c
Gross Gamma precision (±)	45	pCi/L				1	E901.1 07/14/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	6.2	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	1.4	pCi/L		1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.81	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	0.7	pCi/L				1	E903.0 07/15/08 21:56/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.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060452-003
 Client Sample ID: DewBurd GW681

Report Date: 08/20/08
 Collection Date: 06/25/08 17:30
 Date Received: 06/26/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	07/15/08 21:56/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	07/15/08 21:56/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									
Radon 222	389000	pCi/L		100			1	D5072-92	06/30/08 17:19/eli-c
Radon 222 precision (±)	953	pCi/L					1	D5072-92	06/30/08 17:19/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/07/08 17:18/eli-c
Arsenic	0.001	mg/L		0.001			10	E200.8	07/07/08 17:18/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/07/08 23:59/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/07/08 17:18/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/07/08 23:59/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/07/08 17:18/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/07/08 23:59/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/07/08 23:59/eli-c
Iron	0.04	mg/L		0.03			2	E200.7	07/07/08 23:59/eli-c
Lead	0.013	mg/L	D	0.007			10	E200.8	07/07/08 17:18/eli-c
Manganese	0.08	mg/L		0.01			2	E200.7	07/07/08 23:59/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/10/08 16:08/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/07/08 23:59/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/07/08 23:59/eli-c
Selenium	0.002	mg/L	D	0.002			10	E200.8	07/07/08 17:18/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/07/08 17:18/eli-c
Strontium	1.1	mg/L		0.1			2	E200.7	07/07/08 23:59/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/07/08 17:18/eli-c
Uranium	0.0102	mg/L		0.0003			10	E200.8	07/07/08 17:18/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/07/08 23:59/eli-c
DATA QUALITY									
A/C Balance (± 5)	4.51	%					1	A1030 E	08/20/08 00:00/kl
Anions	13.2	meq/L					1	A1030 E	08/20/08 00:00/kl
Cations	14.5	meq/L					1	A1030 E	08/20/08 00:00/kl
Solids, Total Dissolved Calculated	883	mg/L					1	A1030 E	08/20/08 00:00/kl
TDS Balance (0.80 - 1.20)	0.990						1	A1030 E	08/20/08 00:00/kl

Report RL - Analyte reporting limit.
 Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060452-004
 Client Sample ID: DewBurd GW689

Report Date: 08/20/08
 Collection Date: 06/25/08 18:18
 Date Received: 06/26/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	150	mg/L		5		1	A2320 B 07/03/08 12:07/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/03/08 12:07/mb
Bicarbonate as HCO3	183	mg/L		5		1	A2320 B 07/03/08 12:07/mb
Calcium	46.7	mg/L		0.5		2	E200.7 07/09/08 16:12/eli-c
Chloride	5	mg/L		1		1	E300.0 06/27/08 09:31/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0 06/27/08 09:31/jmh
Magnesium	16.0	mg/L		0.5		2	E200.7 07/09/08 16:12/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 06/30/08 13:48/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 06/27/08 09:31/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 06/27/08 09:31/jmh
Potassium	7.7	mg/L		0.5		2	E200.7 07/09/08 16:12/eli-c
Silica	4.3	mg/L		0.5		2	E200.7 07/09/08 16:12/eli-c
Sodium	174	mg/L	D	2		2	E200.7 07/09/08 16:12/eli-c
Sulfate	366	mg/L		1		20	E300.0 06/27/08 08:42/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1270	umhos/cm		5.0		1	A2510 B 07/01/08 11:24/tb
Oxidation-Reduction Potential	150	mV				1	A2580 B 06/27/08 00:00/jmh
pH	8.08	s.u.		0.01		1	A4500-H B 07/01/08 10:15/tb
Sodium Adsorption Ratio (SAR)	5.6	unitless		0.10		1	Calculation 08/20/08 17:12/ADM
Solids, Total Dissolved TDS @ 180 C	700	mg/L		5		1	A2540 C 06/27/08 12:05/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 07/09/08 16:12/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8 07/17/08 20:51/eli-c
Barium	ND	mg/L		0.1		2	E200.7 07/09/08 16:12/eli-c
Boron	ND	mg/L		0.1		2	E200.7 07/09/08 16:12/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 07/17/08 20:51/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 07/09/08 16:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8 07/17/08 20:51/eli-c
Iron	ND	mg/L		0.03		2	E200.7 07/09/08 16:12/eli-c
Lead	ND	mg/L		0.001		1	E200.8 07/17/08 20:51/eli-c
Manganese	0.04	mg/L		0.01		2	E200.7 07/09/08 16:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 07/17/08 20:51/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 07/09/08 16:12/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 07/09/08 16:12/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 07/19/08 15:02/eli-c
Silver	ND	mg/L		0.005		1	E200.8 07/17/08 20:51/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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.
 Page 10 of 12



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060452-004
 Client Sample ID: DewBurd GW689

Report Date: 08/20/08
 Collection Date: 06/25/08 18:18
 Date Received: 06/26/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	07/17/08 20:51/eli-c
Uranium	0.0034	mg/L		0.0003			1	E200.8	07/17/08 20:51/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	07/09/08 16:12/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/09/08 16:12/eli-c
METALS - SUSPENDED									
Uranium	0.0005	mg/L		0.0003			1	E200.8	07/10/08 11:56/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	07/19/08 12:03/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	07/19/08 14:37/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	36.5	pCi/L					1	E900.0	07/26/08 03:40/eli-c
Gross Alpha precision (±)	3.7	pCi/L					1	E900.0	07/26/08 03:40/eli-c
Gross Alpha MDC	2.8	pCi/L					1	E900.0	07/26/08 03:40/eli-c
Gross Beta	15.0	pCi/L					1	E900.0	07/26/08 03:40/eli-c
Gross Beta precision (±)	2.1	pCi/L					1	E900.0	07/26/08 03:40/eli-c
Gross Beta MDC	3.0	pCi/L					1	E900.0	07/26/08 03:40/eli-c
Lead 210	-6.5	pCi/L	U				1	E909.0M	07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L					1	E909.0M	07/11/08 07:20/eli-c
Lead 210 precision (±)	6.7	pCi/L					1	E909.0M	07/11/08 07:20/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	5.5	pCi/L					1	E903.0	07/21/08 22:27/eli-c
Radium 226 precision (±)	0.6	pCi/L					1	E903.0	07/21/08 22:27/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
Gross Gamma	0.0	pCi/L	U	20			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 - SUSPENDED									
Lead 210	1	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	0.1	pCi/L	U	1.0			1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.24	pCi/L					1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.05	pCi/L	U				1	E903.0	07/15/08 21:56/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08060452-004
 Client Sample ID: DewBurd GW689

Report Date: 08/20/08
 Collection Date: 06/25/08 18:18
 Date Received: 06/26/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	07/15/08 21:56/eli-c
Radium 226 MDC	0.5	pCi/L				1 E903.0	07/15/08 21:56/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							
Radon 222	2520	pCi/L		100		1 D5072-92	06/30/08 17:19/eli-c
Radon 222 precision (±)	109	pCi/L				1 D5072-92	06/30/08 17:19/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		10 E200.8	07/07/08 17:25/eli-c
Arsenic	0.003	mg/L		0.001		10 E200.8	07/07/08 17:25/eli-c
Barium	ND	mg/L		0.1		2 E200.7	07/08/08 00:15/eli-c
Beryllium	ND	mg/L		0.001		10 E200.8	07/07/08 17:25/eli-c
Boron	ND	mg/L		0.1		2 E200.7	07/08/08 00:15/eli-c
Cadmium	ND	mg/L		0.005		10 E200.8	07/07/08 17:25/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	07/08/08 00:15/eli-c
Copper	ND	mg/L		0.01		2 E200.7	07/08/08 00:15/eli-c
Iron	1.15	mg/L		0.03		2 E200.7	07/08/08 00:15/eli-c
Lead	0.017	mg/L	D	0.007		10 E200.8	07/07/08 17:25/eli-c
Manganese	0.07	mg/L		0.01		2 E200.7	07/08/08 00:15/eli-c
Mercury	ND	mg/L		0.0002		1 E245.1	07/10/08 16:11/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	07/08/08 00:15/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	07/08/08 00:15/eli-c
Selenium	ND	mg/L	D	0.002		10 E200.8	07/07/08 17:25/eli-c
Silver	ND	mg/L		0.005		10 E200.8	07/07/08 17:25/eli-c
Strontium	1.0	mg/L		0.1		2 E200.7	07/08/08 00:15/eli-c
Thallium	ND	mg/L		0.001		10 E200.8	07/07/08 17:25/eli-c
Uranium	0.0060	mg/L		0.0003		10 E200.8	07/07/08 17:25/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	07/08/08 00:15/eli-c
DATA QUALITY							
A/C Balance (± 5)	2.76	%				1 A1030 E	08/20/08 00:00/ikl
Anions	10.8	meq/L				1 A1030 E	08/20/08 00:00/ikl
Cations	11.4	meq/L				1 A1030 E	08/20/08 00:00/ikl
Solids, Total Dissolved Calculated	718	mg/L				1 A1030 E	08/20/08 00:00/ikl
TDS Balance (0.80 - 1.20)	0.980					1 A1030 E	08/20/08 00:00/ikl

Report RL - Analyte reporting limit.
 Definitions: 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.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080703A-ALK-SEL-W		
Sample ID: LCS1_080703A Alkalinity, Total as CaCO3	Laboratory Control Sample 948	mg/L	5.0	95	90	110			07/03/08 11:24
Sample ID: MBLK1_080703A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						07/03/08 11:25
Sample ID: R08060452-002AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 246	mg/L	5.0	102	80	120			07/03/08 11:59
Sample ID: R08060452-002AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 242	mg/L	5.0	98	80	120	1.6	10	07/03/08 12:01
Method: A2510 B							Batch: 080701_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080701 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			07/01/08 10:58
Sample ID: LCS1-1_080701 Conductivity @ 25 C	Laboratory Control Sample 160	umhos/cm	5.0	107	90	110			07/01/08 10:59
Sample ID: LCS2-1_080701 Conductivity @ 25 C	Laboratory Control Sample 5200	umhos/cm	5.0	104	90	110			07/01/08 11:01
Sample ID: R08060452-001ADUP Conductivity @ 25 C	Sample Duplicate 1420	umhos/cm	5.0				0.7	10	07/01/08 11:18
Sample ID: MBLK-1_080701 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						07/01/08 11:26
Method: A2540 C							Batch: 080627A-SLDS-TDS-W		
Sample ID: LCS1_080627A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 200	mg/L	5.0	98	90	110			06/27/08 11:42
Sample ID: MBLK1_080627A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						06/27/08 11:44
Sample ID: R08060452-002AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 910	mg/L	5.0	117	80	120			06/27/08 12:03
Sample ID: R08060452-002AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 910	mg/L	5.0	118	80	120	0.2	10	06/27/08 12:04

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: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080627-ORP-ISE-W		
Sample ID: LCS Oxidation-Reduction Potential	Laboratory Control Sample 470	mV		99	95	105			06/27/08 00:00
Sample ID: R08060452-001F Oxidation-Reduction Potential	Sample Duplicate 240	mV					1.8	10	06/27/08 00:00
Method: A3114 B							Batch: C_SE3114-080719A		
Sample ID: MBLK Selenium-IV	Method Blank ND	mg/L	6E-05						07/19/08 11:18
Sample ID: 288-106-2 Selenium-IV	Laboratory Control Sample 0.046	mg/L	0.0010	92	90	110			07/19/08 11:21
Sample ID: R08060452-001E Selenium-IV	Sample Matrix Spike 0.046	mg/L	0.0010	92	85	115			07/19/08 11:54
Sample ID: R08060452-001E Selenium-IV	Sample Matrix Spike Duplicate 0.047	mg/L	0.0010	94	85	115	2.5	10	07/19/08 11:56
Method: A3114 B							Batch: C_SE3114-080719C		
Sample ID: MBLK Selenium	Method Blank ND	mg/L	6E-05						07/19/08 14:18
Sample ID: 288-106-2 Selenium	Laboratory Control Sample 0.046	mg/L	0.0010	92	90	110			07/19/08 14:20
Sample ID: R08060452-001E Selenium	Sample Matrix Spike 0.051	mg/L	0.0010	103	85	115			07/19/08 14:54
Sample ID: R08060452-001E Selenium	Sample Matrix Spike Duplicate 0.052	mg/L	0.0010	105	85	115	1.9	10	07/19/08 14:56
Method: A4500-H B							Batch: 080701_1_PH-W		
Sample ID: LCS_pH-1_080701 pH	Laboratory Control Sample 6.91	s.u.	0.010	101	98.55	101.45			07/01/08 10:01
Sample ID: R08060452-002ADUP pH	Sample Duplicate 7.52	s.u.	0.010				0.5	1.25	07/01/08 10:14

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: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-06-30_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_080630A			06/30/08 13:22
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27	mg/L	0.10	106	90	110			06/30/08 13:23
						Run: TECHAA2-R_080630A			06/30/08 13:24
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	105	90	110			06/30/08 13:24
						Run: TECHAA2-R_080630A			06/30/08 13:38
Sample ID: R08060447-001BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.19	mg/L	0.10	77	80	120			S
						Run: TECHAA2-R_080630A			06/30/08 13:39
Sample ID: R08060447-001BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.19	mg/L	0.10	77	80	120	0.5	10	S
						Run: TECHAA2-R_080630A			06/30/08 13:57
Sample ID: R08060454-001CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.25	mg/L	0.10	100	80	120			06/30/08 13:57
						Run: TECHAA2-R_080630A			06/30/08 13:58
Sample ID: R08060454-001CMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.25	mg/L	0.10	101	80	120	0.8	10	
Method: D5072-92							Batch: C_R103572		
Sample ID: C08061327-001IDUP Radon 222	Sample Duplicate 285	pCi/L	100				24	30	06/30/08 17:19
						Run: SUB-C103572			06/30/08 17:19
Sample ID: MB-R103572 Radon 222	Method Blank 20	pCi/L							06/30/08 17:19
						Run: SUB-C103572			06/30/08 17:19
Sample ID: LCS-R103572 Radon 222	Laboratory Control Sample 300	pCi/L	100	93	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: 08/20/08
Work Order: R08060452

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		
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						
Strontium	ND	mg/L	0.0004						
Zinc	0.002	mg/L	0.001						
Sample ID: LCS3-18997	Laboratory Control Sample			Run: SUB-C103815			07/07/08 23:42		
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			
Strontium	0.506	mg/L	0.10	101	85	115			
Zinc	0.505	mg/L	0.010	101	85	115			
Sample ID: C08061335-006B MS3	Sample Matrix Spike			Run: SUB-C103815			07/08/08 00:44		
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			
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			
Strontium	1.06	mg/L	0.10	100	70	130			
Zinc	0.585	mg/L	0.010	100	70	130			
Sample ID: C08061335-006B MSD3	Sample Matrix Spike Duplicate			Run: SUB-C103815			07/08/08 00:48		
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

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18997
Sample ID: C08061335-006B MSD3	Sample Matrix Spike Duplicate								Run: SUB-C103815 07/08/08 00:48
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	
Strontium	1.05	mg/L	0.10	99	70	130	0.8	20	
Zinc	0.602	mg/L	0.010	103	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: 08/20/08
Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103988		
Sample ID: MB-080709A	Method Blank		Run: SUB-C103988			07/09/08 14:52			
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	0.009	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-080709A	Laboratory Fortified Blank		Run: SUB-C103988			07/09/08 14:56			
Silica	0.37	mg/L	0.10	91	85	125			
Aluminum	1.0	mg/L	0.10	104	85	125			
Barium	1.0	mg/L	0.10	101	85	125			
Boron	1.0	mg/L	0.10	100	85	125			
Calcium	53	mg/L	0.50	105	85	125			
Chromium	1.0	mg/L	0.050	102	85	125			
Iron	1.1	mg/L	0.030	107	85	125			
Magnesium	53	mg/L	0.50	106	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	93	85	125			
Sodium	50	mg/L	0.77	100	85	125			
Vanadium	1.0	mg/L	0.10	104	85	125			
Zinc	1.0	mg/L	0.010	103	85	125			
Sample ID: C08061365-007BMS2	Sample Matrix Spike		Run: SUB-C103988			07/09/08 16:24			
Aluminum	4.94	mg/L	0.10	99	70	130			
Barium	4.75	mg/L	0.10	95	70	130			
Boron	5.38	mg/L	0.10	96	70	130			
Chromium	4.88	mg/L	0.050	98	70	130			
Iron	5.00	mg/L	0.030	100	70	130			
Manganese	4.84	mg/L	0.010	97	70	130			
Molybdenum	4.93	mg/L	0.10	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: 08/20/08
 Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103988		
Sample ID: C08061365-007BMS2	Sample Matrix Spike			Run: SUB-C103988			07/09/08 16:24		
Nickel	4.82	mg/L	0.050	96	70	130			
Vanadium	4.91	mg/L	0.10	98	70	130			
Zinc	4.99	mg/L	0.011	99	70	130			
Calcium	258	mg/L	1.0	98	70	130			
Magnesium	250	mg/L	1.0	99	70	130			
Potassium	220	mg/L	1.0	87	70	130			
Silica	8.66	mg/L	0.10	82	70	130			
Sodium	773	mg/L	3.9	88	70	130			
Sample ID: C08061365-007BMSD2	Sample Matrix Spike Duplicate			Run: SUB-C103988			07/09/08 16:28		
Aluminum	4.91	mg/L	0.10	98	70	130	0.6	20	
Barium	4.76	mg/L	0.10	95	70	130	0.1	20	
Boron	5.41	mg/L	0.10	97	70	130	0.7	20	
Chromium	4.85	mg/L	0.050	97	70	130	0.6	20	
Iron	5.00	mg/L	0.030	100	70	130	0.0	20	
Manganese	4.81	mg/L	0.010	96	70	130	0.6	20	
Molybdenum	4.95	mg/L	0.10	99	70	130	0.4	20	
Nickel	4.80	mg/L	0.050	96	70	130	0.5	20	
Vanadium	4.83	mg/L	0.10	97	70	130	1.6	20	
Zinc	4.98	mg/L	0.011	99	70	130	0.3	20	
Calcium	257	mg/L	1.0	98	70	130	0.6	20	
Magnesium	249	mg/L	1.0	99	70	130	0.6	20	
Potassium	221	mg/L	1.0	88	70	130	0.6	20	
Silica	8.55	mg/L	0.10	76	70	130	1.3	20	
Sodium	778	mg/L	3.9	91	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: 08/20/08
Work Order: R08060452

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			
Antimony	0.0004	mg/L	0.0002						
Arsenic	0.0009	mg/L	5E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Lead	0.006	mg/L							
Selenium	0.0004	mg/L	0.0002						
Silver	6E-05	mg/L	5E-05						
Thallium	ND	mg/L	4E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18997	Laboratory Control Sample		Run: SUB-C103823			07/07/08 16:58			
Antimony	0.569	mg/L	0.050	114	85	115			
Arsenic	0.554	mg/L	0.0010	111	85	115			
Beryllium	0.265	mg/L	0.010	106	85	115			
Cadmium	0.270	mg/L	0.010	108	85	115			
Lead	0.562	mg/L	0.050	111	85	115			
Selenium	0.556	mg/L	0.0020	111	85	115			
Silver	0.0448	mg/L	0.010	89	85	115			
Thallium	0.532	mg/L	0.10	106	85	115			
Uranium	0.543	mg/L	0.00032	109	85	115			
Sample ID: C08061335-006BMS3	Sample Matrix Spike		Run: SUB-C103823			07/07/08 18:33			
Antimony	0.409	mg/L	0.050	82	70	130			
Arsenic	0.638	mg/L	0.0010	125	70	130			
Beryllium	0.285	mg/L	0.010	113	70	130			
Cadmium	0.305	mg/L	0.010	122	70	130			
Lead	0.651	mg/L	0.050	122	70	130			
Selenium	0.627	mg/L	0.0020	125	70	130			
Silver	0.0530	mg/L	0.010	106	70	130			
Thallium	0.607	mg/L	0.10	121	70	130			
Uranium	0.630	mg/L	0.00032	126	70	130			
Sample ID: C08061335-006BMSD3	Sample Matrix Spike Duplicate		Run: SUB-C103823			07/07/08 18:40			
Antimony	0.397	mg/L	0.050	79	70	130	2.9	20	
Arsenic	0.632	mg/L	0.0010	124	70	130	0.8	20	
Beryllium	0.282	mg/L	0.010	112	70	130	1.1	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	
Selenium	0.625	mg/L	0.0020	124	70	130	0.3	20	
Silver	0.0550	mg/L	0.010	110	70	130	3.8	20	
Thallium	0.596	mg/L	0.10	119	70	130	1.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18997		
Sample ID: C08061335-006BMSD3	Sample Matrix Spike Duplicate			Run: SUB-C103823		07/07/08 18:40			
Uranium	0.614	mg/L	0.00032	122	70	130	2.6	20	
Method: E200.8							Batch: C_19014		
Sample ID: MB-19014	Method Blank			Run: SUB-C104018		07/10/08 11:31			
Uranium	2E-05	mg/L	2E-05						
Sample ID: LCS1-19014	Laboratory Control Sample			Run: SUB-C104018		07/10/08 11:36			
Uranium	0.0504	mg/L	0.00030	96	80	120			
Sample ID: C08061394-007IMS4	Post Digestion Spike			Run: SUB-C104018		07/10/08 12:51			
Uranium	0.0119	mg/L	0.00030	95	70	130			
Sample ID: C08061394-007IMSD4	Post Digestion Spike Duplicate			Run: SUB-C104018		07/10/08 12:56			
Uranium	0.0120	mg/L	0.00030	95	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: 08/20/08
 Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104306		
Sample ID: LRB	Method Blank		Run: SUB-C104306			07/15/08 12:08			
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	7E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C104306			07/15/08 12:15			
Arsenic	0.0503	mg/L	0.0010	101	85	115			
Cadmium	0.0500	mg/L	0.0010	100	85	115			
Copper	0.0505	mg/L	0.0010	101	85	115			
Lead	0.0512	mg/L	0.0010	102	85	115			
Mercury	0.00506	mg/L	0.0010	101	85	115			
Silver	0.0194	mg/L	0.0010	97	85	115			
Thorium 232	0.0507	mg/L	0.0010	101	85	115			
Uranium	0.0509	mg/L	0.00030	102	85	115			
Sample ID: C08061021-002CMS4	Post Digestion Spike		Run: SUB-C104306			07/15/08 19:27			
Arsenic	0.459	mg/L	0.0010	90	70	130			
Cadmium	0.433	mg/L	0.010	86	70	130			
Copper	0.464	mg/L	0.010	89	70	130			
Lead	0.456	mg/L	0.050	87	70	130			
Mercury	0.0437	mg/L	0.0010	87	70	130			
Silver	0.172	mg/L	0.010	86	70	130			
Thorium 232	0.436	mg/L	0.0010	86	70	130			
Uranium	0.439	mg/L	0.00030	87	70	130			
Sample ID: C08061021-002CMSD4	Post Digestion Spike Duplicate		Run: SUB-C104306			07/15/08 19:34			
Arsenic	0.541	mg/L	0.0010	107	70	130	16	20	
Cadmium	0.530	mg/L	0.010	106	70	130	20	20	R
Copper	0.541	mg/L	0.010	104	70	130	15	20	
Lead	0.546	mg/L	0.050	105	70	130	18	20	
Mercury	0.0529	mg/L	0.0010	106	70	130	19	20	
Silver	0.177	mg/L	0.010	89	70	130	3.2	20	
Thorium 232	0.528	mg/L	0.0010	105	70	130	19	20	
Uranium	0.528	mg/L	0.00030	105	70	130	18	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: 08/20/08
Work Order: R08060452

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: R08060452-001C	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			
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: R08060452-001C	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	

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: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Batch: B_33447
Sample ID: MB-33447	Method Blank								Run: SUB-B113849 07/10/08 15:05
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33447	Laboratory Fortified Blank								Run: SUB-B113849 07/10/08 15:08
Mercury	0.0020	mg/L	0.0010	98	85	115			
Sample ID: B08062984-005CMS	Sample Matrix Spike								Run: SUB-B113849 07/10/08 15:36
Mercury	0.0021	mg/L	0.0010	103	70	130			
Sample ID: B08062984-005CMSD	Sample Matrix Spike Duplicate								Run: SUB-B113849 07/10/08 15:38
Mercury	0.0021	mg/L	0.0010	103	70	130	1.0	30	
Method: E245.1									Analytical Run: SUB-B113849
Sample ID: QCS	Initial Calibration Verification Standard								07/10/08 14:56
Mercury	0.0019	mg/L	0.0010	94	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: 08/20/08
 Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35707		
Sample ID: LFB0806260829-3	Laboratory Fortified Blank			Run: DIONEX_080627A			06/26/08 19:18		
Chloride	4.77	mg/L	0.50	95	90	110			
Fluoride	1.82	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.46	mg/L	0.10	98	90	110			
Sulfate	13.9	mg/L	1.0	92	90	110			
Sample ID: LFB0806260829-4	Laboratory Fortified Blank			Run: DIONEX_080627A			06/26/08 19:34		
Chloride	4.71	mg/L	0.50	94	90	110			
Fluoride	1.84	mg/L	0.10	92	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.48	mg/L	0.10	99	90	110			
Sulfate	14.0	mg/L	1.0	93	90	110			
Sample ID: R08060449-002AMS	Sample Matrix Spike			Run: DIONEX_080627A			06/27/08 05:41		
Chloride	25.1	mg/L	0.50		80	120			A
Fluoride	2.90	mg/L	0.10	95	80	120			
Nitrogen, Nitrate as N	2.59	mg/L	0.10	98	80	120			
Nitrogen, Nitrite as N	2.50	mg/L	0.10	100	80	120			
Sulfate	286	mg/L	1.0		80	120			A
Sample ID: R08060449-002AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080627A			06/27/08 05:58		
Chloride	25.1	mg/L	0.50		80	120	0.2	10	A
Fluoride	2.81	mg/L	0.10	91	80	120	3.2	10	
Nitrogen, Nitrate as N	2.49	mg/L	0.10	94	80	120	3.9	10	
Nitrogen, Nitrite as N	2.35	mg/L	0.10	94	80	120	6.2	10	
Sulfate	286	mg/L	1.0		80	120	0.0	10	A
Sample ID: R08060452-004AMS	Sample Matrix Spike			Run: DIONEX_080627A			06/27/08 08:58		
Chloride	98.8	mg/L	2.2	88	80	120			
Fluoride	37.3	mg/L	0.22	86	80	120			
Nitrogen, Nitrate as N	46.5	mg/L	0.50	93	80	120			
Nitrogen, Nitrite as N	49.4	mg/L	1.2	99	80	120			
Sulfate	598	mg/L	1.3	77	80	120			S
Sample ID: R08060452-004AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080627A			06/27/08 09:15		
Chloride	97.3	mg/L	2.2	87	80	120	1.5	10	
Fluoride	36.6	mg/L	0.22	84	80	120	1.9	10	
Nitrogen, Nitrate as N	45.6	mg/L	0.50	91	80	120	2.0	10	
Nitrogen, Nitrite as N	48.6	mg/L	1.2	97	80	120	1.5	10	
Sulfate	592	mg/L	1.3	75	80	120	1.0	10	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: 08/20/08
 Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
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: 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	
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							
Sample ID: C08061335-006IDUP	Sample Duplicate				Run: SUB-C104392			07/14/08 11:00	
Gross Gamma	ND	pCi/L	20				0.0	30	
Sample ID: C08061372-014ADUP	Sample Duplicate				Run: SUB-C104392			07/14/08 11:00	
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: 08/20/08
Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_19014		
Sample ID: R08060452-004I Radium 226	Sample Matrix Spike 140 pCi/L			92	70	130			07/15/08 21:56
Sample ID: R08060452-004I Radium 226	Sample Matrix Spike Duplicate 150 pCi/L			95	70	130	3.6	24.2	07/15/08 21:56
Sample ID: LCS-19014 Radium 226	Laboratory Control Sample 13 pCi/L			94	70	130			07/16/08 01:53
Sample ID: MB-19014 Radium 226	Method Blank -2 pCi/L								07/16/08 01:53 U
Method: E903.0							Batch: C_RA226-2936		
Sample ID: MB-RA226-2936 Radium 226	Method Blank -0.1 pCi/L								07/21/08 18:07 U
Sample ID: LCS-RA226-2936 Radium 226	Laboratory Control Sample 7.6 pCi/L			98	70	130			07/22/08 00:40
Sample ID: C08061394-007HMS Radium 226	Sample Matrix Spike 17 pCi/L			107	70	130			07/22/08 00:40
Sample ID: C08061394-007HMSD Radium 226	Sample Matrix Spike Duplicate 16 pCi/L			103	70	130	3.9	23.9	07/22/08 00:40
Method: E907.0							Batch: C_19014		
Sample ID: C08061394-007IMS Thorium 230	Sample Matrix Spike 21.4 pCi/L		0.20	92	70	130			07/11/08 17:06
Sample ID: C08061394-007IMSD Thorium 230	Sample Matrix Spike Duplicate 19.9 pCi/L		0.20	90	70	130	7.4	30	07/11/08 17:07
Sample ID: LCS-19014 Thorium 230	Laboratory Control Sample 46.6 pCi/L		0.20	98	70	130			07/11/08 17:07
Sample ID: MB-19014 Thorium 230	Method Blank -0.08 pCi/L								07/11/08 17:07 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: R08060452

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: R08060452-002H	Sample Matrix Spike				Run: SUB-C104913				07/21/08 21:24
Thorium 230	15.3	pCi/L	0.20	94	70	130			
Sample ID: R08060452-002H	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_R105208		
Sample ID: C08061394-002HMS	Sample Matrix Spike				Run: SUB-C105208				07/11/08 07:20
Lead 210	310	pCi/L		53	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: C08061394-002HMSD	Sample Matrix Spike Duplicate				Run: SUB-C105208				07/11/08 07:20
Lead 210	360	pCi/L		61	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: R08060452-001H	Sample Duplicate				Run: SUB-C105208				07/11/08 07:20
Lead 210	-5.5	pCi/L	1.0				0.0	30	U
Sample ID: MB-R105208	Method Blank				Run: SUB-C105208				07/11/08 07:20
Lead 210	-5	pCi/L							U
Sample ID: LCS-R105208	Laboratory Control Sample				Run: SUB-C105208				07/11/08 07:20
Lead 210	110	pCi/L		96	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: 08/20/08
Work Order: R08060452

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: C08061335-003JMS	Sample Matrix Spike				Run: SUB-C104448			07/10/08 21:30	
Polonium 210	79	pCi/L	1.0	91	70	130			
Sample ID: C08061335-003JMSD	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

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

PLEASE PRINT - Provide as much information as possible.

Company Name: DESER		Project Name: PWS, Permit, Etc.		Sample Origin State:	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address:		Contact Name: Robert Tech Dewey Burdock		Sampler: (Please Print) ERIC KRANE		
Invoice Address:		Phone/Fax: 605.294.4700		Quote/Bottle Order:		
Special Report/Formats - EII must be notified prior to sample submittal for the following:		Purchase Order:		Shipped by: Cooler Pkg:		
<input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> GSA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> Format: _____ <input type="checkbox"/> State: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: _____ <input type="checkbox"/> NELAC		Number of Containers Sample Type: AWS V B O Air Water Soils/Solids Vegetation Bioassay Other		Receipt Temp: 8.4 °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal Intact: Y N Signature: Y N		
ANALYSIS REQUESTED		SEE ATTACHED		Normal Turnaround (TAT)		
MATRIX Comments: All GW		RUSH sample submittal for charges and scheduling - See Instruction Page		Comments: All GW		
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) Collection Date Collection Time		RECEIVED BY (PRINT) Date/Time		RECEIVED BY (PRINT) Date/Time		
1	Dewburd GW 622	6/25/08	12:05	W	set 8 No. 2nd well	6/25/08 15:20:01
2	Dewburd GW 615	6/25/08	13:55	W	set 9	6/25/08 15:20:01
3	Dewburd GW 689	6/25/08	17:30	W	set 14	6/25/08 15:20:01
4	Dewburd GW 689	6/25/08	18:18	W	set 11	6/25/08 15:20:01
5						
6						
7						
8						
9						
10						
Custody Record MUST be Signed		Hallmarked by (print): Eric Krane Date/Time: 6/25/08 09:30 Signature: <i>[Signature]</i>		Received by (print): Steve Proband Date/Time: 6/26/08 9:30 Signature: <i>[Signature]</i>		
Sample Disposal: Return to Client:		Lab Disposal:		Received by Laboratory: _____ Date/Time: _____ 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 service as notice of this possibility. All sub-contract data will be clearly rotated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

August 21, 2008

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

Workorder No.: R08070005 Quote ID: R286

Project Name: Edgemont

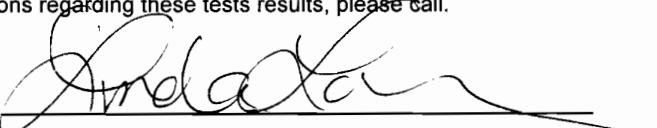
Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 7/1/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08070005-001	DewBurd GW16	06/30/08 13:45	07/01/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08070005-002	DewBurd GW688	06/30/08 18:39	07/01/08	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



Date: 21-Aug-08

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08070005

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 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.
- 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: C08070216

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: C08070216



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070005-001
 Client Sample ID: DewBurd GW16

Report Date: 08/21/08
 Collection Date: 06/30/08 13:45
 Date Received: 07/01/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	150	mg/L		5		1	A2320 B 07/03/08 12:27/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/03/08 12:27/mb
Bicarbonate as HCO3	183	mg/L		5		1	A2320 B 07/03/08 12:27/mb
Calcium	125	mg/L		0.5		2	E200.7 07/10/08 18:43/eli-c
Chloride	4	mg/L		1		1	E300.0 07/01/08 22:19/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0 07/01/08 22:19/jmh
Magnesium	47.0	mg/L		0.5		2	E200.7 07/10/08 18:43/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 07/12/08 17:06/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 07/01/08 22:19/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 07/01/08 22:19/jmh
Potassium	16.7	mg/L		0.5		2	E200.7 07/10/08 18:43/eli-c
Silica	3.9	mg/L		0.5		2	E200.7 07/10/08 18:43/eli-c
Sodium	48	mg/L	D	2		2	E200.7 07/10/08 18:43/eli-c
Sulfate	401	mg/L	D	3		50	E300.0 07/01/08 22:03/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1000	umhos/cm		5.0		1	A2510 B 07/02/08 11:39/tb
Oxidation-Reduction Potential	230	mV				1	A2580 B 07/07/08 14:00/jmh
pH	7.38	s.u.		0.01		1	A4500-H B 07/02/08 10:52/tb
Sodium Adsorption Ratio (SAR)	0.93	unitless		0.10		1	Calculation 08/21/08 17:06/ADM
Solids, Total Dissolved TDS @ 180 C	780	mg/L		5		1	A2540 C 07/02/08 16:37/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 07/10/08 18:43/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8 07/22/08 01:09/eli-c
Barium	ND	mg/L		0.1		2	E200.7 07/10/08 18:43/eli-c
Boron	ND	mg/L		0.1		2	E200.7 07/10/08 18:43/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 07/22/08 01:09/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 07/10/08 18:43/eli-c
Copper	ND	mg/L		0.01		1	E200.8 07/22/08 01:09/eli-c
Iron	ND	mg/L		0.03		2	E200.7 07/10/08 18:43/eli-c
Lead	ND	mg/L		0.001		1	E200.8 07/22/08 01:09/eli-c
Manganese	0.14	mg/L		0.01		2	E200.7 07/10/08 18:43/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 07/22/08 01:09/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 07/10/08 18:43/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 07/10/08 18:43/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 07/19/08 16:30/eli-c
Silver	ND	mg/L		0.005		1	E200.8 07/22/08 01:09/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070005-001
 Client Sample ID: DewBurd GW16

Report Date: 08/21/08
 Collection Date: 06/30/08 13:45
 Date Received: 07/01/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/22/08 01:09/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 07/22/08 01:09/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/10/08 18:43/eli-c
Zinc	0.02	mg/L		0.01		2	E200.7 07/10/08 18:43/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 07/21/08 12:50/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/19/08 13:34/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/19/08 14:40/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	28.3	pCi/L				1	E900.0 07/26/08 03:40/eli-c
Gross Alpha precision (±)	3.5	pCi/L				1	E900.0 07/26/08 03:40/eli-c
Gross Alpha MDC	2.9	pCi/L				1	E900.0 07/26/08 03:40/eli-c
Gross Beta	19.3	pCi/L				1	E900.0 07/26/08 03:40/eli-c
Gross Beta precision (±)	2.2	pCi/L				1	E900.0 07/26/08 03:40/eli-c
Gross Beta MDC	3.1	pCi/L				1	E900.0 07/26/08 03:40/eli-c
Lead 210	2.0	pCi/L	U			1	E909.0M 07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M 07/24/08 08:45/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M 07/24/08 08:45/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008 07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008 07/14/08 17:45/eli-c
Radium 226	6.4	pCi/L				1	E903.0 08/06/08 18:41/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0 08/06/08 18:41/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
Gross Gamma	760	pCi/L		20		1	E901.1 07/17/08 13:12/eli-c
Gross Gamma precision (±)	150	pCi/L				1	E901.1 07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-0.4	pCi/L	U			1	E909.0M 07/17/08 09:30/eli-c
Lead 210 precision (±)	6.3	pCi/L				1	E909.0M 07/17/08 09:30/eli-c
Lead 210 MDC	10.6	pCi/L				1	E909.0M 07/17/08 09:30/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.21	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0 07/23/08 22:55/eli-c

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

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

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070005-001
 Client Sample ID: DewBurd GW16

Report Date: 08/21/08
 Collection Date: 06/30/08 13:45
 Date Received: 07/01/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	07/23/08 22:55/eli-c
Radium 226 MDC	0.4	pCi/L				1 E903.0	07/23/08 22:55/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	07/21/08 15:32/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	07/21/08 15:32/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	3150	pCi/L		100		1 D5072-92	07/08/08 05:45/eli-c
Radon 222 precision (±)	128	pCi/L				1 D5072-92	07/08/08 05:45/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		10 E200.8	07/08/08 12:35/eli-c
Arsenic	ND	mg/L	D	0.002		10 E200.8	07/08/08 12:35/eli-c
Barium	ND	mg/L		0.1		10 E200.8	07/08/08 12:35/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	07/21/08 14:24/eli-c
Boron	ND	mg/L		0.1		2 E200.7	07/09/08 03:57/eli-c
Cadmium	ND	mg/L		0.005		10 E200.8	07/08/08 12:35/eli-c
Chromium	ND	mg/L		0.05		10 E200.8	07/08/08 12:35/eli-c
Copper	ND	mg/L		0.01		10 E200.8	07/08/08 12:35/eli-c
Iron	0.26	mg/L		0.03		2 E200.7	07/09/08 03:57/eli-c
Lead	ND	mg/L	D	0.003		10 E200.8	07/08/08 12:35/eli-c
Manganese	0.13	mg/L		0.01		10 E200.8	07/08/08 12:35/eli-c
Mercury	ND	mg/L		0.0002		1 E245.1	07/11/08 09:11/eli-b
Molybdenum	ND	mg/L		0.1		10 E200.8	07/08/08 12:35/eli-c
Nickel	ND	mg/L		0.05		10 E200.8	07/08/08 12:35/eli-c
Selenium	0.002	mg/L	D	0.002		10 E200.8	07/08/08 12:35/eli-c
Silver	ND	mg/L		0.005		10 E200.8	07/08/08 12:35/eli-c
Strontium	2.7	mg/L		0.1		10 E200.8	07/08/08 12:35/eli-c
Thallium	ND	mg/L		0.001		10 E200.8	07/08/08 12:35/eli-c
Uranium	ND	mg/L		0.0003		10 E200.8	07/08/08 12:35/eli-c
Zinc	ND	mg/L	D	0.03		10 E200.8	07/08/08 12:35/eli-c
DATA QUALITY							
A/C Balance (± 5)	4.63	%				1 A1030 E	08/21/08 00:00/lkl
Anions	11.5	meq/L				1 A1030 E	08/21/08 00:00/lkl
Cations	12.6	meq/L				1 A1030 E	08/21/08 00:00/lkl
Solids, Total Dissolved Calculated	743	mg/L				1 A1030 E	08/21/08 00:00/lkl
TDS Balance (0.80 - 1.20)	1.04					1 A1030 E	08/21/08 00:00/lkl

Report RL - Analyte reporting limit.

Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070005-002
 Client Sample ID: DewBurd GW688

Report Date: 08/21/08
 Collection Date: 06/30/08 18:39
 Date Received: 07/01/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	136	mg/L		5		1	A2320 B 07/03/08 12:36/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/03/08 12:36/mb
Bicarbonate as HCO3	156	mg/L		5		1	A2320 B 07/03/08 12:36/mb
Calcium	40.4	mg/L		0.5		2	E200.7 07/10/08 18:47/eli-c
Chloride	11	mg/L		1		1	E300.0 07/01/08 22:52/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0 07/01/08 22:52/jmh
Magnesium	19.2	mg/L		0.5		2	E200.7 07/10/08 18:47/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G 07/12/08 17:07/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 07/01/08 22:52/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 07/01/08 22:52/jmh
Potassium	12.9	mg/L		0.5		2	E200.7 07/10/08 18:47/eli-c
Silica	3.8	mg/L		0.5		2	E200.7 07/10/08 18:47/eli-c
Sodium	191	mg/L	D	2		2	E200.7 07/10/08 18:47/eli-c
Sulfate	407	mg/L	D	3		50	E300.0 07/01/08 22:36/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1140	umhos/cm		5.0		1	A2510 B 07/02/08 11:40/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B 07/07/08 14:00/jmh
pH	8.60	s.u.		0.01		1	A4500-H B 07/02/08 10:52/tb
Sodium Adsorption Ratio (SAR)	6.2	unitless		0.10		1	Calculation 08/21/08 17:06/ADM
Solids, Total Dissolved TDS @ 180 C	770	mg/L		5		1	A2540 C 07/02/08 16:38/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 07/10/08 18:47/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 07/22/08 01:16/eli-c
Barium	ND	mg/L		0.1		2	E200.7 07/10/08 18:47/eli-c
Boron	ND	mg/L		0.1		2	E200.7 07/10/08 18:47/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 07/22/08 01:16/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 07/10/08 18:47/eli-c
Copper	ND	mg/L		0.01		1	E200.8 07/22/08 01:16/eli-c
Iron	ND	mg/L		0.03		2	E200.7 07/10/08 18:47/eli-c
Lead	ND	mg/L		0.001		1	E200.8 07/22/08 01:16/eli-c
Manganese	0.02	mg/L		0.01		2	E200.7 07/10/08 18:47/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 07/22/08 01:16/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 07/10/08 18:47/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 07/10/08 18:47/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 07/19/08 16:36/eli-c
Silver	ND	mg/L		0.005		1	E200.8 07/22/08 01:16/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070005-002
 Client Sample ID: DewBurd GW688

Report Date: 08/21/08
 Collection Date: 06/30/08 18:39
 Date Received: 07/01/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	07/22/08 01:16/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/22/08 01:16/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/10/08 18:47/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/10/08 18:47/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/21/08 12:57/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 13:40/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:40/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	13.2	pCi/L				1	E900.0	07/26/08 03:40/eli-c
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0	07/26/08 03:40/eli-c
Gross Alpha MDC	3.1	pCi/L				1	E900.0	07/26/08 03:40/eli-c
Gross Beta	16.5	pCi/L				1	E900.0	07/26/08 03:40/eli-c
Gross Beta precision (±)	3.0	pCi/L				1	E900.0	07/26/08 03:40/eli-c
Gross Beta MDC	4.5	pCi/L				1	E900.0	07/26/08 03:40/eli-c
Lead 210	-0.1	pCi/L	U			1	E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	07/14/08 17:45/eli-c
Radium 226	0.6	pCi/L				1	E903.0	08/06/08 18:41/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/06/08 18:41/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
Gross Gamma	1000	pCi/L		20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-2.3	pCi/L	U			1	E909.0M	07/17/08 09:30/eli-c
Lead 210 precision (±)	6.0	pCi/L				1	E909.0M	07/17/08 09:30/eli-c
Lead 210 MDC	10.1	pCi/L				1	E909.0M	07/17/08 09:30/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.38	pCi/L				1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	07/23/08 22:55/eli-c

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070005-002
 Client Sample ID: DewBurd GW688

Report Date: 08/21/08
 Collection Date: 06/30/08 18:39
 Date Received: 07/01/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		DF	Method	Analysis Date / By
					QCL				
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/23/08 22:55/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	07/23/08 22:55/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/21/08 15:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/21/08 15:33/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	426	pCi/L		100			1	D5072-92	07/08/08 05:45/eli-c
Radon 222 precision (±)	91.9	pCi/L					1	D5072-92	07/08/08 05:45/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/08/08 12:42/eli-c
Arsenic	0.003	mg/L	D	0.002			10	E200.8	07/08/08 12:42/eli-c
Barium	ND	mg/L		0.1			10	E200.8	07/08/08 12:42/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	07/21/08 14:38/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/09/08 04:01/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/08/08 12:42/eli-c
Chromium	ND	mg/L		0.05			10	E200.8	07/08/08 12:42/eli-c
Copper	ND	mg/L		0.01			10	E200.8	07/08/08 12:42/eli-c
Iron	0.08	mg/L		0.03			2	E200.7	07/09/08 04:01/eli-c
Lead	ND	mg/L	D	0.003			10	E200.8	07/08/08 12:42/eli-c
Manganese	0.02	mg/L		0.01			10	E200.8	07/08/08 12:42/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/11/08 09:14/eli-b
Molybdenum	ND	mg/L		0.1			10	E200.8	07/08/08 12:42/eli-c
Nickel	ND	mg/L		0.05			10	E200.8	07/08/08 12:42/eli-c
Selenium	0.003	mg/L	D	0.002			10	E200.8	07/08/08 12:42/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/08/08 12:42/eli-c
Strontium	1.1	mg/L		0.1			10	E200.8	07/08/08 12:42/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/08/08 12:42/eli-c
Uranium	ND	mg/L		0.0003			10	E200.8	07/08/08 12:42/eli-c
Zinc	ND	mg/L		0.01			10	E200.8	07/08/08 12:42/eli-c
DATA QUALITY									
A/C Balance (± 5)	3.05	%					1	A1030 E	08/21/08 00:00/lkl
Anions	11.5	meq/L					1	A1030 E	08/21/08 00:00/lkl
Cations	12.3	meq/L					1	A1030 E	08/21/08 00:00/lkl
Solids, Total Dissolved Calculated	774	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 RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 6 of 6
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B		Batch: 080703A-ALK-SEL-W							
Sample ID: LCS1_080703A Alkalinity, Total as CaCO3	Laboratory Control Sample 948	mg/L	5.0	95	90	110			Run: PH_COND1-R_080703A 07/03/08 11:24
Sample ID: MBLK1_080703A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080703A 07/03/08 11:25
Sample ID: R08070005-002AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 250	mg/L	5.0	108	80	120			Run: PH_COND1-R_080703A 07/03/08 12:37
Sample ID: R08070005-002AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 242	mg/L	5.0	100	80	120	3.3	10	Run: PH_COND1-R_080703A 07/03/08 12:41
Method: A2510 B		Batch: 080702_1_COND-PROBE-W							
Sample ID: LCS_COND-1_080702 Conductivity @ 25 C	Laboratory Control Sample 1400	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080702B 07/02/08 11:33
Sample ID: LCS1-1_080702 Conductivity @ 25 C	Laboratory Control Sample 148	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080702B 07/02/08 11:33
Sample ID: LCS2-1_080702 Conductivity @ 25 C	Laboratory Control Sample 4960	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080702B 07/02/08 11:34
Sample ID: MBLK-1_080702 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080702B 07/02/08 11:37
Method: A2540 C		Batch: 080702A-SLDS-TDS-W							
Sample ID: LCS1_080702A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 220	mg/L	5.0	108	90	110			Run: BAL-4-R_080702A 07/02/08 16:34
Sample ID: MBLK1_080702A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						Run: BAL-4-R_080702A 07/02/08 16:35
Sample ID: R08060475-001BMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 560	mg/L	5.0	90	80	120			Run: BAL-4-R_080702A 07/02/08 16:36
Sample ID: R08060475-001BMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 570	mg/L	5.0	95	80	120	1.8	10	Run: BAL-4-R_080702A 07/02/08 16:36

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: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080707-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample					Run: PH_COND1-R_080707A			07/07/08 14:00
Oxidation-Reduction Potential	480	mV		100	95	105			
Sample ID: R08070005-001F	Sample Duplicate					Run: PH_COND1-R_080707A			07/07/08 14:00
Oxidation-Reduction Potential	230	mV					1.5	10	
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: R08070005-001E	Sample Matrix Spike					Run: SUB-C104481			07/19/08 13:36
Selenium-IV	0.052	mg/L	0.0010	103	85	115			
Sample ID: R08070005-001E	Sample Matrix Spike Duplicate					Run: SUB-C104481			07/19/08 13:38
Selenium-IV	0.052	mg/L	0.0010	104	85	115	0.9	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: 288-106-2	Laboratory Control Sample					Run: SUB-C104485			07/19/08 15:47
Selenium	0.050	mg/L	0.0010	100	90	110			
Sample ID: R08070005-001E	Sample Matrix Spike					Run: SUB-C104485			07/19/08 16:32
Selenium	0.055	mg/L	0.0010	110	85	115			
Sample ID: R08070005-001E	Sample Matrix Spike Duplicate					Run: SUB-C104485			07/19/08 16:34
Selenium	0.055	mg/L	0.0010	109	85	115	0.6	10	
Method: A4500-H B							Batch: 080702_1_PH-W		
Sample ID: LCS_pH-1_080702	Laboratory Control Sample					Run: PH_COND2-R_080702A			07/02/08 10:45
pH	6.90	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: 08/21/08
 Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-07-12_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_080712A			07/12/08 16:27
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	104	90	110			
						Run: TECHAA2-R_080712A			07/12/08 16:28
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27	mg/L	0.10	107	90	110			
						Run: TECHAA2-R_080712A			07/12/08 16:30
Sample ID: R08060509-005AMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.24	mg/L	0.10	97	80	120			
						Run: TECHAA2-R_080712A			07/12/08 17:00
Sample ID: R08060509-005AMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.24	mg/L	0.10	96	80	120	0.4	10	
						Run: TECHAA2-R_080712A			07/12/08 17:01
Sample ID: R08070028-003BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.17	mg/L	0.10	67	80	120			S
						Run: TECHAA2-R_080712A			07/12/08 17:14
Sample ID: R08070028-003BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.20	mg/L	0.10	80	80	120	17	10	R
						Run: TECHAA2-R_080712A			07/12/08 17:15
Method: D5072-92							Batch: C_R104020		
Sample ID: R08070005-002G Radon 222	Sample Duplicate 362	pCi/L	100				16	30	
						Run: SUB-C104020			07/08/08 05:45
Sample ID: MB-R104020 Radon 222	Method Blank -20	pCi/L							
						Run: SUB-C104020			07/08/08 05:45
Sample ID: LCS-R104020 Radon 222	Laboratory Control Sample 303	pCi/L	100	100	70	130			
						Run: SUB-C104020			07/08/08 05:45

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: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19044		
Sample ID: MB-19044	Method Blank			Run: SUB-C103914			07/09/08 03:04		
Boron	0.04	mg/L	0.01						
Iron	ND	mg/L	0.009						
Sample ID: LCS3-19044	Laboratory Control Sample			Run: SUB-C103914			07/09/08 03:08		
Boron	0.535	mg/L	0.10	99	85	115			
Iron	2.57	mg/L	0.030	103	85	115			
Sample ID: R08070005-002D	Sample Matrix Spike			Run: SUB-C103914			07/09/08 04:05		
Boron	0.581	mg/L	0.10	105	70	130			
Iron	2.74	mg/L	0.030	106	70	130			
Sample ID: R08070005-002D	Sample Matrix Spike Duplicate			Run: SUB-C103914			07/09/08 04:09		
Boron	0.570	mg/L	0.10	103	70	130	1.8	20	
Iron	2.69	mg/L	0.030	104	70	130	1.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08070005

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						
Vanadium	ND	mg/L	0.003						
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			
Vanadium	1.0	mg/L	0.10	105	85	125			
Zinc	1.0	mg/L	0.010	104	85	125			
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			

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: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.7							Batch: C_R104056			
Sample ID: C08061234-001BMS2	Sample Matrix Spike			Run: SUB-C104056			07/10/08 17:08			
Nickel	2.03	mg/L	0.050	102	70	130				
Vanadium	2.05	mg/L	0.10	103	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		
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		
Vanadium	2.03	mg/L	0.10	102	70	130	0.8	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	
Sample ID: C08061228-001BMS2	Sample Matrix Spike			Run: SUB-C104056			07/10/08 19:20			
Aluminum	4.76	mg/L	0.10	94	70	130				
Barium	5.15	mg/L	0.10	101	70	130				
Boron	5.29	mg/L	0.10	101	70	130				
Chromium	4.98	mg/L	0.050	100	70	130				
Iron	5.11	mg/L	0.044	-51	70	130			S	
Manganese	5.12	mg/L	0.010	99	70	130				
Molybdenum	4.98	mg/L	0.10	100	70	130				
Nickel	4.92	mg/L	0.050	98	70	130				
Vanadium	5.09	mg/L	0.10	102	70	130				
Zinc	5.04	mg/L	0.010	101	70	130				
Calcium	665	mg/L	1.0	99	70	130				
Magnesium	361	mg/L	1.0	100	70	130				
Potassium	260	mg/L	1.0	91	70	130				
Silica	15.7	mg/L	0.10	26	70	130			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: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R104056		
Sample ID: C08061228-001BMS2	Sample Matrix Spike		Run: SUB-C104056			07/10/08 19:20			
Sodium	335	mg/L	2.7	98	70	130			
Sample ID: C08061228-001BMSD2	Sample Matrix Spike Duplicate		Run: SUB-C104056			07/10/08 19:24			
Aluminum	4.90	mg/L	0.10	97	70	130	2.7	20	
Barium	5.14	mg/L	0.10	101	70	130	0.1	20	
Boron	5.36	mg/L	0.10	102	70	130	1.2	20	
Chromium	5.02	mg/L	0.050	100	70	130	0.8	20	
Iron	5.22	mg/L	0.044	-49	70	130	2.2	20	S
Manganese	5.22	mg/L	0.010	101	70	130	1.9	20	
Molybdenum	5.01	mg/L	0.10	100	70	130	0.6	20	
Nickel	4.99	mg/L	0.050	100	70	130	1.5	20	
Vanadium	5.12	mg/L	0.10	102	70	130	0.5	20	
Zinc	5.01	mg/L	0.010	100	70	130	0.6	20	
Calcium	668	mg/L	1.0	100	70	130	0.4	20	
Magnesium	364	mg/L	1.0	101	70	130	1.0	20	
Potassium	261	mg/L	1.0	92	70	130	0.6	20	
Silica	15.9	mg/L	0.10	31	70	130	1.4	20	S
Sodium	341	mg/L	2.7	100	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: 08/21/08
Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19044		
Sample ID: MB-19044	Method Blank		Run: SUB-C103886			07/08/08 11:07			
Antimony	0.0005	mg/L	0.0002						
Arsenic	0.002	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Chromium	0.002	mg/L	5E-05						
Copper	ND	mg/L	0.0001						
Lead	0.003	mg/L							
Manganese	0.0001	mg/L	3E-05						
Molybdenum	ND	mg/L	7E-05						
Nickel	ND	mg/L	6E-05						
Selenium	0.0002	mg/L	0.0002						
Silver	6E-05	mg/L	5E-05						
Strontium	ND	mg/L	8E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Zinc	0.03	mg/L	0.0003						
Sample ID: LCS3-19044	Laboratory Control Sample		Run: SUB-C103886			07/08/08 11:14			
Antimony	0.514	mg/L	0.050	103	85	115			
Arsenic	0.469	mg/L	0.0010	94	85	115			
Barium	0.495	mg/L	0.10	99	85	115			
Beryllium	0.229	mg/L	0.010	91	85	115			
Cadmium	0.235	mg/L	0.010	94	85	115			
Chromium	0.490	mg/L	0.050	97	85	115			
Copper	0.469	mg/L	0.010	94	85	115			
Lead	0.509	mg/L	0.050	101	85	115			
Manganese	2.53	mg/L	0.010	101	85	115			
Molybdenum	0.482	mg/L	0.10	96	85	115			
Nickel	0.473	mg/L	0.050	95	85	115			
Selenium	0.446	mg/L	0.0020	89	85	115			
Strontium	0.488	mg/L	0.10	98	85	115			
Thallium	0.485	mg/L	0.10	97	85	115			
Uranium	0.526	mg/L	0.00032	105	85	115			
Zinc	0.499	mg/L	0.010	95	85	115			
Sample ID: R08070005-002D	Sample Matrix Spike		Run: SUB-C103886			07/08/08 12:49			
Antimony	0.543	mg/L	0.050	109	70	130			
Arsenic	0.532	mg/L	0.0010	106	70	130			
Barium	0.566	mg/L	0.10	110	70	130			
Beryllium	0.227	mg/L	0.010	91	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: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19044		
Sample ID: R08070005-002D	Sample Matrix Spike			Run: SUB-C103886			07/08/08 12:49		
Cadmium	0.262	mg/L	0.010	105	70	130			
Chromium	0.513	mg/L	0.050	101	70	130			
Copper	0.508	mg/L	0.010	102	70	130			
Lead	0.528	mg/L	0.050	105	70	130			
Manganese	2.65	mg/L	0.010	105	70	130			
Molybdenum	0.522	mg/L	0.10	104	70	130			
Nickel	0.512	mg/L	0.050	102	70	130			
Selenium	0.507	mg/L	0.0020	101	70	130			
Silver	0.0468	mg/L	0.010	94	70	130			
Strontium	1.72	mg/L	0.10	118	70	130			
Thallium	0.517	mg/L	0.10	103	70	130			
Uranium	0.537	mg/L	0.00032	107	70	130			
Zinc	0.497	mg/L	0.010	99	70	130			
Sample ID: R08070005-002D	Sample Matrix Spike Duplicate			Run: SUB-C103886			07/08/08 12:56		
Antimony	0.523	mg/L	0.050	105	70	130	3.7	20	
Arsenic	0.502	mg/L	0.0010	100	70	130	5.9	20	
Barium	0.536	mg/L	0.10	104	70	130	5.6	20	
Beryllium	0.221	mg/L	0.010	88	70	130	3.1	20	
Cadmium	0.250	mg/L	0.010	100	70	130	4.9	20	
Chromium	0.491	mg/L	0.050	97	70	130	4.5	20	
Copper	0.492	mg/L	0.010	98	70	130	3.3	20	
Lead	0.505	mg/L	0.050	101	70	130	4.3	20	
Manganese	2.56	mg/L	0.010	102	70	130	3.3	20	
Molybdenum	0.506	mg/L	0.10	101	70	130	3.2	20	
Nickel	0.490	mg/L	0.050	98	70	130	4.3	20	
Selenium	0.484	mg/L	0.0020	96	70	130	4.8	20	
Silver	0.0463	mg/L	0.010	93	70	130	1.1	20	
Strontium	1.63	mg/L	0.10	99	70	130	5.5	20	
Thallium	0.501	mg/L	0.10	100	70	130	3.3	20	
Uranium	0.524	mg/L	0.00032	105	70	130	2.3	20	
Zinc	0.476	mg/L	0.010	95	70	130	4.3	20	
Sample ID: R08070005-002D	Sample Matrix Spike			Run: SUB-C104617			07/21/08 15:12		
Antimony	0.553	mg/L	0.050	110	70	130			
Arsenic	0.521	mg/L	0.0010	104	70	130			
Barium	0.525	mg/L	0.10	102	70	130			
Beryllium	0.264	mg/L	0.010	106	70	130			
Cadmium	0.251	mg/L	0.010	100	70	130			
Chromium	0.493	mg/L	0.050	98	70	130			
Copper	0.493	mg/L	0.010	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: 08/21/08
Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19044		
Sample ID: R08070005-002D	Sample Matrix Spike			Run: SUB-C104617			07/21/08 15:12		
Lead	0.528	mg/L	0.050	106	70	130			
Manganese	2.48	mg/L	0.010	99	70	130			
Molybdenum	0.539	mg/L	0.10	108	70	130			
Nickel	0.492	mg/L	0.050	98	70	130			
Selenium	0.504	mg/L	0.0010	101	70	130			
Silver	0.0476	mg/L	0.010	95	70	130			
Strontium	1.68	mg/L	0.10	112	70	130			
Thallium	0.521	mg/L	0.10	104	70	130			
Uranium	0.570	mg/L	0.00030	114	70	130			
Zinc	0.491	mg/L	0.010	98	70	130			
Sample ID: R08070005-002D	Sample Matrix Spike Duplicate			Run: SUB-C104617			07/21/08 15:18		
Antimony	0.562	mg/L	0.050	112	70	130	1.7	20	
Arsenic	0.511	mg/L	0.0010	101	70	130	2.0	20	
Barium	0.528	mg/L	0.10	103	70	130	0.7	20	
Beryllium	0.262	mg/L	0.010	105	70	130	0.7	20	
Cadmium	0.253	mg/L	0.010	101	70	130	1.1	20	
Chromium	0.491	mg/L	0.050	98	70	130	0.4	20	
Copper	0.476	mg/L	0.010	95	70	130	3.5	20	
Lead	0.520	mg/L	0.050	104	70	130	1.4	20	
Manganese	2.48	mg/L	0.010	99	70	130	0.0	20	
Molybdenum	0.548	mg/L	0.10	109	70	130	1.6	20	
Nickel	0.477	mg/L	0.050	95	70	130	3.0	20	
Selenium	0.485	mg/L	0.0010	97	70	130	3.7	20	
Silver	0.0474	mg/L	0.010	95	70	130	0.6	20	
Strontium	1.59	mg/L	0.10	94	70	130	5.3	20	
Thallium	0.532	mg/L	0.10	106	70	130	2.1	20	
Uranium	0.591	mg/L	0.00030	118	70	130	3.6	20	
Zinc	0.482	mg/L	0.010	96	70	130	1.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Analytical Run: SUB-C104609		
Sample ID: CCB	Continuing Calibration Blank								07/22/08 00:24
Thorium 232	2.00E-05	mg/L	0.0010						
Sample ID: CCV	Continuing Calibration Verification Standard								07/22/08 00:30
Thorium 232	0.0589	mg/L	0.0010	98	90	110			
Method: E200.8							Batch: C_R104609		
Sample ID: LRB	Method Blank								07/21/08 16:56
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	8E-05	mg/L	1E-05						
Silver	9E-06	mg/L	7E-06						
Uranium	ND	mg/L	2E-06						
Sample ID: LFB	Laboratory Fortified Blank								07/21/08 17:02
Arsenic	0.0503	mg/L	0.0010	101	85	115			
Cadmium	0.0510	mg/L	0.0010	102	85	115			
Copper	0.0506	mg/L	0.0010	101	85	115			
Lead	0.0494	mg/L	0.0010	99	85	115			
Mercury	0.00500	mg/L	0.0010	98	85	115			
Silver	0.0196	mg/L	0.0010	98	85	115			
Uranium	0.0483	mg/L	0.00030	97	85	115			
Sample ID: C08070162-002CMS4	Post Digestion Spike								07/22/08 02:40
Arsenic	0.0518	mg/L	0.0010	100	70	130			
Cadmium	0.0487	mg/L	0.010	97	70	130			
Copper	0.0501	mg/L	0.010	97	70	130			
Lead	0.0489	mg/L	0.050	98	70	130			
Mercury	0.00503	mg/L	0.0010	101	70	130			
Silver	0.0142	mg/L	0.010	71	70	130			
Thorium 232	0.0484	mg/L	0.0010	97	70	130			
Uranium	0.0571	mg/L	0.00030	98	70	130			
Sample ID: C08070162-002CMS4	Post Digestion Spike Duplicate								07/22/08 02:47
Arsenic	0.0561	mg/L	0.0010	108	70	130	8.1	20	
Cadmium	0.0527	mg/L	0.010	105	70	130	7.9	20	
Copper	0.0550	mg/L	0.010	107	70	130	9.3	20	
Lead	0.0532	mg/L	0.050	106	70	130	8.4	20	
Mercury	0.00548	mg/L	0.0010	110	70	130	8.6	20	
Silver	0.0143	mg/L	0.010	72	70	130	0.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104609		
Sample ID: C08070162-002CMSD4	Post Digestion Spike Duplicate				Run: SUB-C104609			07/22/08 02:47	
Thorium 232	0.0529	mg/L	0.0010	106	70	130	8.8	20	
Uranium	0.0613	mg/L	0.00030	106	70	130	7.0	20	
Method: E245.1							Batch: B_33449		
Sample ID: MB-33449	Method Blank				Run: SUB-B113878			07/11/08 08:53	
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33449	Laboratory Fortified Blank				Run: SUB-B113878			07/11/08 08:55	
Mercury	0.0019	mg/L	0.0010	94	85	115			
Sample ID: B08070392-001HMS	Sample Matrix Spike				Run: SUB-B113878			07/11/08 09:00	
Mercury	0.0020	mg/L	0.0010	99	70	130			
Sample ID: B08070392-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-B113878			07/11/08 09:02	
Mercury	0.0019	mg/L	0.0010	97	70	130	2.1	30	
Sample ID: B08070443-001DMS	Sample Matrix Spike				Run: SUB-B113878			07/11/08 09:23	
Mercury	0.0019	mg/L	0.0010	94	70	130			
Sample ID: B08070443-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-B113878			07/11/08 09:26	
Mercury	0.0018	mg/L	0.0010	92	70	130	2.7	30	
Method: E245.1							Analytical Run: SUB-B113878		
Sample ID: QCS	Initial Calibration Verification Standard							07/11/08 07:20	
Mercury	0.0020	mg/L	0.0010	98	90	110			

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35797		
Sample ID: LFB0807011754-3	Laboratory Fortified Blank			Run: DIONEX_080701A			07/01/08 16:34		
Chloride	4.69	mg/L	0.50	94	90	110			
Fluoride	1.85	mg/L	0.10	93	90	110			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.43	mg/L	0.10	97	90	110			
Sulfate	13.8	mg/L	1.0	92	90	110			
Sample ID: LFB0807011754-4	Laboratory Fortified Blank			Run: DIONEX_080701A			07/01/08 16:51		
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	1.88	mg/L	0.10	94	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.45	mg/L	0.10	98	90	110			
Sulfate	13.9	mg/L	1.0	93	90	110			
Sample ID: R08060507-001AMS	Sample Matrix Spike			Run: DIONEX_080701A			07/01/08 20:41		
Chloride	15.6	mg/L	0.50	84	80	120			
Fluoride	2.21	mg/L	0.10	93	80	120			
Nitrogen, Nitrate as N	2.54	mg/L	0.10	93	80	120			
Nitrogen, Nitrite as N	2.52	mg/L	0.10	101	80	120			
Sulfate	62.8	mg/L	1.0	71	80	120			S
Sample ID: R08060507-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080701A			07/01/08 20:57		
Chloride	15.3	mg/L	0.50	77	80	120	2.2	10	S
Fluoride	2.09	mg/L	0.10	87	80	120	5.6	10	
Nitrogen, Nitrate as N	2.37	mg/L	0.10	86	80	120	6.9	10	
Nitrogen, Nitrite as N	2.35	mg/L	0.10	94	80	120	7.0	10	
Sulfate	62.2	mg/L	1.0	67	80	120	0.8	10	S
Sample ID: R08060417-007AMS	Sample Matrix Spike			Run: DIONEX_080701A			07/01/08 23:58		
Chloride	54.2	mg/L	1.1	87	80	120			
Fluoride	18.6	mg/L	0.11	86	80	120			
Nitrogen, Nitrate as N	23.7	mg/L	0.25	90	80	120			
Nitrogen, Nitrite as N	24.7	mg/L	0.58	99	80	120			
Sulfate	608	mg/L	1.0	74	80	120			S
Sample ID: R08060417-007AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080701A			07/02/08 00:14		
Chloride	53.6	mg/L	1.1	86	80	120	1.1	10	
Fluoride	18.0	mg/L	0.11	83	80	120	2.8	10	
Nitrogen, Nitrate as N	23.0	mg/L	0.25	87	80	120	2.9	10	
Nitrogen, Nitrite as N	24.0	mg/L	0.58	96	80	120	2.8	10	
Sulfate	607	mg/L	1.0	73	80	120	0.2	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: 08/21/08
 Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
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: 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	
Method: E901.1							Batch: C_R104840		
Sample ID: LCS-R104840	Laboratory Control Sample				Run: SUB-C104840			07/17/08 13:12	
Americium 241	230000	pCi/L	20	75	70	130			
Cesium 137	460000	pCi/L	20	106	70	130			
Cobalt 60	320000	pCi/L	20	101	70	130			
Sample ID: MB-R104840	Method Blank				Run: SUB-C104840			07/17/08 13:12	
Gross Gamma	ND	pCi/L							U
Sample ID: C08070215-007HDUP	Sample Duplicate				Run: SUB-C104840			07/17/08 13:12	
Gross Gamma	1000	pCi/L	20				8.7	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: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_19031		
Sample ID: C08070134-001EMS Radium 226	Sample Matrix Spike 81	pCi/L		104	70	130			07/23/08 21:14
Sample ID: C08070134-001EMSD Radium 226	Sample Matrix Spike Duplicate 79	pCi/L		102	70	130	2.3	24.5	07/23/08 21:14
Sample ID: MB-19031 Radium 226	Method Blank -0.6	pCi/L							07/23/08 22:55 U
Sample ID: LCS-19031 Radium 226	Laboratory Control Sample 15	pCi/L		97	70	130			07/23/08 22:55
Method: E903.0							Batch: C_RA226-2956		
Sample ID: C08070219-001AMS Radium 226	Sample Matrix Spike 17	pCi/L		97	70	130			08/06/08 21:37
Sample ID: C08070219-001AMSD Radium 226	Sample Matrix Spike Duplicate 20	pCi/L		118	70	130	18	25.2	08/06/08 21:37
Sample ID: MB-RA226-2956 Radium 226	Method Blank -0.1	pCi/L							08/06/08 23:12 U
Sample ID: LCS-RA226-2956 Radium 226	Laboratory Control Sample 8.2	pCi/L		105	70	130			08/06/08 23:12
Method: E907.0							Batch: C_19031		
Sample ID: C08070118-001AMS Thorium 230	Sample Matrix Spike 103	pCi/Filter	0.20	112	70	130			07/21/08 15:28
Sample ID: C08070118-001AMSD Thorium 230	Sample Matrix Spike Duplicate 90.4	pCi/Filter	0.20	99	70	130	13	30	07/21/08 15:30
Sample ID: LCS-19031 Thorium 230	Laboratory Control Sample 51.6	pCi/L	0.20	104	70	130			07/21/08 15:33
Sample ID: MB-19031 Thorium 230	Method Blank 0.3	pCi/L							07/18/08 12:39 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: 08/21/08
 Work Order: R08070005

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_R105519		
Sample ID: MB-R105519	Method Blank				Run: SUB-C105519			07/17/08 09:30	
Lead 210	-4	pCi/L							U
Sample ID: LCS-R105519	Laboratory Control Sample				Run: SUB-C105519			07/17/08 09:30	
Lead 210	98	pCi/L		86	70	130			
Sample ID: C08070206-002AMS	Sample Matrix Spike				Run: SUB-C105519			07/17/08 09:30	
Lead 210	1020	pCi/Filter		81	70	130			
Sample ID: C08070206-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C105519			07/17/08 09:30	
Lead 210	1350	pCi/Filter		110	70	130	28	30	
Method: E909.0M							Batch: C_R105847		
Sample ID: C08070547-001HMS	Sample Matrix Spike				Run: SUB-C105847			07/24/08 08:45	
Lead 210	560	pCi/L		91	70	130			
Sample ID: C08070547-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C105847			07/24/08 08:45	
Lead 210	590	pCi/L		96	70	130	5.4	30	
Sample ID: MB-R105847	Method Blank				Run: SUB-C105847			07/24/08 08:45	
Lead 210	5	pCi/L							U
Sample ID: LCS-R105847	Laboratory Control Sample				Run: SUB-C105847			07/24/08 08:45	
Lead 210	130	pCi/L		106	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: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R104910		
Sample ID: C08070215-001HMS	Sample Matrix Spike				Run: SUB-C104910				07/14/08 17:45
Polonium 210	57	pCi/L	1.0	66	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 response is considered to be matrix related. The batch is approved.									
Sample ID: C08070215-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C104910				07/14/08 17:45
Polonium 210	59	pCi/L	1.0	68	70	130	3.6	30	S
- Spike response is outside of the acceptance range for this analysis. Since the RPD for the MS MSD pair is acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: LCS-R104910	Laboratory Control Sample				Run: SUB-C104910				07/14/08 17:45
Polonium 210	69	pCi/L	1.0	159	70	130			S
- LCS response is outside of the acceptance range for this analysis.									
Sample ID: MB-R104910	Method Blank				Run: SUB-C104910				07/14/08 17:45
Polonium 210	ND	pCi/L							U
Method: RMO-3008							Batch: C_R106180		
Sample ID: C08070215-001IMS	Sample Matrix Spike				Run: SUB-C106180				08/18/08 17:00
Polonium 210	19	pCi/L	1.0	94	70	130			
Sample ID: C08070215-001IMSD	Sample Matrix Spike Duplicate				Run: SUB-C106180				08/18/08 17:00
Polonium 210	23	pCi/L	1.0	114	70	130	19	30	
Sample ID: LCS-19031	Laboratory Control Sample				Run: SUB-C106180				08/18/08 17:00
Polonium 210	95	pCi/L	1.0	117	70	130			
Sample ID: MB-19031	Method Blank				Run: SUB-C106180				08/18/08 17:00
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



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC		Project Name, PWS, Permit, Etc. PeveTel Dewey Burdock		Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: RESPEC		Contact Name: Copy Foreman Respec	Phone/Fax: 605-394-6900	Email:	Sampler: (Please Print) Eric Keurte
Invoice Address:		Invoice Contact & Phone:		Purchase Order:	Quote/Bottle Order:

Special Report/Formats - EI 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 Request

SEE ATTACHED
Normal Turnaround (TAT)

R U S H

Contact EI prior to RUSH sample submittal for charges and scheduling - See Instruction Page

Comments:
All GW

Receipt Temp
3.1 °C

On Ice: Yes No

Cooler Dye:
Custody Seal: Y N
Ink: Y N
Signature: Y N
Match: Y N

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Received by (print):			Received by (print):		
				Signature:	Date/Time:	Signature:	Date/Time:	Signature:	Date/Time:
1 Dewey GW 16	6/30/08	13:45	W	<i>[Signature]</i>	6/30/08 20:50	<i>[Signature]</i>	6/1/08 09:45	<i>[Signature]</i>	6/1/08 09:45
2 Dewey GW 16 88	6/30/08	18:39	W	<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	
3									
4									
5									
6									
7									
8									
9									
10									

LABORATORY USE ONLY

802
7080 7005-01

Signature: *[Signature]*

Date/Time: 6/30/08 20:50

Signature: *[Signature]*

Date/Time: 6/1/08 09:45

Signature: *[Signature]*

Date/Time: 6/1/08 09:45

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.



ANALYTICAL SUMMARY REPORT

September 09, 2008

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

Workorder No.: R08070035 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 7 samples from RESPEC Inc on 7/2/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08070035-001	DewBurd GW693	07/01/08 19:39	07/02/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08070035-002	DewBurd GW691	07/01/08 19:17	07/02/08	Aqueous	Same As Above
R08070035-003	DewBurd GW49	07/01/08 18:26	07/02/08	Aqueous	Same As Above
R08070035-004	DewBurd GW687	07/01/08 18:02	07/02/08	Aqueous	Same As Above
R08070035-005	DewBurd GW681	07/01/08 16:54	07/02/08	Aqueous	Same As Above
R08070035-006	DewBurd GW689	07/01/08 16:17	07/02/08	Aqueous	Same As Above
R08070035-007	DewBurd GW685	07/01/08 15:48	07/02/08	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.



Date: 09-Sep-08

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08070035

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 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.
- 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: C08070215

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: C08070215



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-001
 Client Sample ID: DewBurd GW693

Report Date: 09/09/08
 Collection Date: 07/01/08 19:39
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	68	mg/L		5			1	A2320 B	07/03/08 12:50/mb
Carbonate as CO3	7	mg/L		5			1	A2320 B	07/03/08 12:50/mb
Bicarbonate as HCO3	68	mg/L		5			1	A2320 B	07/03/08 12:50/mb
Calcium	73.7	mg/L		0.5			2	E200.7	07/21/08 13:55/eli-c
Chloride	38	mg/L	D	2			20	E300.0	07/03/08 00:04/jmh
Fluoride	0.6	mg/L		0.1			1	E300.0	07/03/08 00:21/jmh
Magnesium	35.2	mg/L		0.5			2	E200.7	07/21/08 13:55/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1			1	A4500-NH3 G	07/12/08 17:23/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	07/03/08 00:21/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	07/03/08 00:21/jmh
Potassium	8.6	mg/L		0.5			2	E200.7	07/21/08 13:55/eli-c
Silica	5.0	mg/L		0.5			2	E200.7	07/21/08 13:55/eli-c
Sodium	380	mg/L	D	2			2	E200.7	07/21/08 13:55/eli-c
Sulfate	886	mg/L		1			20	E300.0	07/03/08 00:04/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1650	umhos/cm		5.0			1	A2510 B	07/02/08 11:45/tb
Oxidation-Reduction Potential	210	mV					1	A2580 B	07/07/08 14:00/jmh
pH	9.03	s.u.		0.01			1	A4500-H B	07/02/08 10:53/tb
Sodium Adsorption Ratio (SAR)	9.1	unitless		0.10			1	Calculation	09/05/08 14:46/ADM
Solids, Total Dissolved TDS @ 180 C	1400	mg/L		5			1	A2540 C	07/02/08 16:38/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/21/08 13:55/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	07/23/08 16:55/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/21/08 13:55/eli-c
Boron	1.0	mg/L		0.1			2	E200.7	07/21/08 13:55/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/23/08 16:55/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/21/08 13:55/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/23/08 16:55/eli-c
Iron	0.06	mg/L		0.03			2	E200.7	07/21/08 13:55/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/23/08 16:55/eli-c
Manganese	ND	mg/L		0.01			2	E200.7	07/21/08 13:55/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/23/08 16:55/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/21/08 13:55/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/21/08 13:55/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/28/08 15:32/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/25/08 14:18/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070035-001
 Client Sample ID: DewBurd GW693

Report Date: 09/09/08
 Collection Date: 07/01/08 19:39
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/23/08 16:55/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 07/23/08 16:55/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/21/08 13:55/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 07/21/08 13:55/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 07/24/08 14:03/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/28/08 13:19/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	2.8	pCi/L	U			1	E900.0 08/02/08 23:41/eli-c
Gross Alpha precision (±)	3.8	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Alpha MDC	6.0	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta	2.7	pCi/L	U			1	E900.0 08/02/08 23:41/eli-c
Gross Beta precision (±)	4.0	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta MDC	6.6	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Lead 210	1.3	pCi/L	U			1	E909.0M 07/24/08 08:45/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M 07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M 07/24/08 08:45/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008 07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1	RMO-3008 07/14/08 17:45/eli-c
Radium 226	0.6	pCi/L				1	E903.0 08/06/08 18:41/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0 08/06/08 18:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 08/03/08 18:40/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0 08/03/08 18:40/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1 07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1 07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-1.3	pCi/L	U			1	E909.0M 07/22/08 11:00/eli-c
Lead 210 precision (±)	5.9	pCi/L				1	E909.0M 07/22/08 11:00/eli-c
Lead 210 MDC	9.9	pCi/L				1	E909.0M 07/22/08 11:00/eli-c
Polonium 210	0.0	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	0.2	pCi/L	U			1	E903.0 07/23/08 12:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070035-001
 Client Sample ID: DewBurd GW693

Report Date: 09/09/08
 Collection Date: 07/01/08 19:39
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/29/08 09:57/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/29/08 09:57/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	424	pCi/L		100			1	D5072-92	07/03/08 16:32/eli-c
Radon 222 precision (±)	49.7	pCi/L					1	D5072-92	07/03/08 16:32/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/08/08 11:28/eli-c
Arsenic	ND	mg/L		0.001			10	E200.8	07/08/08 11:28/eli-c
Barium	ND	mg/L		0.1			10	E200.8	07/08/08 11:28/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/08/08 11:28/eli-c
Boron	1.1	mg/L		0.1			2	E200.7	07/09/08 03:12/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/08/08 11:28/eli-c
Chromium	ND	mg/L		0.05			10	E200.8	07/08/08 11:28/eli-c
Copper	ND	mg/L		0.01			10	E200.8	07/08/08 11:28/eli-c
Iron	1.44	mg/L		0.03			2	E200.7	07/09/08 03:12/eli-c
Lead	ND	mg/L	D	0.003			10	E200.8	07/08/08 11:28/eli-c
Manganese	0.01	mg/L		0.01			10	E200.8	07/08/08 11:28/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/11/08 09:21/eli-b
Mercury	ND	mg/L		0.0001			1	E245.1	07/09/08 12:33/eli-b
Molybdenum	ND	mg/L		0.1			10	E200.8	07/08/08 11:28/eli-c
Nickel	ND	mg/L		0.05			10	E200.8	07/08/08 11:28/eli-c
Selenium	0.005	mg/L	D	0.002			10	E200.8	07/08/08 11:28/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/08/08 11:28/eli-c
Strontium	2.1	mg/L		0.1			10	E200.8	07/08/08 11:28/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/08/08 11:28/eli-c
Uranium	ND	mg/L		0.0003			10	E200.8	07/08/08 11:28/eli-c
Zinc	ND	mg/L		0.01			10	E200.8	07/08/08 11:28/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.47	%					1	A1030 E	09/05/08 00:00/jmh
Anions	20.9	meq/L					1	A1030 E	09/05/08 00:00/jmh
Cations	23.3	meq/L					1	A1030 E	09/05/08 00:00/jmh
Solids, Total Dissolved Calculated	1480	mg/L					1	A1030 E	09/05/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.980						1	A1030 E	09/05/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-002
 Client Sample ID: DewBurd GW691

Report Date: 09/09/08
 Collection Date: 07/01/08 19:17
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	1160	mg/L		5		1	A2320 B	07/03/08 12:59/mb
Carbonate as CO3	19	mg/L		5		1	A2320 B	07/03/08 12:59/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	07/03/08 12:59/mb
Calcium	251	mg/L		0.5		2	E200.7	07/21/08 14:07/eli-c
Chloride	113	mg/L	D	5		50	E300.0	07/03/08 00:37/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	07/03/08 00:54/jmh
Magnesium	ND	mg/L		0.5		2	E200.7	07/21/08 14:07/eli-c
Nitrogen, Ammonia as N	1.2	mg/L		0.1		2	A4500-NH3 G	07/12/08 18:08/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/03/08 00:54/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/03/08 00:54/jmh
Potassium	16.7	mg/L		0.5		2	E200.7	07/21/08 14:07/eli-c
Silica	0.8	mg/L		0.5		2	E200.7	07/21/08 14:07/eli-c
Sodium	373	mg/L	D	2		2	E200.7	07/21/08 14:07/eli-c
Sulfate	159	mg/L	D	3		50	E300.0	07/03/08 00:37/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5360	umhos/cm		5.0		1	A2510 B	07/02/08 11:46/tb
Oxidation-Reduction Potential	24	mV				1	A2580 B	07/07/08 14:00/jmh
pH	12.4	s.u.		0.01		1	A4500-H B	07/02/08 10:54/tb
Sodium Adsorption Ratio (SAR)	6.5	unitless		0.10		1	Calculation	09/05/08 14:46/ADM
Solids, Total Dissolved TDS @ 180 C	1500	mg/L		5		1	A2540 C	07/02/08 16:38/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/21/08 14:07/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/23/08 17:02/eli-c
Barium	0.5	mg/L		0.1		2	E200.7	07/21/08 14:07/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	07/21/08 14:07/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/25/08 14:45/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/21/08 14:07/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/23/08 17:02/eli-c
Iron	ND	mg/L		0.03		2	E200.7	07/21/08 14:07/eli-c
Lead	0.011	mg/L		0.001		1	E200.8	07/23/08 17:02/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	07/21/08 14:07/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/23/08 17:02/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/21/08 14:07/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/21/08 14:07/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/28/08 15:39/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/25/08 14:45/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070035-002
 Client Sample ID: DewBurd GW691

Report Date: 09/09/08
 Collection Date: 07/01/08 19:17
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	07/23/08 17:02/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	07/23/08 17:02/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	07/21/08 14:07/eli-c
Zinc	0.01	mg/L		0.01			2	E200.7	07/21/08 14:07/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	07/24/08 14:07/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	07/28/08 13:26/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	2.9	pCi/L	U				1	E900.0	08/02/08 23:41/eli-c
Gross Alpha precision (±)	6.1	pCi/L					1	E900.0	08/02/08 23:41/eli-c
Gross Alpha MDC	9.9	pCi/L					1	E900.0	08/02/08 23:41/eli-c
Gross Beta	15.4	pCi/L					1	E900.0	08/02/08 23:41/eli-c
Gross Beta precision (±)	5.7	pCi/L					1	E900.0	08/02/08 23:41/eli-c
Gross Beta MDC	9.0	pCi/L					1	E900.0	08/02/08 23:41/eli-c
Lead 210	0.5	pCi/L	U				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	4.7	pCi/L					1	E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L					1	E909.0M	07/24/08 08:45/eli-c
Polonium 210	-0.1	pCi/L	U	1.0			1	RMO-3008	07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.40	pCi/L					1	RMO-3008	07/14/08 17:45/eli-c
Radium 226	1.2	pCi/L					1	E903.0	08/06/08 18:41/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	08/06/08 18:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	08/03/08 18:40/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	08/03/08 18:40/eli-c
Gross Gamma	0.0	pCi/L	U	20			1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L					1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	2.2	pCi/L	U				1	E909.0M	07/22/08 11:00/eli-c
Lead 210 precision (±)	5.9	pCi/L					1	E909.0M	07/22/08 11:00/eli-c
Lead 210 MDC	9.9	pCi/L					1	E909.0M	07/22/08 11:00/eli-c
Polonium 210	-0.1	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	0.2	pCi/L	U				1	E903.0	07/23/08 12:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070035-002
 Client Sample ID: DewBurd GW691

Report Date: 09/09/08
 Collection Date: 07/01/08 19:17
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/29/08 09:57/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/29/08 09:57/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	119	pCi/L		100			1	D5072-92	07/03/08 16:32/eli-c
Radon 222 precision (±)	45.7	pCi/L					1	D5072-92	07/03/08 16:32/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/08/08 11:34/eli-c
Arsenic	ND	mg/L	D	0.002			10	E200.8	07/08/08 11:34/eli-c
Barium	0.5	mg/L		0.1			10	E200.8	07/08/08 11:34/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/08/08 11:34/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/09/08 03:20/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/08/08 11:34/eli-c
Chromium	ND	mg/L		0.05			10	E200.8	07/08/08 11:34/eli-c
Copper	ND	mg/L		0.01			10	E200.8	07/08/08 11:34/eli-c
Iron	0.10	mg/L		0.03			2	E200.7	07/09/08 03:20/eli-c
Lead	0.035	mg/L		0.001			10	E200.8	07/08/08 11:34/eli-c
Manganese	ND	mg/L		0.01			10	E200.8	07/08/08 11:34/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/11/08 09:28/eli-b
Mercury	ND	mg/L		0.0001			1	E245.1	07/09/08 12:36/eli-b
Molybdenum	ND	mg/L		0.1			10	E200.8	07/08/08 11:34/eli-c
Nickel	ND	mg/L		0.05			10	E200.8	07/08/08 11:34/eli-c
Selenium	0.003	mg/L	D	0.002			10	E200.8	07/08/08 11:34/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/08/08 11:34/eli-c
Strontium	5.3	mg/L		0.1			10	E200.8	07/08/08 11:34/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/08/08 11:34/eli-c
Uranium	ND	mg/L		0.0003			10	E200.8	07/08/08 11:34/eli-c
Zinc	ND	mg/L		0.01			10	E200.8	07/08/08 11:34/eli-c
DATA QUALITY									
A/C Balance (± 5)	-0.590	%					1	A1030 E	09/05/08 00:00/jmh
Anions	29.6	meq/L					1	A1030 E	09/05/08 00:00/jmh
Cations	29.3	meq/L					1	A1030 E	09/05/08 00:00/jmh
Solids, Total Dissolved Calculated	1610	mg/L					1	A1030 E	09/05/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950						1	A1030 E	09/05/08 00:00/jmh

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 6 of 21
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-003
 Client Sample ID: DewBurd GW49

Report Date: 09/09/08
 Collection Date: 07/01/08 18:26
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	168	mg/L		5			1	A2320 B	07/03/08 13:03/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	07/03/08 13:03/mb
Bicarbonate as HCO3	205	mg/L		5			1	A2320 B	07/03/08 13:03/mb
Calcium	62.2	mg/L		0.5			2	E200.7	07/21/08 14:15/eli-c
Chloride	12	mg/L		1			1	E300.0	07/03/08 01:59/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	07/03/08 01:59/jmh
Magnesium	25.2	mg/L		0.5			2	E200.7	07/21/08 14:15/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	07/12/08 17:24/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	07/03/08 01:59/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	07/03/08 01:59/jmh
Potassium	10.4	mg/L		0.5			2	E200.7	07/21/08 14:15/eli-c
Silica	4.6	mg/L		0.5			2	E200.7	07/21/08 14:15/eli-c
Sodium	226	mg/L	D	2			2	E200.7	07/21/08 14:15/eli-c
Sulfate	465	mg/L		1			20	E300.0	07/03/08 01:10/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1200	umhos/cm		5.0			1	A2510 B	07/02/08 11:47/tb
Oxidation-Reduction Potential	160	mV					1	A2580 B	07/07/08 14:00/jmh
pH	7.91	s.u.		0.01			1	A4500-H B	07/02/08 10:57/tb
Sodium Adsorption Ratio (SAR)	6.1	unitless		0.10			1	Calculation	09/05/08 14:46/ADM
Solids, Total Dissolved TDS @ 180 C	930	mg/L		5			1	A2540 C	07/02/08 16:38/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/21/08 14:15/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	07/23/08 17:09/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/21/08 14:15/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/21/08 14:15/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/23/08 17:09/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/21/08 14:15/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/23/08 17:09/eli-c
Iron	ND	mg/L		0.03			2	E200.7	07/21/08 14:15/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/23/08 17:09/eli-c
Manganese	0.14	mg/L		0.01			2	E200.7	07/21/08 14:15/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/23/08 17:09/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/21/08 14:15/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/21/08 14:15/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/28/08 15:41/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/25/08 14:52/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070035-003
 Client Sample ID: DewBurd GW49

Report Date: 09/09/08
 Collection Date: 07/01/08 18:26
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	07/23/08 17:09/eli-c
Uranium	0.0011	mg/L		0.0003		1	E200.8	07/23/08 17:09/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/21/08 14:15/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/21/08 14:15/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/24/08 14:11/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/28/08 13:28/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	8.2	pCi/L				1	E900.0	08/02/08 23:41/eli-c
Gross Alpha precision (±)	3.1	pCi/L				1	E900.0	08/02/08 23:41/eli-c
Gross Alpha MDC	4.1	pCi/L				1	E900.0	08/02/08 23:41/eli-c
Gross Beta	7.1	pCi/L				1	E900.0	08/02/08 23:41/eli-c
Gross Beta precision (±)	2.8	pCi/L				1	E900.0	08/02/08 23:41/eli-c
Gross Beta MDC	4.4	pCi/L				1	E900.0	08/02/08 23:41/eli-c
Lead 210	1.6	pCi/L	U			1	E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1	RMO-3008	07/14/08 17:45/eli-c
Radium 226	2.2	pCi/L				1	E903.0	08/06/08 18:41/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/06/08 18:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/03/08 18:40/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	08/03/08 18:40/eli-c
Gross Gamma	920	pCi/L		20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	140	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	1.3	pCi/L	U			1	E909.0M	07/22/08 11:00/eli-c
Lead 210 precision (±)	5.9	pCi/L				1	E909.0M	07/22/08 11:00/eli-c
Lead 210 MDC	9.9	pCi/L				1	E909.0M	07/22/08 11:00/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.26	pCi/L				1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0	07/23/08 12:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070035-003
 Client Sample ID: DewBurd GW49

Report Date: 09/09/08
 Collection Date: 07/01/08 18:26
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Thorium 230	0.2	pCi/L	U	0.2			1	E907.0	07/29/08 09:57/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/29/08 09:57/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	477	pCi/L		100			1	D5072-92	07/03/08 16:32/eli-c
Radon 222 precision (±)	50.8	pCi/L					1	D5072-92	07/03/08 16:32/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/08/08 11:41/eli-c
Arsenic	ND	mg/L	D	0.002			10	E200.8	07/08/08 11:41/eli-c
Barium	ND	mg/L		0.1			10	E200.8	07/08/08 11:41/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/08/08 11:41/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/09/08 03:24/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/08/08 11:41/eli-c
Chromium	ND	mg/L		0.05			10	E200.8	07/08/08 11:41/eli-c
Copper	ND	mg/L		0.01			10	E200.8	07/08/08 11:41/eli-c
Iron	0.14	mg/L		0.03			2	E200.7	07/09/08 03:24/eli-c
Lead	ND	mg/L	D	0.003			10	E200.8	07/08/08 11:41/eli-c
Manganese	0.12	mg/L		0.01			10	E200.8	07/08/08 11:41/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/11/08 09:30/eli-b
Mercury	ND	mg/L		0.0001			1	E245.1	07/09/08 12:38/eli-b
Molybdenum	ND	mg/L		0.1			10	E200.8	07/08/08 11:41/eli-c
Nickel	ND	mg/L		0.05			10	E200.8	07/08/08 11:41/eli-c
Selenium	0.003	mg/L	D	0.002			10	E200.8	07/08/08 11:41/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/08/08 11:41/eli-c
Strontium	1.1	mg/L		0.1			10	E200.8	07/08/08 11:41/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/08/08 11:41/eli-c
Uranium	0.0011	mg/L		0.0003			10	E200.8	07/08/08 11:41/eli-c
Zinc	ND	mg/L		0.01			10	E200.8	07/08/08 11:41/eli-c
DATA QUALITY									
A/C Balance (± 5)	6.51	%					1	A1030 E	09/05/08 00:00/jmh
Anions	13.4	meq/L					1	A1030 E	09/05/08 00:00/jmh
Cations	15.3	meq/L					1	A1030 E	09/05/08 00:00/jmh
Solids, Total Dissolved Calculated	915	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 RL - Analyte reporting limit.
 Definitions: 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.
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-004
 Client Sample ID: DewBurd GW687

Report Date: 09/09/08
 Collection Date: 07/01/08 18:02
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	184	mg/L		5		1	A2320 B	07/03/08 13:07/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/03/08 13:07/mb
Bicarbonate as HCO3	224	mg/L		5		1	A2320 B	07/03/08 13:07/mb
Calcium	76.7	mg/L		0.5		2	E200.7	07/21/08 14:19/eli-c
Chloride	11	mg/L		1		1	E300.0	07/03/08 03:05/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	07/03/08 03:05/jmh
Magnesium	29.9	mg/L		0.5		2	E200.7	07/21/08 14:19/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	07/12/08 17:25/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/03/08 03:05/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/03/08 03:05/jmh
Potassium	10.7	mg/L		0.5		2	E200.7	07/21/08 14:19/eli-c
Silica	4.4	mg/L		0.5		2	E200.7	07/21/08 14:19/eli-c
Sodium	208	mg/L	D	2		2	E200.7	07/21/08 14:19/eli-c
Sulfate	458	mg/L		1		20	E300.0	07/03/08 02:16/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1230	umhos/cm		5.0		1	A2510 B	07/02/08 11:48/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	07/07/08 14:00/jmh
pH	7.77	s.u.		0.01		1	A4500-H B	07/02/08 10:59/tb
Sodium Adsorption Ratio (SAR)	5.1	unitless		0.10		1	Calculation	09/05/08 14:46/ADM
Solids, Total Dissolved TDS @ 180 C	940	mg/L		5		1	A2540 C	07/02/08 16:39/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/21/08 14:19/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	07/23/08 17:15/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/21/08 14:19/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/21/08 14:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/23/08 17:15/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/21/08 14:19/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/23/08 17:15/eli-c
Iron	ND	mg/L		0.03		2	E200.7	07/21/08 14:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/23/08 17:15/eli-c
Manganese	0.11	mg/L		0.01		2	E200.7	07/21/08 14:19/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/23/08 17:15/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/21/08 14:19/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/21/08 14:19/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/28/08 15:43/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/25/08 20:28/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070035-004
 Client Sample ID: DewBurd GW687

Report Date: 09/09/08
 Collection Date: 07/01/08 18:02
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	07/23/08 17:15/eli-c
Uranium	0.0040	mg/L		0.0003			1	E200.8	07/23/08 17:15/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	07/21/08 14:19/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/21/08 14:19/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	07/24/08 14:32/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	07/28/08 13:30/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	114	pCi/L					1	E900.0	08/02/08 23:41/eli-c
Gross Alpha precision (±)	7.5	pCi/L					1	E900.0	08/02/08 23:41/eli-c
Gross Alpha MDC	4.1	pCi/L					1	E900.0	08/02/08 23:41/eli-c
Gross Beta	33.5	pCi/L					1	E900.0	08/02/08 23:41/eli-c
Gross Beta precision (±)	2.6	pCi/L					1	E900.0	08/02/08 23:41/eli-c
Gross Beta MDC	3.4	pCi/L					1	E900.0	08/02/08 23:41/eli-c
Lead 210	3.9	pCi/L	U				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	4.8	pCi/L					1	E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L					1	E909.0M	07/24/08 08:45/eli-c
Polonium 210	0.6	pCi/L	U	1.0			1	RMO-3008	07/14/08 17:45/eli-c
Polonium 210 precision (±)	1.2	pCi/L					1	RMO-3008	07/14/08 17:45/eli-c
Radium 226	25.7	pCi/L					1	E903.0	08/06/08 18:41/eli-c
Radium 226 precision (±)	1	pCi/L					1	E903.0	08/06/08 18:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	08/03/08 18:40/eli-c
Thorium 230 precision (±)	0.04	pCi/L					1	E907.0	08/03/08 18:40/eli-c
Gross Gamma	1100	pCi/L		20			1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	170	pCi/L					1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	-4.0	pCi/L	U				1	E909.0M	07/22/08 11:00/eli-c
Lead 210 precision (±)	5.8	pCi/L					1	E909.0M	07/22/08 11:00/eli-c
Lead 210 MDC	9.9	pCi/L					1	E909.0M	07/22/08 11:00/eli-c
Polonium 210	0.0	pCi/L	U	1.0			1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.48	pCi/L					1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	0.3	pCi/L					1	E903.0	07/23/08 12:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070035-004
 Client Sample ID: DewBurd GW687

Report Date: 09/09/08
 Collection Date: 07/01/08 18:02
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/29/08 09:57/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/29/08 09:57/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	3380	pCi/L		100			1	D5072-92	07/03/08 16:32/eli-c
Radon 222 precision (±)	79.9	pCi/L					1	D5072-92	07/03/08 16:32/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/08/08 11:48/eli-c
Arsenic	ND	mg/L	D	0.002			10	E200.8	07/08/08 11:48/eli-c
Barium	ND	mg/L		0.1			10	E200.8	07/08/08 11:48/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/08/08 11:48/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/09/08 03:28/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/08/08 11:48/eli-c
Chromium	ND	mg/L		0.05			10	E200.8	07/08/08 11:48/eli-c
Copper	ND	mg/L		0.01			10	E200.8	07/08/08 11:48/eli-c
Iron	0.11	mg/L		0.03			2	E200.7	07/09/08 03:28/eli-c
Lead	ND	mg/L	D	0.003			10	E200.8	07/08/08 11:48/eli-c
Manganese	0.10	mg/L		0.01			10	E200.8	07/08/08 11:48/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/11/08 09:33/eli-b
Mercury	ND	mg/L		0.0001			1	E245.1	07/09/08 12:40/eli-b
Molybdenum	ND	mg/L		0.1			10	E200.8	07/08/08 11:48/eli-c
Nickel	ND	mg/L		0.05			10	E200.8	07/08/08 11:48/eli-c
Selenium	ND	mg/L	D	0.002			10	E200.8	07/08/08 11:48/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/08/08 11:48/eli-c
Strontium	1.4	mg/L		0.1			10	E200.8	07/08/08 11:48/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/08/08 11:48/eli-c
Uranium	0.0042	mg/L		0.0003			10	E200.8	07/08/08 11:48/eli-c
Zinc	ND	mg/L		0.01			10	E200.8	07/08/08 11:48/eli-c
DATA QUALITY									
A/C Balance (± 5)	7.13	%					1	A1030 E	09/05/08 00:00/jmh
Anions	13.6	meq/L					1	A1030 E	09/05/08 00:00/jmh
Cations	15.6	meq/L					1	A1030 E	09/05/08 00:00/jmh
Solids, Total Dissolved Calculated	918	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. MCL - Maximum contaminant level. Page 12 of 21
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-005
 Client Sample ID: DewBurd GW681

Report Date: 09/09/08
 Collection Date: 07/01/08 16:54
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	174	mg/L		5			1	A2320 B	07/03/08 13:14/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	07/03/08 13:14/mb
Bicarbonate as HCO3	212	mg/L		5			1	A2320 B	07/03/08 13:14/mb
Calcium	67.4	mg/L		0.5			2	E200.7	07/21/08 14:23/eli-c
Chloride	16	mg/L		1			1	E300.0	07/03/08 03:38/jmh
Fluoride	0.5	mg/L		0.1			1	E300.0	07/03/08 03:38/jmh
Magnesium	25.8	mg/L		0.5			2	E200.7	07/21/08 14:23/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	07/12/08 17:27/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	07/03/08 03:38/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	07/03/08 03:38/jmh
Potassium	9.7	mg/L		0.5			2	E200.7	07/21/08 14:23/eli-c
Silica	4.4	mg/L		0.5			2	E200.7	07/21/08 14:23/eli-c
Sodium	218	mg/L	D	2			2	E200.7	07/21/08 14:23/eli-c
Sulfate	457	mg/L		1			20	E300.0	07/03/08 03:21/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1230	umhos/cm		5.0			1	A2510 B	07/02/08 11:49/tb
Oxidation-Reduction Potential	220	mV					1	A2580 B	07/07/08 14:00/jmh
pH	7.85	s.u.		0.01			1	A4500-H B	07/02/08 11:00/tb
Sodium Adsorption Ratio (SAR)	5.7	unitless		0.10			1	Calculation	09/05/08 14:46/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5			1	A2540 C	07/02/08 16:39/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/21/08 14:23/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	07/23/08 17:22/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/21/08 14:23/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/21/08 14:23/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/23/08 17:22/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/21/08 14:23/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/23/08 17:22/eli-c
Iron	ND	mg/L		0.03			2	E200.7	07/21/08 14:23/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/23/08 17:22/eli-c
Manganese	0.09	mg/L		0.01			2	E200.7	07/21/08 14:23/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/23/08 17:22/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/21/08 14:23/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/21/08 14:23/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/28/08 15:45/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/25/08 21:02/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070035-005
 Client Sample ID: DewBurd GW681

Report Date: 09/09/08
 Collection Date: 07/01/08 16:54
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	07/23/08 17:22/eli-c
Uranium	0.0094	mg/L		0.0003		1	E200.8	07/23/08 17:22/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/21/08 14:23/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/21/08 14:23/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/24/08 14:36/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/28/08 13:32/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1180	pCi/L				1	E900.0	08/02/08 23:41/eli-c
Gross Alpha precision (±)	23.0	pCi/L				1	E900.0	08/02/08 23:41/eli-c
Gross Alpha MDC	4.1	pCi/L				1	E900.0	08/02/08 23:41/eli-c
Gross Beta	326	pCi/L				1	E900.0	08/02/08 23:41/eli-c
Gross Beta precision (±)	6.3	pCi/L				1	E900.0	08/02/08 23:41/eli-c
Gross Beta MDC	4.4	pCi/L				1	E900.0	08/02/08 23:41/eli-c
Lead 210	30.0	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	5.1	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Polonium 210	0.7	pCi/L	U	1.0		1	RMO-3008	07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1	RMO-3008	07/14/08 17:45/eli-c
Radium 226	357	pCi/L				1	E903.0	08/06/08 18:41/eli-c
Radium 226 precision (±)	3.9	pCi/L				1	E903.0	08/06/08 18:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/03/08 18:40/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	08/03/08 18:40/eli-c
Gross Gamma	1500	pCi/L		20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	200	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	5.3	pCi/L	U			1	E909.0M	07/22/08 11:00/eli-c
Lead 210 precision (±)	6.0	pCi/L				1	E909.0M	07/22/08 11:00/eli-c
Lead 210 MDC	9.9	pCi/L				1	E909.0M	07/22/08 11:00/eli-c
Polonium 210	1.5	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	1.3	pCi/L				1	E903.0	07/23/08 12:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070035-005
 Client Sample ID: DewBurd GW681

Report Date: 09/09/08
 Collection Date: 07/01/08 16:54
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Thorium 230	-0.1	pCi/L	U	0.2			1	E907.0	07/29/08 09:58/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/29/08 09:58/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	281000	pCi/L		100			1	D5072-92	07/03/08 16:32/eli-c
Radon 222 precision (±)	609	pCi/L					1	D5072-92	07/03/08 16:32/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/08/08 12:15/eli-c
Arsenic	ND	mg/L	D	0.002			10	E200.8	07/08/08 12:15/eli-c
Barium	ND	mg/L		0.1			10	E200.8	07/08/08 12:15/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	07/21/08 14:04/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/09/08 03:32/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/08/08 12:15/eli-c
Chromium	ND	mg/L		0.05			10	E200.8	07/08/08 12:15/eli-c
Copper	ND	mg/L		0.01			10	E200.8	07/08/08 12:15/eli-c
Iron	0.04	mg/L		0.03			2	E200.7	07/09/08 03:32/eli-c
Lead	0.006	mg/L	D	0.004			10	E200.8	07/08/08 12:15/eli-c
Manganese	0.08	mg/L		0.01			10	E200.8	07/08/08 12:15/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/11/08 09:35/eli-b
Mercury	ND	mg/L		0.0001			1	E245.1	07/09/08 12:43/eli-b
Molybdenum	ND	mg/L		0.1			10	E200.8	07/08/08 12:15/eli-c
Nickel	ND	mg/L		0.05			10	E200.8	07/08/08 12:15/eli-c
Selenium	ND	mg/L	D	0.002			10	E200.8	07/08/08 12:15/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/08/08 12:15/eli-c
Strontium	1.2	mg/L		0.1			10	E200.8	07/08/08 12:15/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/08/08 12:15/eli-c
Uranium	0.0092	mg/L		0.0003			10	E200.8	07/08/08 12:15/eli-c
Zinc	0.09	mg/L	D	0.03			10	E200.8	07/08/08 12:15/eli-c
DATA QUALITY									
A/C Balance (± 5)	6.24	%					1	A1030 E	09/05/08 00:00/jmh
Anions	13.4	meq/L					1	A1030 E	09/05/08 00:00/jmh
Cations	15.2	meq/L					1	A1030 E	09/05/08 00:00/jmh
Solids, Total Dissolved Calculated	910	mg/L					1	A1030 E	09/05/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.01						1	A1030 E	09/05/08 00:00/jmh

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 15 of 21
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-006
 Client Sample ID: DewBurd GW689

Report Date: 09/09/08
 Collection Date: 07/01/08 16:17
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	150	mg/L		5			1	A2320 B	07/03/08 13:16/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	07/03/08 13:16/mb
Bicarbonate as HCO3	183	mg/L		5			1	A2320 B	07/03/08 13:16/mb
Calcium	49.6	mg/L		0.5			2	E200.7	07/21/08 14:39/eli-c
Chloride	5	mg/L		1			1	E300.0	07/03/08 04:11/jmh
Fluoride	0.5	mg/L		0.1			1	E300.0	07/03/08 04:11/jmh
Magnesium	16.9	mg/L		0.5			2	E200.7	07/21/08 14:39/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	07/12/08 17:30/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	07/03/08 04:11/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	07/03/08 04:11/jmh
Potassium	7.8	mg/L		0.5			2	E200.7	07/21/08 14:39/eli-c
Silica	5.0	mg/L		0.5			2	E200.7	07/21/08 14:39/eli-c
Sodium	179	mg/L	D	2			2	E200.7	07/21/08 14:39/eli-c
Sulfate	354	mg/L		1			20	E300.0	07/03/08 03:54/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1010	umhos/cm		5.0			1	A2510 B	07/02/08 11:51/tb
Oxidation-Reduction Potential	220	mV					1	A2580 B	07/07/08 14:00/jmh
pH	7.84	s.u.		0.01			1	A4500-H B	07/02/08 11:01/tb
Sodium Adsorption Ratio (SAR)	5.6	unitless		0.10			1	Calculation	09/05/08 14:46/ADM
Solids, Total Dissolved TDS @ 180 C	710	mg/L		5			1	A2540 C	07/02/08 16:39/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/21/08 14:39/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	07/25/08 21:09/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/21/08 14:39/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/21/08 14:39/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/25/08 21:09/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/21/08 14:39/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/25/08 21:09/eli-c
Iron	ND	mg/L		0.03			2	E200.7	07/21/08 14:39/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/23/08 17:29/eli-c
Manganese	0.04	mg/L		0.01			2	E200.7	07/21/08 14:39/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/23/08 17:29/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/21/08 14:39/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/21/08 14:39/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/28/08 15:47/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/25/08 21:09/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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-006
 Client Sample ID: DewBurd GW689

Report Date: 09/09/08
 Collection Date: 07/01/08 16:17
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/23/08 17:29/eli-c
Uranium	0.0032	mg/L		0.0003		1	E200.8 07/23/08 17:29/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/21/08 14:39/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 07/21/08 14:39/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 07/24/08 14:40/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/28/08 13:34/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	33.4	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Alpha precision (±)	3.9	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Alpha MDC	3.2	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta	14.7	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta precision (±)	2.1	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta MDC	3.0	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Lead 210	1.1	pCi/L	U			1	E909.0M 07/24/08 08:45/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M 07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M 07/24/08 08:45/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008 07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1	RMO-3008 07/14/08 17:45/eli-c
Radium 226	7.7	pCi/L				1	E903.0 08/06/08 18:41/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0 08/06/08 18:41/eli-c
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0 08/04/08 00:44/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 08/04/08 00:44/eli-c
Gross Gamma	930	pCi/L		20		1	E901.1 07/17/08 13:12/eli-c
Gross Gamma precision (±)	160	pCi/L				1	E901.1 07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-3.9	pCi/L	U			1	E909.0M 07/22/08 11:00/eli-c
Lead 210 precision (±)	5.8	pCi/L				1	E909.0M 07/22/08 11:00/eli-c
Lead 210 MDC	9.9	pCi/L				1	E909.0M 07/22/08 11:00/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.45	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	0.9	pCi/L				1	E903.0 07/23/08 12:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070035-006
Client Sample ID: DewBurd GW689

Report Date: 09/09/08
Collection Date: 07/01/08 16:17
Date Received: 07/02/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	07/23/08 12:43/eli-c
Radium 226 MDC	0.2	pCi/L				1 E903.0	07/23/08 12:43/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1 E907.0	07/29/08 09:58/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	07/29/08 09:58/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	1820	pCi/L		100		1 D5072-92	07/03/08 16:32/eli-c
Radon 222 precision (±)	66.7	pCi/L				1 D5072-92	07/03/08 16:32/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		10 E200.8	07/08/08 12:22/eli-c
Arsenic	ND	mg/L	D	0.002		10 E200.8	07/08/08 12:22/eli-c
Barium	ND	mg/L		0.1		10 E200.8	07/08/08 12:22/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	07/21/08 14:11/eli-c
Boron	ND	mg/L		0.1		2 E200.7	07/09/08 03:36/eli-c
Cadmium	ND	mg/L		0.005		10 E200.8	07/08/08 12:22/eli-c
Chromium	ND	mg/L		0.05		10 E200.8	07/08/08 12:22/eli-c
Copper	ND	mg/L		0.01		10 E200.8	07/08/08 12:22/eli-c
Iron	2.23	mg/L		0.03		2 E200.7	07/09/08 03:36/eli-c
Lead	ND	mg/L		0.001		10 E200.8	07/08/08 12:22/eli-c
Manganese	0.09	mg/L		0.01		10 E200.8	07/08/08 12:22/eli-c
Mercury	ND	mg/L		0.0002		1 E245.1	07/11/08 09:37/eli-b
Mercury	ND	mg/L		0.0001		1 E245.1	07/09/08 12:45/eli-b
Molybdenum	ND	mg/L		0.1		10 E200.8	07/08/08 12:22/eli-c
Nickel	ND	mg/L		0.05		10 E200.8	07/08/08 12:22/eli-c
Selenium	0.003	mg/L	D	0.002		10 E200.8	07/08/08 12:22/eli-c
Silver	ND	mg/L		0.005		10 E200.8	07/08/08 12:22/eli-c
Strontium	0.9	mg/L		0.1		10 E200.8	07/08/08 12:22/eli-c
Thallium	ND	mg/L		0.001		10 E200.8	07/08/08 12:22/eli-c
Uranium	0.0073	mg/L		0.0003		10 E200.8	07/08/08 12:22/eli-c
Zinc	ND	mg/L		0.01		10 E200.8	07/08/08 12:22/eli-c
DATA QUALITY							
A/C Balance (± 5)	5.87	%				1 A1030 E	09/05/08 00:00/jmh
Anions	10.6	meq/L				1 A1030 E	09/05/08 00:00/jmh
Cations	11.9	meq/L				1 A1030 E	09/05/08 00:00/jmh
Solids, Total Dissolved Calculated	717	mg/L				1 A1030 E	09/05/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.990					1 A1030 E	09/05/08 00:00/jmh

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 18 of 21
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-007
 Client Sample ID: DewBurd GW685

Report Date: 09/09/08
 Collection Date: 07/01/08 15:48
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	162	mg/L		5		1	A2320 B	07/03/08 13:18/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/03/08 13:18/mb
Bicarbonate as HCO3	197	mg/L		5		1	A2320 B	07/03/08 13:18/mb
Calcium	71.9	mg/L		0.5		2	E200.7	07/21/08 14:43/eli-c
Chloride	11	mg/L		1		1	E300.0	07/03/08 05:16/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	07/03/08 05:16/jmh
Magnesium	26.2	mg/L		0.5		2	E200.7	07/21/08 14:43/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	07/12/08 17:31/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/03/08 05:16/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/03/08 05:16/jmh
Potassium	9.9	mg/L		0.5		2	E200.7	07/21/08 14:43/eli-c
Silica	4.5	mg/L		0.5		2	E200.7	07/21/08 14:43/eli-c
Sodium	206	mg/L	D	2		2	E200.7	07/21/08 14:43/eli-c
Sulfate	460	mg/L		1		20	E300.0	07/03/08 04:27/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1150	umhos/cm		5.0		1	A2510 B	07/02/08 11:53/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	07/07/08 14:00/jmh
pH	7.91	s.u.		0.01		1	A4500-H B	07/02/08 11:02/tb
Sodium Adsorption Ratio (SAR)	5.3	unitless		0.10		1	Calculation	09/05/08 14:46/ADM
Solids, Total Dissolved TDS @ 180 C	930	mg/L		5		1	A2540 C	07/02/08 16:40/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/21/08 14:43/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	07/23/08 17:35/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/21/08 14:43/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/21/08 14:43/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/25/08 21:16/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/21/08 14:43/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/23/08 17:35/eli-c
Iron	ND	mg/L		0.03		2	E200.7	07/21/08 14:43/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/23/08 17:35/eli-c
Manganese	0.09	mg/L		0.01		2	E200.7	07/21/08 14:43/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/23/08 17:35/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/21/08 14:43/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/21/08 14:43/eli-c
Selenium	0.003	mg/L		0.001		1	A3114 B	07/28/08 15:53/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/25/08 21:16/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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-007
 Client Sample ID: DewBurd GW685

Report Date: 09/09/08
 Collection Date: 07/01/08 15:48
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/23/08 17:35/eli-c
Uranium	0.0057	mg/L		0.0003		1	E200.8 07/23/08 17:35/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/21/08 14:43/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 07/21/08 14:43/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 07/24/08 14:44/eli-c
METALS - SPECIATED							
Selenium-IV	0.003	mg/L		0.001		1	A3114 B 07/28/08 13:40/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	23.8	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Alpha precision (±)	4.0	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Alpha MDC	4.1	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta	12.0	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta precision (±)	2.9	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta MDC	4.4	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Lead 210	5.9	pCi/L	U			1	E909.0M 07/24/08 08:45/eli-c
Lead 210 precision (±)	4.8	pCi/L				1	E909.0M 07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M 07/24/08 08:45/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008 07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1	RMO-3008 07/14/08 17:45/eli-c
Radium 226	2.3	pCi/L				1	E903.0 08/06/08 18:41/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0 08/06/08 18:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 08/04/08 00:44/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 08/04/08 00:44/eli-c
Gross Gamma	940	pCi/L		20		1	E901.1 07/17/08 13:12/eli-c
Gross Gamma precision (±)	160	pCi/L				1	E901.1 07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-1.1	pCi/L	U			1	E909.0M 07/22/08 11:00/eli-c
Lead 210 precision (±)	5.9	pCi/L				1	E909.0M 07/22/08 11:00/eli-c
Lead 210 MDC	9.9	pCi/L				1	E909.0M 07/22/08 11:00/eli-c
Polonium 210	0.5	pCi/L	U	1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.48	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	0.3	pCi/L				1	E903.0 07/23/08 12:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070035-007
 Client Sample ID: DewBurd GW685

Report Date: 09/09/08
 Collection Date: 07/01/08 15:48
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	07/29/08 09:57/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/29/08 09:57/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	9460	pCi/L		100			1	D5072-92	07/03/08 16:32/eli-c
Radon 222 precision (±)	121	pCi/L					1	D5072-92	07/03/08 16:32/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/08/08 12:29/eli-c
Arsenic	0.005	mg/L	D	0.002			10	E200.8	07/08/08 12:29/eli-c
Barium	ND	mg/L		0.1			10	E200.8	07/08/08 12:29/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	07/21/08 14:17/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/09/08 03:41/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/08/08 12:29/eli-c
Chromium	ND	mg/L		0.05			10	E200.8	07/08/08 12:29/eli-c
Copper	ND	mg/L		0.01			10	E200.8	07/08/08 12:29/eli-c
Iron	ND	mg/L		0.03			2	E200.7	07/09/08 03:41/eli-c
Lead	ND	mg/L	D	0.003			10	E200.8	07/08/08 12:29/eli-c
Manganese	0.08	mg/L		0.01			10	E200.8	07/08/08 12:29/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/11/08 09:40/eli-b
Mercury	ND	mg/L		0.0001			1	E245.1	07/11/08 10:01/eli-b
Molybdenum	ND	mg/L		0.1			10	E200.8	07/08/08 12:29/eli-c
Nickel	ND	mg/L		0.05			10	E200.8	07/08/08 12:29/eli-c
Selenium	0.005	mg/L	D	0.002			10	E200.8	07/08/08 12:29/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/08/08 12:29/eli-c
Strontium	1.2	mg/L		0.1			10	E200.8	07/08/08 12:29/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/08/08 12:29/eli-c
Uranium	0.0056	mg/L		0.0003			10	E200.8	07/08/08 12:29/eli-c
Zinc	ND	mg/L		0.01			10	E200.8	07/08/08 12:29/eli-c
DATA QUALITY									
A/C Balance (± 5)	6.47	%					1	A1030 E	09/05/08 00:00/jmh
Anions	13.2	meq/L					1	A1030 E	09/05/08 00:00/jmh
Cations	15.0	meq/L					1	A1030 E	09/05/08 00:00/jmh
Solids, Total Dissolved Calculated	896	mg/L					1	A1030 E	09/05/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.04						1	A1030 E	09/05/08 00:00/jmh

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 21 of 21
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/09/08
 Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080703A-ALK-SEL-W		
Sample ID: LCS1_080703A Alkalinity, Total as CaCO3	Laboratory Control Sample 948	mg/L	5.0	95	90	110			
									Run: PH_COND1-R_080703A 07/03/08 11:24
Sample ID: MBLK1_080703A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						
									Run: PH_COND1-R_080703A 07/03/08 11:25
Sample ID: R08070005-002AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 250	mg/L	5.0	108	80	120			
									Run: PH_COND1-R_080703A 07/03/08 12:37
Sample ID: R08070005-002AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 242	mg/L	5.0	100	80	120	3.3	10	
									Run: PH_COND1-R_080703A 07/03/08 12:41
Sample ID: R08070071-001AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 216	mg/L	5.0	113	80	120			
									Run: PH_COND1-R_080703A 07/03/08 13:25
Sample ID: R08070071-001AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 194	mg/L	5.0	92	80	120	11	10	R
									Run: PH_COND1-R_080703A 07/03/08 14:07
Method: A2510 B							Batch: 080702_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080702 Conductivity @ 25 C	Laboratory Control Sample 1400	umhos/cm	5.0	99	90	110			
									Run: PH_COND2-R_080702B 07/02/08 11:33
Sample ID: LCS1-1_080702 Conductivity @ 25 C	Laboratory Control Sample 148	umhos/cm	5.0	99	90	110			
									Run: PH_COND2-R_080702B 07/02/08 11:33
Sample ID: LCS2-1_080702 Conductivity @ 25 C	Laboratory Control Sample 4960	umhos/cm	5.0	99	90	110			
									Run: PH_COND2-R_080702B 07/02/08 11:34
Sample ID: MBLK-1_080702 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						
									Run: PH_COND2-R_080702B 07/02/08 11:37
Sample ID: R08070035-006ADUP Conductivity @ 25 C	Sample Duplicate 1000	umhos/cm	5.0				1.0	10	
									Run: PH_COND2-R_080702B 07/02/08 11:52
Sample ID: R08070035-007ADUP Conductivity @ 25 C	Sample Duplicate 1140	umhos/cm	5.0				0.9	10	
									Run: PH_COND2-R_080702B 07/02/08 11:54

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: 09/09/08
 Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 080702A-SLDS-TDS-W		
Sample ID: LCS1_080702A	Laboratory Control Sample					Run: BAL-4-R_080702A			07/02/08 16:34
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	108	90	110			
Sample ID: MBLK1_080702A	Method Blank					Run: BAL-4-R_080702A			07/02/08 16:35
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R08060475-001BMS	Sample Matrix Spike					Run: BAL-4-R_080702A			07/02/08 16:36
Solids, Total Dissolved TDS @ 180 C	560	mg/L	5.0	90	80	120			
Sample ID: R08060475-001BMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080702A			07/02/08 16:36
Solids, Total Dissolved TDS @ 180 C	570	mg/L	5.0	95	80	120	1.8	10	
Sample ID: R08070035-006AMS	Sample Matrix Spike					Run: BAL-4-R_080702A			07/02/08 16:40
Solids, Total Dissolved TDS @ 180 C	920	mg/L	5.0	108	80	120			
Sample ID: R08070035-006AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080702A			07/02/08 16:40
Solids, Total Dissolved TDS @ 180 C	920	mg/L	5.0	107	80	120	0.2	10	
Method: A2580 B							Batch: 080707-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample					Run: PH_COND1-R_080707A			07/07/08 14:00
Oxidation-Reduction Potential	480	mV		100	95	105			
Sample ID: R08070005-001F	Sample Duplicate					Run: PH_COND1-R_080707A			07/07/08 14:00
Oxidation-Reduction Potential	230	mV					1.5	10	
Method: A3114 B							Batch: C_SE3114-080728B		
Sample ID: MBLK	Method Blank					Run: SUB-C104944			07/28/08 13:15
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample					Run: SUB-C104944			07/28/08 13:17
Selenium-IV	0.054	mg/L	0.0010	108	90	110			
Sample ID: R08070035-001E	Sample Matrix Spike					Run: SUB-C104944			07/28/08 13:21
Selenium-IV	0.053	mg/L	0.0010	106	85	115			
Sample ID: R08070035-001E	Sample Matrix Spike Duplicate					Run: SUB-C104944			07/28/08 13:23
Selenium-IV	0.053	mg/L	0.0010	105	85	115	0.5	10	
Sample ID: C08070737-004EMS	Sample Matrix Spike					Run: SUB-C104944			07/28/08 13:51
Selenium-IV	0.050	mg/L	0.0010	99	85	115			
Sample ID: C08070737-004EMSD	Sample Matrix Spike Duplicate					Run: SUB-C104944			07/28/08 13:53
Selenium-IV	0.051	mg/L	0.0010	101	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: 09/09/08
 Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080728C		
Sample ID: MBLK	Method Blank				Run: SUB-C104959			07/28/08 15:28	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104959			07/28/08 15:30	
Selenium	0.055	mg/L	0.0010	109	90	110			
Sample ID: R08070035-001E	Sample Matrix Spike				Run: SUB-C104959			07/28/08 15:34	
Selenium	0.052	mg/L	0.0010	104	85	115			
Sample ID: R08070035-001E	Sample Matrix Spike Duplicate				Run: SUB-C104959			07/28/08 15:37	
Selenium	0.050	mg/L	0.0010	100	85	115	3.4	10	
Sample ID: C08070737-004EMS	Sample Matrix Spike				Run: SUB-C104959			07/28/08 16:04	
Selenium	0.048	mg/L	0.0010	95	85	115			
Sample ID: C08070737-004EMSD	Sample Matrix Spike Duplicate				Run: SUB-C104959			07/28/08 16:06	
Selenium	0.048	mg/L	0.0010	97	85	115	1.8	10	
Method: A4500-H B							Batch: 080702_1_PH-W		
Sample ID: LCS_pH-1_080702	Laboratory Control Sample				Run: PH_COND2-R_080702A			07/02/08 10:45	
pH	6.90	s.u.	0.010	101	98.55	101.45			
Sample ID: R08070035-002ADUP	Sample Duplicate				Run: PH_COND2-R_080702A			07/02/08 10:55	
pH	12.3	s.u.	0.010				0.6	1.25	
Sample ID: R08070035-007ADUP	Sample Duplicate				Run: PH_COND2-R_080702A			07/02/08 11:04	
pH	7.93	s.u.	0.010				0.3	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: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-07-12_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_080712A			07/12/08 16:27
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	104	90	110			
						Run: TECHAA2-R_080712A			07/12/08 16:28
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27	mg/L	0.10	107	90	110			
						Run: TECHAA2-R_080712A			07/12/08 16:30
Sample ID: R08070028-003BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.17	mg/L	0.10	67	80	120			
						Run: TECHAA2-R_080712A			07/12/08 17:14 S
Sample ID: R08070028-003BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.20	mg/L	0.10	80	80	120	17		
						Run: TECHAA2-R_080712A			07/12/08 17:15 R
Sample ID: R08070035-005BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.33	mg/L	0.10	104	80	120			
						Run: TECHAA2-R_080712A			07/12/08 17:28
Sample ID: R08070035-005BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.34	mg/L	0.10	105	80	120	0.9		
						Run: TECHAA2-R_080712A			07/12/08 17:29 10
Sample ID: R08070071-001BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.22	mg/L	0.10	88	80	120			
						Run: TECHAA2-R_080712A			07/12/08 18:11
Sample ID: R08070071-001BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.23	mg/L	0.10	93	80	120	4.9		
						Run: TECHAA2-R_080712A			07/12/08 18:12 10
Method: D5072-92							Batch: C_R103780		
Sample ID: R08070035-007G Radon 222	Sample Duplicate 9480	pCi/L	100				0.2		
						Run: SUB-C103780			07/03/08 16:32 30
Sample ID: MB-R103780 Radon 222	Method Blank 20	pCi/L							
						Run: SUB-C103780			07/03/08 16:32
Sample ID: LCS-R103780 Radon 222	Laboratory Control Sample 303	pCi/L	100	94	70	130			
						Run: SUB-C103780			07/03/08 16:32

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: 09/09/08
 Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19044		
Sample ID: MB-19044	Method Blank					Run: SUB-C103914		07/09/08 03:04	
Boron	0.04	mg/L	0.01						
Iron	ND	mg/L	0.009						
Sample ID: LCS3-19044	Laboratory Control Sample					Run: SUB-C103914		07/09/08 03:08	
Boron	0.535	mg/L	0.10	99	85	115			
Iron	2.57	mg/L	0.030	103	85	115			
Sample ID: C08070216-002DMS3	Sample Matrix Spike					Run: SUB-C103914		07/09/08 04:05	
Boron	0.581	mg/L	0.10	105	70	130			
Iron	2.74	mg/L	0.030	106	70	130			
Sample ID: C08070216-002DMSD3	Sample Matrix Spike Duplicate					Run: SUB-C103914		07/09/08 04:09	
Boron	0.570	mg/L	0.10	103	70	130	1.8	20	
Iron	2.69	mg/L	0.030	104	70	130	1.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.7							Batch: C_R104583			
Sample ID: MB-080721A	Method Blank		Run: SUB-C104583			07/21/08 13:46				
Silica	0.05	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	ND	mg/L		0.003						
Zinc	ND	mg/L		0.002						
Sample ID: LFB-080721A	Laboratory Fortified Blank		Run: SUB-C104583			07/21/08 13:51				
Silica	0.48	mg/L	0.10	106	85	125				
Aluminum	0.96	mg/L	0.10	96	85	125				
Barium	1.0	mg/L	0.10	101	85	125				
Boron	1.00	mg/L	0.10	100	85	125				
Calcium	55	mg/L	0.50	110	85	125				
Chromium	1.0	mg/L	0.050	101	85	125				
Iron	1.1	mg/L	0.030	107	85	125				
Magnesium	54	mg/L	0.50	108	85	125				
Manganese	1.0	mg/L	0.010	102	85	125				
Molybdenum	1.00	mg/L	0.10	100	85	125				
Nickel	1.0	mg/L	0.050	100	85	125				
Potassium	48	mg/L	0.50	95	85	125				
Sodium	52	mg/L	0.77	103	85	125				
Vanadium	1.1	mg/L	0.10	108	85	125				
Zinc	1.0	mg/L	0.010	102	85	125				
Sample ID: R08070035-001C	Sample Matrix Spike		Run: SUB-C104583			07/21/08 13:59				
Aluminum	2.07	mg/L	0.10	103	70	130				
Barium	2.07	mg/L	0.10	103	70	130				
Boron	3.05	mg/L	0.10	100	70	130				
Chromium	2.18	mg/L	0.050	108	70	130				
Iron	2.70	mg/L	0.030	132	70	130			S	
Manganese	2.10	mg/L	0.010	104	70	130				
Molybdenum	2.07	mg/L	0.10	102	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: 09/09/08
 Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R104583		
Sample ID: R08070035-001C	Sample Matrix Spike			Run: SUB-C104583			07/21/08 13:59		
Nickel	2.09	mg/L	0.050	105	70	130			
Vanadium	2.26	mg/L	0.10	112	70	130			
Zinc	2.09	mg/L	0.010	104	70	130			
Calcium	183	mg/L	1.0	110	70	130			
Magnesium	146	mg/L	1.0	111	70	130			
Potassium	100	mg/L	1.0	92	70	130			
Silica	5.78	mg/L	0.10		70	130			A
Sodium	474	mg/L	1.5	94	70	130			
Sample ID: R08070035-001C	Sample Matrix Spike Duplicate			Run: SUB-C104583			07/21/08 14:03		
Aluminum	2.12	mg/L	0.10	106	70	130	2.4	20	
Barium	2.07	mg/L	0.10	103	70	130	0.2	20	
Boron	3.14	mg/L	0.10	105	70	130	2.8	20	
Chromium	2.16	mg/L	0.050	107	70	130	1.1	20	
Iron	2.64	mg/L	0.030	129	70	130	2.0	20	
Manganese	2.16	mg/L	0.010	107	70	130	2.8	20	
Molybdenum	2.09	mg/L	0.10	103	70	130	1.2	20	
Nickel	2.33	mg/L	0.050	116	70	130	11	20	
Vanadium	2.33	mg/L	0.10	115	70	130	3.1	20	
Zinc	2.13	mg/L	0.010	106	70	130	2.1	20	
Calcium	185	mg/L	1.0	111	70	130	0.9	20	
Magnesium	149	mg/L	1.0	114	70	130	1.9	20	
Potassium	101	mg/L	1.0	92	70	130	0.7	20	
Silica	5.74	mg/L	0.10		70	130	0.6	20	A
Sodium	469	mg/L	1.5	90	70	130	1.0	20	
Sample ID: C08070559-001BMS2	Sample Matrix Spike			Run: SUB-C104583			07/21/08 15:03		
Aluminum	19.2	mg/L	0.10	96	70	130			
Barium	20.2	mg/L	0.12	98	70	130			
Boron	232	mg/L	0.17		70	130			A
Chromium	19.5	mg/L	0.050	98	70	130			
Iron	21.2	mg/L	0.095	106	70	130			
Manganese	21.7	mg/L	0.010	98	70	130			
Molybdenum	19.4	mg/L	0.10	97	70	130			
Nickel	19.4	mg/L	0.086	97	70	130			
Vanadium	21.2	mg/L	0.10	106	70	130			
Zinc	19.7	mg/L	0.044	99	70	130			
Calcium	6230	mg/L	2.1		70	130			A
Magnesium	2070	mg/L	1.0	102	70	130			
Potassium	947	mg/L	1.0	91	70	130			
Silica	18.2	mg/L	0.41	92	70	130			

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R104583		
Sample ID: C08070559-001BMS2	Sample Matrix Spike			Run: SUB-C104583			07/21/08 15:03		
Sodium	1030	mg/L	15	97	70	130			
Sample ID: C08070559-001BMSD2	Sample Matrix Spike Duplicate			Run: SUB-C104583			07/21/08 15:08		
Aluminum	19.4	mg/L	0.10	97	70	130	1.1	20	
Barium	20.0	mg/L	0.12	97	70	130	0.8	20	
Boron	234	mg/L	0.17		70	130	0.8	20	A
Chromium	19.7	mg/L	0.050	98	70	130	0.6	20	
Iron	21.2	mg/L	0.095	106	70	130	0.1	20	
Manganese	21.7	mg/L	0.010	98	70	130	0.1	20	
Molybdenum	19.4	mg/L	0.10	97	70	130	0.4	20	
Nickel	19.6	mg/L	0.086	98	70	130	1.0	20	
Vanadium	21.3	mg/L	0.10	106	70	130	0.2	20	
Zinc	19.8	mg/L	0.044	99	70	130	0.3	20	
Calcium	6230	mg/L	2.1		70	130	0.1	20	A
Magnesium	2090	mg/L	1.0	104	70	130	1.0	20	
Potassium	939	mg/L	1.0	90	70	130	0.9	20	
Silica	18.1	mg/L	0.41	92	70	130	0.1	20	
Sodium	1020	mg/L	15	96	70	130	1.0	20	

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19044		
Sample ID: MB-19044	Method Blank		Run: SUB-C103886			07/08/08 11:07			
Antimony	0.0005	mg/L	0.0002						
Arsenic	0.002	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Chromium	0.002	mg/L	5E-05						
Copper	ND	mg/L	0.0001						
Lead	0.003	mg/L							
Manganese	0.0001	mg/L	3E-05						
Molybdenum	ND	mg/L	7E-05						
Nickel	ND	mg/L	6E-05						
Selenium	0.0002	mg/L	0.0002						
Silver	6E-05	mg/L	5E-05						
Strontium	ND	mg/L	8E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Zinc	0.03	mg/L	0.0003						
Sample ID: LCS3-19044	Laboratory Control Sample		Run: SUB-C103886			07/08/08 11:14			
Antimony	0.514	mg/L	0.050	103	85	115			
Arsenic	0.469	mg/L	0.0010	94	85	115			
Barium	0.495	mg/L	0.10	99	85	115			
Beryllium	0.229	mg/L	0.010	91	85	115			
Cadmium	0.235	mg/L	0.010	94	85	115			
Chromium	0.490	mg/L	0.050	97	85	115			
Copper	0.469	mg/L	0.010	94	85	115			
Lead	0.509	mg/L	0.050	101	85	115			
Manganese	2.53	mg/L	0.010	101	85	115			
Molybdenum	0.482	mg/L	0.10	96	85	115			
Nickel	0.473	mg/L	0.050	95	85	115			
Selenium	0.446	mg/L	0.0020	89	85	115			
Strontium	0.488	mg/L	0.10	98	85	115			
Thallium	0.485	mg/L	0.10	97	85	115			
Uranium	0.526	mg/L	0.00032	105	85	115			
Zinc	0.499	mg/L	0.010	95	85	115			
Sample ID: C08070216-002DMS3	Sample Matrix Spike		Run: SUB-C103886			07/08/08 12:49			
Antimony	0.543	mg/L	0.050	109	70	130			
Arsenic	0.532	mg/L	0.0010	106	70	130			
Barium	0.566	mg/L	0.10	110	70	130			
Beryllium	0.227	mg/L	0.010	91	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: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19044		
Sample ID: C08070216-002DMS3	Sample Matrix Spike			Run: SUB-C103886			07/08/08 12:49		
Cadmium	0.262	mg/L	0.010	105	70	130			
Chromium	0.513	mg/L	0.050	101	70	130			
Copper	0.508	mg/L	0.010	102	70	130			
Lead	0.528	mg/L	0.050	105	70	130			
Manganese	2.65	mg/L	0.010	105	70	130			
Molybdenum	0.522	mg/L	0.10	104	70	130			
Nickel	0.512	mg/L	0.050	102	70	130			
Selenium	0.507	mg/L	0.0020	101	70	130			
Silver	0.0468	mg/L	0.010	94	70	130			
Strontium	1.72	mg/L	0.10	118	70	130			
Thallium	0.517	mg/L	0.10	103	70	130			
Uranium	0.537	mg/L	0.00032	107	70	130			
Zinc	0.497	mg/L	0.010	99	70	130			
Sample ID: C08070216-002DMSD3	Sample Matrix Spike Duplicate			Run: SUB-C103886			07/08/08 12:56		
Antimony	0.523	mg/L	0.050	105	70	130	3.7	20	
Arsenic	0.502	mg/L	0.0010	100	70	130	5.9	20	
Barium	0.536	mg/L	0.10	104	70	130	5.6	20	
Beryllium	0.221	mg/L	0.010	88	70	130	3.1	20	
Cadmium	0.250	mg/L	0.010	100	70	130	4.9	20	
Chromium	0.491	mg/L	0.050	97	70	130	4.5	20	
Copper	0.492	mg/L	0.010	98	70	130	3.3	20	
Lead	0.505	mg/L	0.050	101	70	130	4.3	20	
Manganese	2.56	mg/L	0.010	102	70	130	3.3	20	
Molybdenum	0.506	mg/L	0.10	101	70	130	3.2	20	
Nickel	0.490	mg/L	0.050	98	70	130	4.3	20	
Selenium	0.484	mg/L	0.0020	96	70	130	4.8	20	
Silver	0.0463	mg/L	0.010	93	70	130	1.1	20	
Strontium	1.63	mg/L	0.10	99	70	130	5.5	20	
Thallium	0.501	mg/L	0.10	100	70	130	3.3	20	
Uranium	0.524	mg/L	0.00032	105	70	130	2.3	20	
Zinc	0.476	mg/L	0.010	95	70	130	4.3	20	
Sample ID: C08070216-002DMS3	Sample Matrix Spike			Run: SUB-C104617			07/21/08 15:12		
Antimony	0.553	mg/L	0.050	110	70	130			
Arsenic	0.521	mg/L	0.0010	104	70	130			
Barium	0.525	mg/L	0.10	102	70	130			
Beryllium	0.264	mg/L	0.010	106	70	130			
Cadmium	0.251	mg/L	0.010	100	70	130			
Chromium	0.493	mg/L	0.050	98	70	130			
Copper	0.493	mg/L	0.010	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: 09/09/08
 Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19044		
Sample ID: C08070216-002DMS3	Sample Matrix Spike			Run: SUB-C104617			07/21/08 15:12		
Lead	0.528	mg/L	0.050	106	70	130			
Manganese	2.48	mg/L	0.010	99	70	130			
Molybdenum	0.539	mg/L	0.10	108	70	130			
Nickel	0.492	mg/L	0.050	98	70	130			
Selenium	0.504	mg/L	0.0010	101	70	130			
Silver	0.0476	mg/L	0.010	95	70	130			
Strontium	1.68	mg/L	0.10	112	70	130			
Thallium	0.521	mg/L	0.10	104	70	130			
Uranium	0.570	mg/L	0.00030	114	70	130			
Zinc	0.491	mg/L	0.010	98	70	130			
Sample ID: C08070216-002DMSD3	Sample Matrix Spike Duplicate			Run: SUB-C104617			07/21/08 15:18		
Antimony	0.562	mg/L	0.050	112	70	130	1.7	20	
Arsenic	0.511	mg/L	0.0010	101	70	130	2.0	20	
Barium	0.528	mg/L	0.10	103	70	130	0.7	20	
Beryllium	0.262	mg/L	0.010	105	70	130	0.7	20	
Cadmium	0.253	mg/L	0.010	101	70	130	1.1	20	
Chromium	0.491	mg/L	0.050	98	70	130	0.4	20	
Copper	0.476	mg/L	0.010	95	70	130	3.5	20	
Lead	0.520	mg/L	0.050	104	70	130	1.4	20	
Manganese	2.48	mg/L	0.010	99	70	130	0.0	20	
Molybdenum	0.548	mg/L	0.10	109	70	130	1.6	20	
Nickel	0.477	mg/L	0.050	95	70	130	3.0	20	
Selenium	0.485	mg/L	0.0010	97	70	130	3.7	20	
Silver	0.0474	mg/L	0.010	95	70	130	0.6	20	
Strontium	1.59	mg/L	0.10	94	70	130	5.3	20	
Thallium	0.532	mg/L	0.10	106	70	130	2.1	20	
Uranium	0.591	mg/L	0.00030	118	70	130	3.6	20	
Zinc	0.482	mg/L	0.010	96	70	130	1.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_19124
Sample ID: MB-19124	Method Blank								07/24/08 13:55
Uranium	ND	mg/L	2E-05						
Sample ID: LCS1-19124	Laboratory Control Sample								07/24/08 13:59
Uranium	0.0500	mg/L	0.00030	95	80	120			
Sample ID: R08070035-007I	Post Digestion Spike								07/24/08 14:48
Uranium	0.0115	mg/L	0.00030	92	70	130			
Sample ID: R08070035-007I	Post Digestion Spike Duplicate								07/24/08 14:53
Uranium	0.0102	mg/L	0.00030	81	70	130	13	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Analytical Run: SUB-C104758							
Sample ID: CCB	Continuing Calibration Blank								07/23/08 16:28
Thorium 232	1.00E-05	mg/L	0.0010						
Sample ID: CCV	Continuing Calibration Verification Standard								07/23/08 16:35
Thorium 232	0.0579	mg/L	0.0010	97	90	110			
Method: E200.8		Batch: C_R104758							
Sample ID: LRB	Method Blank			Run: SUB-C104758			07/23/08 12:27		
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						
Uranium	4E-06	mg/L	2E-06						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C104758			07/23/08 12:34		
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			
Uranium	0.0488	mg/L	0.00030	98	85	115			
Sample ID: C08061324-001KMS4	Post Digestion Spike			Run: SUB-C104758			07/23/08 14:14		
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			
Thorium 232	0.0484	mg/L	0.0010	97	70	130			
Uranium	0.276	mg/L	0.00030		70	130			A
Sample ID: C08061324-001KMSD4	Post Digestion Spike Duplicate			Run: SUB-C104758			07/23/08 14:21		
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	
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

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104758		
Sample ID: C08070151-010BMS4	Post Digestion Spike			Run: SUB-C104758			07/23/08 16:01		
Arsenic	0.0510	mg/L	0.0010	100	70	130			
Cadmium	0.0481	mg/L	0.010	95	70	130			
Copper	0.0494	mg/L	0.010	98	70	130			
Lead	0.0474	mg/L	0.050	95	70	130			
Mercury	0.00504	mg/L	0.0010	101	70	130			
Thorium 232	0.0463	mg/L	0.0010	93	70	130			
Uranium	0.0503	mg/L	0.00030	93	70	130			
Sample ID: C08070151-010BMSD4	Post Digestion Spike Duplicate			Run: SUB-C104758			07/23/08 16:08		
Arsenic	0.0517	mg/L	0.0010	101	70	130	1.3	20	
Cadmium	0.0493	mg/L	0.010	98	70	130	2.5	20	
Copper	0.0499	mg/L	0.010	99	70	130	1.1	20	
Lead	0.0478	mg/L	0.050	96	70	130	0.0	20	
Mercury	0.00522	mg/L	0.0010	104	70	130	3.6	20	
Thorium 232	0.0470	mg/L	0.0010	94	70	130	1.5	20	
Uranium	0.0509	mg/L	0.00030	95	70	130	1.1	20	
Sample ID: C08070217-001KMS4	Post Digestion Spike			Run: SUB-C104758			07/23/08 18:15		
Arsenic	0.0595	mg/L	0.0010	102	70	130			
Cadmium	0.0473	mg/L	0.010	95	70	130			
Copper	0.0487	mg/L	0.010	97	70	130			
Lead	0.0476	mg/L	0.050	95	70	130			
Mercury	0.00492	mg/L	0.0010	98	70	130			
Thorium 232	0.0474	mg/L	0.0010	95	70	130			
Uranium	0.212	mg/L	0.00030	104	70	130			
Sample ID: C08070217-001KMSD4	Post Digestion Spike Duplicate			Run: SUB-C104758			07/23/08 18:22		
Arsenic	0.0596	mg/L	0.0010	102	70	130	0.1	20	
Cadmium	0.0478	mg/L	0.010	96	70	130	1.0	20	
Copper	0.0491	mg/L	0.010	98	70	130	0.8	20	
Lead	0.0479	mg/L	0.050	96	70	130	0.0	20	
Mercury	0.00503	mg/L	0.0010	100	70	130	2.3	20	
Thorium 232	0.0477	mg/L	0.0010	95	70	130	0.8	20	
Uranium	0.212	mg/L	0.00030	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: 09/09/08
 Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
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						
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			
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			
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
Sample ID: C08070217-001KMS4	Post Digestion Spike			Run: SUB-C104854			07/25/08 21:29		
Arsenic	0.0589	mg/L	0.0010	100	70	130			
Cadmium	0.0468	mg/L	0.010	94	70	130			
Copper	0.0470	mg/L	0.010	94	70	130			
Silver	0.0109	mg/L	0.010	54	70	130			S
Sample ID: C08070217-001KMSD4	Post Digestion Spike Duplicate			Run: SUB-C104854			07/25/08 21:36		
Arsenic	0.0580	mg/L	0.0010	98	70	130	1.5	20	
Cadmium	0.0468	mg/L	0.010	94	70	130	0.0	20	
Copper	0.0463	mg/L	0.010	92	70	130	1.5	20	
Silver	0.0109	mg/L	0.010	55	70	130	0.5	20	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: 09/09/08
 Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: B_33449		
Sample ID: MB-33449	Method Blank								
Mercury	ND	mg/L	5E-05						Run: SUB-B113878 07/11/08 08:53
Sample ID: LFB-33449	Laboratory Fortified Blank								
Mercury	0.0019	mg/L	0.0010	94	85	115			Run: SUB-B113878 07/11/08 08:55
Sample ID: B08070443-001DMS	Sample Matrix Spike								
Mercury	0.0019	mg/L	0.0010	94	70	130			Run: SUB-B113878 07/11/08 09:23
Sample ID: B08070443-001DMSD	Sample Matrix Spike Duplicate								
Mercury	0.0018	mg/L	0.0010	92	70	130	2.7	30	Run: SUB-B113878 07/11/08 09:26
Method: E245.1							Analytical Run: SUB-B113878		
Sample ID: QCS	Initial Calibration Verification Standard								
Mercury	0.0020	mg/L	0.0010	98	90	110			07/11/08 07:20
Method: E245.1							Batch: C_B_33393		
Sample ID: MB-33393	Method Blank								
Mercury	ND	mg/L	5E-05						Run: SUB-C104002 07/09/08 11:37
Sample ID: LFB-33393	Laboratory Fortified Blank								
Mercury	0.0020	mg/L	0.0010	101	85	115			Run: SUB-C104002 07/09/08 11:39
Sample ID: B08070638-001BMS	Sample Matrix Spike								
Mercury	0.0022	mg/L	0.0010	108	70	130			Run: SUB-C104002 07/09/08 12:07
Sample ID: B08070638-001BMSD	Sample Matrix Spike Duplicate								
Mercury	0.0021	mg/L	0.0010	103	70	130	4.2	30	Run: SUB-C104002 07/09/08 12:10
Method: E245.1							Batch: C_B_33449		
Sample ID: MB-33449	Method Blank								
Mercury	ND	mg/L	5E-05						Run: SUB-C104076 07/11/08 08:53
Sample ID: LFB-33449	Laboratory Fortified Blank								
Mercury	0.0019	mg/L	0.0010	94	85	115			Run: SUB-C104076 07/11/08 08:55
Sample ID: B08070443-001DMS	Sample Matrix Spike								
Mercury	0.0019	mg/L	0.0010	94	70	130			Run: SUB-C104076 07/11/08 09:23
Sample ID: B08070443-001DMSD	Sample Matrix Spike Duplicate								
Mercury	0.0018	mg/L	0.0010	92	70	130	2.7	30	Run: SUB-C104076 07/11/08 09:26

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Analytical Run: SUB-C104076
Sample ID: QCS	Initial Calibration Verification Standard								07/11/08 07:20
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: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35848		
Sample ID: LFB0807024202-3	Laboratory Fortified Blank			Run: DIONEX_080702A			07/02/08 18:52		
Chloride	4.66	mg/L	0.50	93	90	110			
Fluoride	1.86	mg/L	0.10	93	90	110			
Nitrogen, Nitrate as N	2.29	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.42	mg/L	0.10	97	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: LFB0807024202-4	Laboratory Fortified Blank			Run: DIONEX_080702A			07/02/08 19:09		
Chloride	4.54	mg/L	0.50	91	90	110			
Fluoride	1.82	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.25	mg/L	0.10	90	90	110			
Nitrogen, Nitrite as N	2.39	mg/L	0.10	96	90	110			
Sulfate	13.7	mg/L	1.0	91	90	110			
Sample ID: R08070031-001AMS	Sample Matrix Spike			Run: DIONEX_080702A			07/02/08 22:59		
Chloride	24.6	mg/L	0.50		80	120			A
Fluoride	2.11	mg/L	0.10	91	80	120			
Nitrogen, Nitrate as N	2.32	mg/L	0.10	93	80	120			
Nitrogen, Nitrite as N	2.45	mg/L	0.10	98	80	120			
Sulfate	36.8	mg/L	1.0	81	80	120			
Sample ID: R08070031-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080702A			07/02/08 23:15		
Chloride	24.5	mg/L	0.50		80	120	0.5	10	A
Fluoride	2.06	mg/L	0.10	89	80	120	2.4	10	
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	80	120	2.2	10	
Nitrogen, Nitrite as N	2.39	mg/L	0.10	96	80	120	2.5	10	
Sulfate	36.4	mg/L	1.0	79	80	120	0.9	10	S
Sample ID: R08070035-004AMS	Sample Matrix Spike			Run: DIONEX_080702A			07/03/08 02:32		
Chloride	105	mg/L	2.2	88	80	120			
Fluoride	35.9	mg/L	0.22	83	80	120			
Nitrogen, Nitrate as N	46.1	mg/L	0.50	92	80	120			
Nitrogen, Nitrite as N	48.9	mg/L	1.2	98	80	120			
Sulfate	715	mg/L	1.3	86	80	120			
Sample ID: R08070035-004AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080702A			07/03/08 02:49		
Chloride	103	mg/L	2.2	86	80	120	2.3	10	
Fluoride	35.3	mg/L	0.22	81	80	120	1.7	10	
Nitrogen, Nitrate as N	45.4	mg/L	0.50	91	80	120	1.6	10	
Nitrogen, Nitrite as N	48.0	mg/L	1.2	96	80	120	1.7	10	
Sulfate	713	mg/L	1.3	85	80	120	0.3	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

Report Date: 09/09/08

Project: Edgemont

Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35848		
Sample ID: R08070041-001CMS	Sample Matrix Spike				Run: DIONEX_080702A			07/03/08 05:49	
Chloride	177	mg/L	0.50		80	120			A
Fluoride	2.74	mg/L	0.10	90	80	120			
Nitrogen, Nitrate as N	2.75	mg/L	0.10	90	80	120			
Nitrogen, Nitrite as N	2.83	mg/L	0.10	93	80	120			
Sulfate	660	mg/L	1.0		80	120			A
Sample ID: R08070041-001CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080702A			07/03/08 06:06	
Chloride	177	mg/L	0.50		80	120	0.4	10	A
Fluoride	2.68	mg/L	0.10	87	80	120	2.2	10	
Nitrogen, Nitrate as N	2.68	mg/L	0.10	88	80	120	2.6	10	
Nitrogen, Nitrite as N	2.76	mg/L	0.10	90	80	120	2.5	10	
Sulfate	661	mg/L	1.0		80	120	0.2	10	A
Method: E900.0							Batch: C_GrAB-0492		
Sample ID: MB-GrAB-0492	Method Blank				Run: SUB-C105435			08/02/08 23:41	
Gross Alpha	0.2	pCi/L							U
Gross Beta	3	pCi/L							
Sample ID: UNAT-GrAB-0492	Laboratory Control Sample				Run: SUB-C105435			08/02/08 23:41	
Gross Alpha	140	pCi/L		102	70	130			
Sample ID: Cs137-GrAB-0492	Laboratory Control Sample				Run: SUB-C105435			08/02/08 23:41	
Gross Beta	96	pCi/L		98	70	130			
Sample ID: C08070267-002AMS	Sample Matrix Spike				Run: SUB-C105435			08/02/08 23:41	
Gross Alpha	173	pCi/L		124	70	130			
Sample ID: C08070267-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C105435			08/02/08 23:41	
Gross Alpha	172	pCi/L		123	70	130	0.5	15.6	
Sample ID: C08070267-002AMS	Sample Matrix Spike				Run: SUB-C105435			08/03/08 17:55	
Gross Beta	83.0	pCi/L		90	70	130			
Sample ID: C08070267-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C105435			08/03/08 17:55	
Gross Beta	92.5	pCi/L		100	70	130	11	16.1	

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.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/09/08
 Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R104840		
Sample ID: LCS-R104840	Laboratory Control Sample				Run: SUB-C104840			07/17/08 13:12	
Americium 241	230000	pCi/L	20	75	70	130			
Cesium 137	460000	pCi/L	20	106	70	130			
Cobalt 60	320000	pCi/L	20	101	70	130			
Sample ID: MB-R104840	Method Blank				Run: SUB-C104840			07/17/08 13:12	
Gross Gamma	ND	pCi/L							U
Sample ID: R08070035-007H	Sample Duplicate				Run: SUB-C104840			07/17/08 13:12	
Gross Gamma	1000	pCi/L	20				8.7	30	
Method: E903.0							Batch: C_19124		
Sample ID: C08070377-005AMS	Sample Matrix Spike				Run: SUB-C104725			07/23/08 14:56	
Radium 226	74.6	pCi/Filter		94	70	130			
Sample ID: C08070377-005AMSD	Sample Matrix Spike Duplicate				Run: SUB-C104725			07/23/08 14:56	
Radium 226	70.5	pCi/Filter		90	70	130	5.7	22	
Sample ID: LCS-19124	Laboratory Control Sample				Run: SUB-C104725			07/23/08 14:56	
Radium 226	14	pCi/L		83	70	130			
Sample ID: MB-19124	Method Blank				Run: SUB-C104725			07/23/08 14:56	
Radium 226	0.2	pCi/L							U
Method: E903.0							Batch: C_RA226-2956		
Sample ID: C08070219-001AMS	Sample Matrix Spike				Run: SUB-C105579			08/06/08 21:37	
Radium 226	17	pCi/L		97	70	130			
Sample ID: C08070219-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C105579			08/06/08 21:37	
Radium 226	20	pCi/L		118	70	130	18	25.2	
Sample ID: MB-RA226-2956	Method Blank				Run: SUB-C105579			08/06/08 23:12	
Radium 226	-0.1	pCi/L							U
Sample ID: LCS-RA226-2956	Laboratory Control Sample				Run: SUB-C105579			08/06/08 23:12	
Radium 226	8.2	pCi/L		105	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: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_19124		
Sample ID: C08070112-006AMS Thorium 230	Sample Matrix Spike 177 pCi/Filter		0.20	106	70	130			07/28/08 20:10
Sample ID: C08070112-006AMS2 Thorium 230	Sample Matrix Spike 87.3 pCi/Filter		0.20	94	70	130			07/29/08 09:57
- Sample reported as a second spike, not an MSD, due to being spiked with a different amount of standard than the MS.									
Sample ID: LCS-19124 Thorium 230	Laboratory Control Sample 41.5 pCi/Filter		0.20	85	70	130			07/29/08 09:58
Sample ID: MB-19124 Thorium 230	Method Blank -0.1 pCi/Filter								07/29/08 19:59 U
Method: E907.0							Batch: C_RA-TH-ISO-0585		
Sample ID: LCS-RA-TH-ISO-0585 Thorium 230	Laboratory Control Sample 5.75 pCi/L		0.20	94	70	130			08/03/08 18:39
Sample ID: R08070035-005H Thorium 230	Sample Matrix Spike 14.5 pCi/L		0.20	88	70	130			08/04/08 00:44
Sample ID: R08070035-005H Thorium 230	Sample Matrix Spike Duplicate 17.2 pCi/L		0.20	105	70	130	17	30	08/04/08 00:44
Sample ID: MB-RA-TH-ISO-0585 Thorium 230	Method Blank 0.05 pCi/L								08/04/08 00:44 U
Method: E909.0M							Batch: C_19124		
Sample ID: C08070112-003AMS Lead 210	Sample Matrix Spike 2870 pCi/Filter			119	70	130			07/22/08 11:00
Sample ID: C08070112-003AMSD Lead 210	Sample Matrix Spike Duplicate 2290 pCi/Filter			69	70	130	23	30	07/22/08 11:00 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: MB-R105681 Lead 210	Method Blank 2 pCi/L								07/22/08 11:00 U
Sample ID: LCS-R105681 Lead 210	Laboratory Control Sample 120 pCi/L			97	70	130			07/22/08 11:00

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: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R105847		
Sample ID: C08070547-001HMS	Sample Matrix Spike				Run: SUB-C105847				07/24/08 08:45
Lead 210	560	pCi/L	91	70	130				
Sample ID: C08070547-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C105847				07/24/08 08:45
Lead 210	590	pCi/L	96	70	130	5.4	30		
Sample ID: MB-R105847	Method Blank				Run: SUB-C105847				07/24/08 08:45
Lead 210	5	pCi/L							U
Sample ID: LCS-R105847	Laboratory Control Sample				Run: SUB-C105847				07/24/08 08:45
Lead 210	130	pCi/L	106	70	130				
Method: RMO-3008							Batch: C_R104910		
Sample ID: R08070035-001H	Sample Matrix Spike				Run: SUB-C104910				07/14/08 17:45
Polonium 210	57	pCi/L	1.0	66	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 response is considered to be matrix related. The batch is approved.									
Sample ID: R08070035-001H	Sample Matrix Spike Duplicate				Run: SUB-C104910				07/14/08 17:45
Polonium 210	59	pCi/L	1.0	68	70	130	3.6	30	S
- Spike response is outside of the acceptance range for this analysis. Since the RPD for the MS MSD pair is acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: LCS-R104910	Laboratory Control Sample				Run: SUB-C104910				07/14/08 17:45
Polonium 210	69	pCi/L	1.0	159	70	130			S
- LCS response is outside of the acceptance range for this analysis.									
Sample ID: MB-R104910	Method Blank				Run: SUB-C104910				07/14/08 17:45
Polonium 210	ND	pCi/L							U
Method: RMO-3008							Batch: C_R106180		
Sample ID: R08070035-001I	Sample Matrix Spike				Run: SUB-C106180				08/18/08 17:00
Polonium 210	19	pCi/L	1.0	94	70	130			
Sample ID: R08070035-001I	Sample Matrix Spike Duplicate				Run: SUB-C106180				08/18/08 17:00
Polonium 210	23	pCi/L	1.0	114	70	130	19	30	
Sample ID: LCS-19031	Laboratory Control Sample				Run: SUB-C106180				08/18/08 17:00
Polonium 210	95	pCi/L	1.0	117	70	130			
Sample ID: MB-19031	Method Blank				Run: SUB-C106180				08/18/08 17:00
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



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
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.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: **RESER**
 Project Name, PWS, Permit, Etc: **Reserch Dairy Indus**
 Report Mail Address: **RESER**
 Contact Name: **Corr. Foreman Cresper.com**
 Phone/Fax: _____
 State: **SD**
 Email: _____
 Invoice Address: _____
 Invoice Contact & Phone: _____
 Purchase Order: _____
 Quote/Bottle Order: _____

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

- DW
- GSA
- POTW/MWTP
- 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)

R U S H

Contact EI prior to RUSH sample submittal for charges and scheduling - See Instruction Page
 Comments: *All GW - Pump test done*

Shipped by: _____
 Cooler Dry: _____
 Receipt Temp: **7.8 °C**
 On Ice: Yes No
 Custody Seal: _____
 Inset: _____
 Signature: _____
 Match: _____

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Signature	Date/Time	Signature	Date/Time	Signature	Date/Time
1 Dev Burd GW 693	7/1/08	19:39	W	<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	
2 Dev Burd GW 691	7/1/08	19:17	W	<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	
3 Dev Burd GW 49	7/1/08	18:26	W	<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	
4 Dev Burd GW 687	7/1/08	18:02	W	<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	
5 Dev Burd GW 681	7/1/08	16:54	W	<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	
6 Dev Burd GW 689	7/1/08	16:17	W	<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	
7 Dev Burd GW 685	7/1/08	15:48	W	<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	
8									
9									
10									

Custody Record MUST be Signed

Requested by (print): **Eric Krantz**
 Signature: *[Signature]*
 Date/Time: **7/1/08 09:00**

Requested by (print): **Steve Fraiband**
 Signature: *[Signature]*
 Date/Time: **7-2-08 9:10**

Requested by (print): _____
 Signature: _____
 Date/Time: _____

LABORATORY USE ONLY

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



ANALYTICAL SUMMARY REPORT

September 12, 2008

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

Workorder No.: R08070115 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 7 samples from RESPEC Inc on 7/8/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08070115-001	DewBurd GW692	07/07/08 13:39	07/08/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08070115-002	DewBurd GW680	07/07/08 13:29	07/08/08	Aqueous	Same As Above
R08070115-003	DewBurd GW682	07/07/08 15:22	07/08/08	Aqueous	Same As Above
R08070115-004	DewBurd GW684	07/07/08 17:22	07/08/08	Aqueous	Same As Above
R08070115-005	DewBurd GW690	07/07/08 18:10	07/08/08	Aqueous	Same As Above
R08070115-006	DewBurd GW688	07/07/08 18:49	07/08/08	Aqueous	Same As Above
R08070115-007	DewBurd GW686	07/07/08 19:03	07/08/08	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.





CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08070115

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 7/8/2008 9:50:00 AM. These samples were assigned ELI Workorder Number R08070115.

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.
- 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: C08070547

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: C08070547



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-001
 Client Sample ID: DewBurd GW692

Report Date: 09/12/08
 Collection Date: 07/07/08 13:39
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	186	mg/L		5		1	A2320 B	07/15/08 14:24/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/15/08 14:24/mb
Bicarbonate as HCO3	227	mg/L		5		1	A2320 B	07/15/08 14:24/mb
Calcium	131	mg/L		0.5		2	E200.7	07/24/08 17:27/eli-c
Chloride	8	mg/L		1		1	E300.0	07/08/08 19:58/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	07/08/08 19:58/jmh
Magnesium	46.5	mg/L		0.5		2	E200.7	07/24/08 17:27/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	07/14/08 14:31/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/08/08 19:58/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/08/08 19:58/jmh
Potassium	14.7	mg/L		0.5		2	E200.7	07/24/08 17:27/eli-c
Silica	4.8	mg/L		0.5		2	E200.7	07/24/08 17:27/eli-c
Sodium	105	mg/L	D	2		2	E200.7	07/24/08 17:27/eli-c
Sulfate	483	mg/L	D	3		50	E300.0	07/08/08 19:42/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1260	umhos/cm		5.0		1	A2510 B	07/10/08 09:46/tb
Oxidation-Reduction Potential	180	mV				1	A2580 B	07/11/08 00:00/kh
pH	7.60	s.u.		0.01		1	A4500-H B	07/10/08 11:03/tb
Sodium Adsorption Ratio (SAR)	2.0	unitless		0.10		1	Calculation	09/11/08 08:58/ADM
Solids, Total Dissolved TDS @ 180 C	940	mg/L		5		1	A2540 C	07/11/08 13:20/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/24/08 08:09/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	07/24/08 08:09/eli-c
Barium	ND	mg/L		0.1		1	E200.8	07/24/08 08:09/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	07/24/08 17:27/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/24/08 08:09/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	07/24/08 08:09/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/24/08 08:09/eli-c
Iron	ND	mg/L		0.03		2	E200.7	07/24/08 17:27/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/24/08 08:09/eli-c
Manganese	0.14	mg/L		0.01		1	E200.8	07/24/08 08:09/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/24/08 08:09/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	07/24/08 08:09/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	07/24/08 08:09/eli-c
Selenium	0.002	mg/L		0.001		1	A3114 B	08/05/08 16:54/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/29/08 18:02/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/24/08 08:09/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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-001
 Client Sample ID: DewBurd GW692

Report Date: 09/12/08
 Collection Date: 07/07/08 13:39
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0135	mg/L		0.0003		1	E200.8	07/24/08 08:09/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/24/08 08:09/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	07/24/08 08:09/eli-c
METALS - SUSPENDED								
Uranium	0.0067	mg/L		0.0003		1	E200.8	07/27/08 03:29/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/05/08 14:51/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	08/05/08 17:40/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1450	pCi/L				1	E900.0	08/09/08 00:01/eli-c
Gross Alpha precision (±)	26.0	pCi/L				1	E900.0	08/09/08 00:01/eli-c
Gross Alpha MDC	3.8	pCi/L				1	E900.0	08/09/08 00:01/eli-c
Gross Beta	447	pCi/L				1	E900.0	08/09/08 00:01/eli-c
Gross Beta precision (±)	7.3	pCi/L				1	E900.0	08/09/08 00:01/eli-c
Gross Beta MDC	4.5	pCi/L				1	E900.0	08/09/08 00:01/eli-c
Lead 210	22.5	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	5.0	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Polonium 210	3.5	pCi/L		1.0		1	RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	2.1	pCi/L				1	RMO-3008	08/21/08 17:30/eli-c
Radium 226	484	pCi/L				1	E903.0	08/05/08 16:59/eli-c
Radium 226 precision (±)	4.2	pCi/L				1	E903.0	08/05/08 16:59/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/10/08 16:43/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	08/10/08 16:43/eli-c
Gross Gamma	2400	pCi/L		20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	260	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	125	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	14.5	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Polonium 210	12	pCi/L		1.0		1	RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	3.4	pCi/L				1	RMO-3008	07/31/08 14:15/eli-c
Radium 226	96.1	pCi/L				1	E903.0	08/06/08 13:33/eli-c
Radium 226 precision (±)	3.5	pCi/L				1	E903.0	08/06/08 13:33/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	08/06/08 13:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070115-001
 Client Sample ID: DewBurd GW692

Report Date: 09/12/08
 Collection Date: 07/07/08 13:39
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Thorium 230	2.6	pCi/L		0.2		1	E907.0	08/04/08 22:05/eli-c
Thorium 230 precision (±)	0.7	pCi/L				1	E907.0	08/04/08 22:05/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	590000	pCi/L		100		1	D5072-92	07/12/08 12:07/eli-c
Radon 222 precision (±)	920	pCi/L				1	D5072-92	07/12/08 12:07/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	07/29/08 01:00/eli-c
Arsenic	0.005	mg/L		0.001		1	E200.8	07/29/08 01:00/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/21/08 17:35/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	07/29/08 01:00/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/21/08 17:35/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/29/08 01:00/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/21/08 17:35/eli-c
Copper	0.01	mg/L		0.01		2	E200.7	07/21/08 17:35/eli-c
Iron	7.24	mg/L		0.03		2	E200.7	07/21/08 17:35/eli-c
Lead	0.006	mg/L		0.001		1	E200.8	07/29/08 01:00/eli-c
Manganese	0.24	mg/L		0.01		2	E200.7	07/21/08 17:35/eli-c
Mercury	ND	mg/L		0.0002		1	E245.1	07/11/08 16:42/eli-b
Mercury	ND	mg/L		0.0001		1	E245.1	07/21/08 10:11/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	07/21/08 17:35/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/21/08 17:35/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	07/29/08 01:00/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/29/08 01:00/eli-c
Strontium	3.2	mg/L		0.1		2	E200.7	07/21/08 17:35/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	07/29/08 01:00/eli-c
Uranium	0.0202	mg/L		0.0003		1	E200.8	07/29/08 01:00/eli-c
Zinc	0.03	mg/L		0.01		2	E200.7	07/21/08 17:35/eli-c
DATA QUALITY								
A/C Balance (± 5)	4.52	%				1	A1030 E	09/11/08 00:00/jmh
Anions	14.0	meq/L				1	A1030 E	09/11/08 00:00/jmh
Cations	15.4	meq/L				1	A1030 E	09/11/08 00:00/jmh
Solids, Total Dissolved Calculated	914	mg/L				1	A1030 E	09/11/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.02					1	A1030 E	09/11/08 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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-002
 Client Sample ID: DewBurd GW680

Report Date: 09/12/08
 Collection Date: 07/07/08 13:29
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
MAJOR IONS								
Alkalinity, Total as CaCO3	248	mg/L		5		1	A2320 B	07/15/08 14:28/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/15/08 14:28/mb
Bicarbonate as HCO3	302	mg/L		5		1	A2320 B	07/15/08 14:28/mb
Calcium	404	mg/L		0.5		2	E200.7	07/24/08 17:35/eli-c
Chloride	12	mg/L		1		1	E300.0	07/08/08 20:31/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	07/08/08 20:31/jmh
Magnesium	126	mg/L		0.5		2	E200.7	07/24/08 17:35/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	07/14/08 14:32/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/08/08 20:31/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/08/08 20:31/jmh
Potassium	19.4	mg/L		0.5		2	E200.7	07/24/08 17:35/eli-c
Silica	4.3	mg/L		0.5		2	E200.7	07/24/08 17:35/eli-c
Sodium	131	mg/L	D	2		2	E200.7	07/24/08 17:35/eli-c
Sulfate	1260	mg/L	D	3		50	E300.0	07/08/08 20:15/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2490	umhos/cm		5.0		1	A2510 B	07/10/08 09:48/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	07/11/08 00:00/kh
pH	7.27	s.u.		0.01		1	A4500-H B	07/10/08 11:04/tb
Sodium Adsorption Ratio (SAR)	1.5	unitless		0.10		1	Calculation	09/11/08 08:58/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	07/11/08 13:21/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/24/08 17:35/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	07/26/08 04:43/eli-c
Barium	ND	mg/L		0.1		1	E200.8	07/26/08 04:43/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	07/24/08 17:35/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/26/08 04:43/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/24/08 17:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/26/08 04:43/eli-c
Iron	0.20	mg/L		0.03		2	E200.7	07/24/08 17:35/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/26/08 04:43/eli-c
Manganese	0.44	mg/L		0.01		1	E200.8	07/26/08 04:43/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/26/08 04:43/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	07/26/08 04:43/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/24/08 17:35/eli-c
Selenium	0.002	mg/L		0.001		1	A3114 B	08/05/08 17:00/eli-c
Silver	ND	mg/L	D	0.01		2	E200.7	07/24/08 17:35/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/26/08 04:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070115-002
 Client Sample ID: DewBurd GW680

Report Date: 09/12/08
 Collection Date: 07/07/08 13:29
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0186	mg/L		0.0003		1 E200.8	07/26/08 04:43/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	07/24/08 17:35/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	07/26/08 04:43/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	07/27/08 03:33/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	08/05/08 14:57/eli-c
Selenium-VI	0.002	mg/L		0.001		1 A3114 B	08/05/08 17:40/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	4280	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Gross Alpha precision (±)	68.1	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Gross Alpha MDC	8.8	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Gross Beta	1090	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Gross Beta precision (±)	16.0	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Gross Beta MDC	9.2	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Lead 210	26.5	pCi/L				1 E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	5.1	pCi/L				1 E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1 E909.0M	07/24/08 08:45/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1 RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	0.97	pCi/L				1 RMO-3008	08/21/08 17:30/eli-c
Radium 226	1280	pCi/L				1 E903.0	08/05/08 16:59/eli-c
Radium 226 precision (±)	6.7	pCi/L				1 E903.0	08/05/08 16:59/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	08/08/08 11:01/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	08/08/08 11:01/eli-c
Gross Gamma	2300	pCi/L		20		1 E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	270	pCi/L				1 E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	1.2	pCi/L	U			1 E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.8	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Polonium 210	1.7	pCi/L		1.0		1 RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1 RMO-3008	07/31/08 14:15/eli-c
Radium 226	5.0	pCi/L				1 E903.0	08/06/08 13:33/eli-c
Radium 226 precision (±)	0.9	pCi/L				1 E903.0	08/06/08 13:33/eli-c
Radium 226 MDC	0.6	pCi/L				1 E903.0	08/06/08 13:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070115-002
 Client Sample ID: DewBurd GW680

Report Date: 09/12/08
 Collection Date: 07/07/08 13:29
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.1	pCi/L	U	0.2		E907.0	08/04/08 22:05/eli-c
Thorium 230 precision (±)	0.2	pCi/L				E907.0	08/04/08 22:05/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	72000	pCi/L		100		D5072-92	07/12/08 13:49/eli-c
Radon 222 precision (±)	325	pCi/L				D5072-92	07/12/08 13:49/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		E200.8	07/29/08 01:07/eli-c
Arsenic	0.004	mg/L		0.001		E200.8	07/29/08 01:07/eli-c
Barium	ND	mg/L		0.1		E200.7	07/21/08 17:43/eli-c
Beryllium	ND	mg/L		0.001		E200.8	07/29/08 01:07/eli-c
Boron	ND	mg/L		0.1		E200.7	07/21/08 17:43/eli-c
Cadmium	ND	mg/L		0.005		E200.8	07/29/08 01:07/eli-c
Chromium	ND	mg/L		0.05		E200.7	07/21/08 17:43/eli-c
Copper	ND	mg/L		0.01		E200.7	07/21/08 17:43/eli-c
Iron	0.31	mg/L		0.03		E200.7	07/21/08 17:43/eli-c
Lead	ND	mg/L		0.001		E200.8	07/29/08 01:07/eli-c
Manganese	0.47	mg/L		0.01		E200.7	07/21/08 17:43/eli-c
Mercury	ND	mg/L		0.0002		E245.1	07/11/08 16:57/eli-b
Mercury	ND	mg/L		0.0001		E245.1	07/21/08 10:18/eli-b
Molybdenum	ND	mg/L		0.1		E200.7	07/21/08 17:43/eli-c
Nickel	ND	mg/L		0.05		E200.7	07/21/08 17:43/eli-c
Selenium	ND	mg/L		0.001		E200.8	07/29/08 01:07/eli-c
Silver	ND	mg/L		0.005		E200.8	07/29/08 01:07/eli-c
Strontium	7.6	mg/L		0.1		E200.7	07/21/08 17:43/eli-c
Thallium	ND	mg/L		0.001		E200.8	07/29/08 01:07/eli-c
Uranium	0.0208	mg/L		0.0003		E200.8	07/29/08 01:07/eli-c
Zinc	ND	mg/L		0.01		E200.7	07/21/08 17:43/eli-c
DATA QUALITY							
A/C Balance (± 5)	7.57	%				A1030 E	09/11/08 00:00/jmh
Anions	31.6	meq/L				A1030 E	09/11/08 00:00/jmh
Cations	36.8	meq/L				A1030 E	09/11/08 00:00/jmh
Solids, Total Dissolved Calculated	2120	mg/L				A1030 E	09/11/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.10					A1030 E	09/11/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: R08070115-003
 Client Sample ID: DewBurd GW682

Report Date: 09/12/08
 Collection Date: 07/07/08 15:22
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	242	mg/L		5		A2320 B	07/15/08 14:31/mb
Carbonate as CO3	ND	mg/L		5		A2320 B	07/15/08 14:31/mb
Bicarbonate as HCO3	295	mg/L		5		A2320 B	07/15/08 14:31/mb
Calcium	365	mg/L		0.5		E200.7	07/22/08 15:38/eli-c
Chloride	12	mg/L		1		E300.0	07/08/08 21:04/jmh
Fluoride	0.4	mg/L		0.1		E300.0	07/08/08 21:04/jmh
Magnesium	109	mg/L		0.5		E200.7	07/22/08 15:38/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		A4500-NH3 G	07/14/08 14:33/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		E300.0	07/08/08 21:04/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		E300.0	07/08/08 21:04/jmh
Potassium	22.9	mg/L		0.5		E200.7	07/22/08 15:38/eli-c
Silica	2.1	mg/L		0.5		E200.7	07/22/08 15:38/eli-c
Sodium	113	mg/L		0.5		E200.7	07/22/08 15:38/eli-c
Sulfate	1170	mg/L	D	3		E300.0	07/08/08 20:47/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2360	umhos/cm		5.0		A2510 B	07/10/08 09:49/tb
Oxidation-Reduction Potential	290	mV				A2580 B	07/11/08 00:00/kh
pH	7.30	s.u.		0.01		A4500-H B	07/10/08 11:05/tb
Sodium Adsorption Ratio (SAR)	1.3	unitless		0.10		Calculation	09/11/08 08:58/ADM
Solids, Total Dissolved TDS @ 180 C	1800	mg/L		5		A2540 C	07/11/08 13:21/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	07/22/08 15:38/eli-c
Arsenic	0.002	mg/L		0.001		E200.8	07/26/08 04:49/eli-c
Barium	ND	mg/L		0.1		E200.8	07/26/08 04:49/eli-c
Boron	0.2	mg/L		0.1		E200.7	07/22/08 15:38/eli-c
Cadmium	ND	mg/L		0.005		E200.8	07/26/08 04:49/eli-c
Chromium	ND	mg/L		0.05		E200.8	07/26/08 04:49/eli-c
Copper	ND	mg/L		0.01		E200.8	07/26/08 04:49/eli-c
Iron	ND	mg/L		0.03		E200.8	07/26/08 04:49/eli-c
Lead	ND	mg/L		0.001		E200.8	07/26/08 04:49/eli-c
Manganese	0.51	mg/L		0.01		E200.8	07/26/08 04:49/eli-c
Mercury	ND	mg/L		0.001		E200.8	07/26/08 04:49/eli-c
Molybdenum	ND	mg/L		0.1		E200.8	07/26/08 04:49/eli-c
Nickel	ND	mg/L		0.05		E200.8	07/26/08 04:49/eli-c
Selenium	ND	mg/L		0.001		A3114 B	08/05/08 17:02/eli-c
Silver	ND	mg/L		0.005		E200.8	07/29/08 18:43/eli-c
Thorium 232	ND	mg/L		0.005		E200.8	07/26/08 04:49/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070115-003
 Client Sample ID: DewBurd GW682

Report Date: 09/12/08
 Collection Date: 07/07/08 15:22
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0198	mg/L		0.0003		1	E200.8	07/26/08 04:49/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/26/08 04:49/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	07/26/08 04:49/eli-c
METALS - SUSPENDED								
Uranium	0.0004	mg/L		0.0003		1	E200.8	07/27/08 03:37/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/05/08 14:59/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/05/08 17:40/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	50.3	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Gross Alpha precision (±)	7.6	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Gross Alpha MDC	7.0	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Gross Beta	14.0	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Gross Beta precision (±)	6.8	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Gross Beta MDC	11.0	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Lead 210	2.4	pCi/L	U			1	E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008	08/21/08 17:30/eli-c
Radium 226	3.4	pCi/L				1	E903.0	08/05/08 16:59/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/05/08 16:59/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/08/08 11:01/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	08/08/08 11:01/eli-c
Gross Gamma	790	pCi/L		20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	150	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-9.2	pCi/L	U			1	E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.6	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.61	pCi/L				1	RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	08/06/08 13:33/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/06/08 13:33/eli-c
Radium 226 MDC	0.7	pCi/L				1	E903.0	08/06/08 13:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070115-003
 Client Sample ID: DewBurd GW682

Report Date: 09/12/08
 Collection Date: 07/07/08 15:22
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By	
				RL	QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.3	pCi/L		0.2			1	E907.0	08/04/08 22:05/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	08/04/08 22:05/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1380	pCi/L		100			1	D5072-92	07/12/08 14:40/eli-c
Radon 222 precision (±)	65.5	pCi/L					1	D5072-92	07/12/08 14:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	07/29/08 01:14/eli-c
Arsenic	0.010	mg/L		0.001			1	E200.8	07/29/08 01:14/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/21/08 17:47/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	07/29/08 01:14/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/21/08 17:47/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/29/08 01:14/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/21/08 17:47/eli-c
Copper	0.01	mg/L		0.01			2	E200.7	07/21/08 17:47/eli-c
Iron	1.15	mg/L		0.03			2	E200.7	07/21/08 17:47/eli-c
Lead	0.001	mg/L		0.001			1	E200.8	07/29/08 01:14/eli-c
Manganese	0.55	mg/L		0.01			2	E200.7	07/21/08 17:47/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/11/08 17:04/eli-b
Mercury	ND	mg/L		0.0001			1	E245.1	07/21/08 10:20/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/21/08 17:47/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/21/08 17:47/eli-c
Selenium	0.002	mg/L		0.001			1	E200.8	07/29/08 01:14/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/29/08 01:14/eli-c
Strontium	6.6	mg/L		0.1			2	E200.7	07/21/08 17:47/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	07/29/08 01:14/eli-c
Uranium	0.0227	mg/L		0.0003			1	E200.8	07/29/08 01:14/eli-c
Zinc	0.01	mg/L		0.01			2	E200.7	07/21/08 17:47/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.13	%					1	A1030 E	09/11/08 00:00/jmh
Anions	29.5	meq/L					1	A1030 E	09/11/08 00:00/jmh
Cations	32.7	meq/L					1	A1030 E	09/11/08 00:00/jmh
Solids, Total Dissolved Calculated	1940	mg/L					1	A1030 E	09/11/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.940						1	A1030 E	09/11/08 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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-004
 Client Sample ID: DewBurd GW684

Report Date: 09/12/08
 Collection Date: 07/07/08 17:22
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO ₃	274	mg/L		5		1	A2320 B	07/15/08 14:53/mb
Carbonate as CO ₃	ND	mg/L		5		1	A2320 B	07/15/08 14:53/mb
Bicarbonate as HCO ₃	334	mg/L		5		1	A2320 B	07/15/08 14:53/mb
Calcium	375	mg/L		0.5		1	E200.7	07/22/08 15:42/eli-c
Chloride	11	mg/L		1		1	E300.0	07/08/08 22:09/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	07/08/08 22:09/jmh
Magnesium	119	mg/L		0.5		1	E200.7	07/22/08 15:42/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH ₃ G	07/14/08 14:34/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/08/08 22:09/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/08/08 22:09/jmh
Potassium	24.5	mg/L		0.5		1	E200.7	07/22/08 15:42/eli-c
Silica	2.7	mg/L		0.5		1	E200.7	07/22/08 15:42/eli-c
Sodium	127	mg/L		0.5		1	E200.7	07/22/08 15:42/eli-c
Sulfate	1280	mg/L	D	3		50	E300.0	07/08/08 21:20/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2510	umhos/cm		5.0		1	A2510 B	07/10/08 09:52/tb
Oxidation-Reduction Potential	300	mV				1	A2580 B	07/11/08 00:00/kh
pH	7.43	s.u.		0.01		1	A4500-H B	07/10/08 11:07/tb
Sodium Adsorption Ratio (SAR)	1.5	unitless		0.10		1	Calculation	09/11/08 08:58/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	07/11/08 13:22/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.7	07/22/08 15:42/eli-c
Arsenic	0.030	mg/L		0.001		1	E200.8	07/26/08 04:56/eli-c
Barium	ND	mg/L		0.1		1	E200.8	07/26/08 04:56/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	07/22/08 15:42/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/26/08 04:56/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	07/26/08 04:56/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/26/08 04:56/eli-c
Iron	0.47	mg/L		0.03		1	E200.7	07/22/08 15:42/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/26/08 04:56/eli-c
Manganese	0.54	mg/L		0.01		1	E200.8	07/26/08 04:56/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/26/08 04:56/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	07/26/08 04:56/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	07/26/08 04:56/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	08/05/08 17:04/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/29/08 18:50/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/26/08 04:56/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070115-004
 Client Sample ID: DewBurd GW684

Report Date: 09/12/08
 Collection Date: 07/07/08 17:22
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0667	mg/L		0.0003		1 E200.8	07/26/08 04:56/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	07/26/08 04:56/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	07/26/08 04:56/eli-c
METALS - SUSPENDED							
Uranium	0.177	mg/L		0.0003		1 E200.8	07/27/08 03:41/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	08/05/08 15:01/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	08/05/08 17:40/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1890	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Gross Alpha precision (±)	45.6	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Gross Alpha MDC	8.8	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Gross Beta	556	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Gross Beta precision (±)	12.0	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Gross Beta MDC	9.2	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Lead 210	29.0	pCi/L				1 E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	5.1	pCi/L				1 E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1 E909.0M	07/24/08 08:45/eli-c
Polonium 210	5.1	pCi/L		1.0		1 RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	2.0	pCi/L				1 RMO-3008	08/21/08 17:30/eli-c
Radium 226	543	pCi/L				1 E903.0	08/05/08 16:59/eli-c
Radium 226 precision (±)	4.2	pCi/L				1 E903.0	08/05/08 16:59/eli-c
Thorium 230	0.8	pCi/L		0.2		1 E907.0	08/10/08 16:44/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1 E907.0	08/10/08 16:44/eli-c
Gross Gamma	1800	pCi/L		20		1 E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	240	pCi/L				1 E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	94.6	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	14.1	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Polonium 210	56	pCi/L		1.0		1 RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	13	pCi/L				1 RMO-3008	07/31/08 14:15/eli-c
Radium 226	44.1	pCi/L				1 E903.0	08/06/08 13:33/eli-c
Radium 226 precision (±)	2.5	pCi/L				1 E903.0	08/06/08 13:33/eli-c
Radium 226 MDC	0.6	pCi/L				1 E903.0	08/06/08 13:33/eli-c

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

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



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-004
 Client Sample ID: DewBurd GW684

Report Date: 09/12/08
 Collection Date: 07/07/08 17:22
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Thorium 230	65.9	pCi/L		0.2		1	E907.0	08/06/08 15:14/eli-c
Thorium 230 precision (±)	10	pCi/L				1	E907.0	08/06/08 15:14/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	234000	pCi/L		100		1	D5072-92	07/12/08 15:31/eli-c
Radon 222 precision (±)	572	pCi/L				1	D5072-92	07/12/08 15:31/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	07/29/08 01:21/eli-c
Arsenic	0.040	mg/L		0.001		1	E200.8	07/29/08 01:21/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/21/08 17:51/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	07/29/08 01:21/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	07/21/08 17:51/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/29/08 01:21/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/21/08 17:51/eli-c
Copper	ND	mg/L		0.01		2	E200.7	07/21/08 17:51/eli-c
Iron	1.68	mg/L		0.03		2	E200.7	07/21/08 17:51/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	07/29/08 01:21/eli-c
Manganese	0.63	mg/L		0.01		2	E200.7	07/21/08 17:51/eli-c
Mercury	ND	mg/L		0.0002		1	E245.1	07/11/08 17:07/eli-b
Mercury	ND	mg/L		0.0001		1	E245.1	07/21/08 10:23/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	07/21/08 17:51/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/21/08 17:51/eli-c
Selenium	0.005	mg/L		0.001		1	E200.8	07/29/08 01:21/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/29/08 01:21/eli-c
Strontium	7.6	mg/L		0.1		2	E200.7	07/21/08 17:51/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	07/29/08 01:21/eli-c
Uranium	0.336	mg/L		0.0003		1	E200.8	07/29/08 01:21/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/21/08 17:51/eli-c
DATA QUALITY								
A/C Balance (± 5)	3.15	%				1	A1030 E	09/11/08 00:00/jmh
Anions	32.6	meq/L				1	A1030 E	09/11/08 00:00/jmh
Cations	34.7	meq/L				1	A1030 E	09/11/08 00:00/jmh
Solids, Total Dissolved Calculated	2110	mg/L				1	A1030 E	09/11/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.07					1	A1030 E	09/11/08 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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-005
 Client Sample ID: DewBurd GW690

Report Date: 09/12/08
 Collection Date: 07/07/08 18:10
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO ₃	38	mg/L		5		1	A2320 B	07/15/08 14:55/mb
Carbonate as CO ₃	7	mg/L		5		1	A2320 B	07/15/08 14:55/mb
Bicarbonate as HCO ₃	32	mg/L		5		1	A2320 B	07/15/08 14:55/mb
Calcium	42.1	mg/L		0.5		1	E200.7	07/22/08 15:55/eli-c
Chloride	30	mg/L		1		5	E300.0	07/12/08 00:49/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	07/08/08 23:15/jmh
Magnesium	25.4	mg/L		0.5		1	E200.7	07/22/08 15:55/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH ₃ G	07/14/08 14:38/jmh
Nitrogen, Nitrate as N	0.2	mg/L		0.1		1	E300.0	07/08/08 23:15/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/08/08 23:15/jmh
Potassium	14.0	mg/L		0.5		1	E200.7	07/22/08 15:55/eli-c
Silica	ND	mg/L		0.5		1	E200.7	07/22/08 15:55/eli-c
Sodium	342	mg/L		0.5		1	E200.7	07/22/08 15:55/eli-c
Sulfate	807	mg/L	D	3		50	E300.0	07/08/08 22:26/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2000	umhos/cm		5.0		1	A2510 B	07/10/08 09:52/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	07/11/08 00:00/kh
pH	9.27	s.u.		0.01		1	A4500-H B	07/10/08 11:07/tb
Sodium Adsorption Ratio (SAR)	10	unitless		0.10		1	Calculation	09/11/08 08:58/ADM
Solids, Total Dissolved TDS @ 180 C	1400	mg/L		5		1	A2540 C	07/11/08 14:28/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/24/08 08:16/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/24/08 08:16/eli-c
Barium	ND	mg/L		0.1		1	E200.8	07/24/08 08:16/eli-c
Boron	0.7	mg/L		0.1		1	E200.7	07/22/08 15:55/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/24/08 08:16/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	07/24/08 08:16/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/24/08 08:16/eli-c
Iron	ND	mg/L		0.03		1	E200.7	07/22/08 15:55/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/24/08 08:16/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	07/24/08 08:16/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/24/08 08:16/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	07/24/08 08:16/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	07/24/08 08:16/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	08/05/08 17:06/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/29/08 18:56/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/24/08 08:16/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070115-005
 Client Sample ID: DewBurd GW690

Report Date: 09/12/08
 Collection Date: 07/07/08 18:10
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/24/08 08:16/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/24/08 08:16/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	07/24/08 08:16/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/27/08 03:45/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/05/08 15:03/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/05/08 17:40/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	4.8	pCi/L	U			1	E900.0	08/09/08 12:18/eli-c
Gross Alpha precision (±)	3.6	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Alpha MDC	5.4	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Beta	6.1	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Beta precision (±)	3.4	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Beta MDC	5.5	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Lead 210	1.8	pCi/L	U			1	E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Polonium 210	0.7	pCi/L	U	1.0		1	RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008	08/21/08 17:30/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0	08/05/08 16:59/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	08/05/08 16:59/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/08/08 11:01/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	08/08/08 11:01/eli-c
Gross Gamma	1100	pCi/L		20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	210	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-5.7	pCi/L	U			1	E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.7	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	08/06/08 13:33/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/06/08 13:33/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	08/06/08 13:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070115-005
 Client Sample ID: DewBurd GW690

Report Date: 09/12/08
 Collection Date: 07/07/08 18:10
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	08/04/08 22:05/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	08/04/08 22:05/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	194	pCi/L		100		1 D5072-92	07/12/08 16:22/eli-c
Radon 222 precision (±)	50.0	pCi/L				1 D5072-92	07/12/08 16:22/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	07/29/08 03:03/eli-c
Arsenic	ND	mg/L		0.001		1 E200.8	07/29/08 03:03/eli-c
Barium	ND	mg/L		0.1		2 E200.7	07/21/08 18:07/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	07/29/08 03:03/eli-c
Boron	0.7	mg/L		0.1		2 E200.7	07/21/08 18:07/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	07/29/08 03:03/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	07/21/08 18:07/eli-c
Copper	ND	mg/L		0.01		2 E200.7	07/21/08 18:07/eli-c
Iron	1.48	mg/L		0.03		2 E200.7	07/21/08 18:07/eli-c
Lead	0.019	mg/L		0.001		1 E200.8	07/29/08 03:03/eli-c
Manganese	0.02	mg/L		0.01		2 E200.7	07/21/08 18:07/eli-c
Mercury	ND	mg/L		0.0002		1 E245.1	07/11/08 17:09/eli-b
Mercury	ND	mg/L		0.0001		1 E245.1	07/21/08 10:25/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	07/21/08 18:07/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	07/21/08 18:07/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	07/29/08 03:03/eli-c
Silver	ND	mg/L		0.005		1 E200.8	07/31/08 16:39/eli-c
Strontium	2.6	mg/L		0.1		2 E200.7	07/21/08 18:07/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	07/29/08 03:03/eli-c
Uranium	ND	mg/L		0.0003		1 E200.8	07/29/08 03:03/eli-c
Zinc	0.20	mg/L		0.01		2 E200.7	07/21/08 18:07/eli-c
DATA QUALITY							
A/C Balance (± 5)	2.66	%				1 A1030 E	09/11/08 00:00/jmh
Anions	18.4	meq/L				1 A1030 E	09/11/08 00:00/jmh
Cations	19.4	meq/L				1 A1030 E	09/11/08 00:00/jmh
Solids, Total Dissolved Calculated	1280	mg/L				1 A1030 E	09/11/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.09					1 A1030 E	09/11/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: R08070115-006
 Client Sample ID: DewBurd GW688

Report Date: 09/12/08
 Collection Date: 07/07/08 18:49
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	160	mg/L		5		1	A2320 B	07/15/08 14:58/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/15/08 14:58/mb
Bicarbonate as HCO3	190	mg/L		5		1	A2320 B	07/15/08 14:58/mb
Calcium	49.3	mg/L		0.5		1	E200.7	07/22/08 16:03/eli-c
Chloride	11	mg/L		1		1	E300.0	07/08/08 23:48/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	07/08/08 23:48/jmh
Magnesium	20.0	mg/L		0.5		1	E200.7	07/22/08 16:03/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	07/14/08 14:54/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/08/08 23:48/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/08/08 23:48/jmh
Potassium	15.6	mg/L		0.5		1	E200.7	07/22/08 16:03/eli-c
Silica	1.9	mg/L		0.5		1	E200.7	07/22/08 16:03/eli-c
Sodium	177	mg/L		0.5		1	E200.7	07/22/08 16:03/eli-c
Sulfate	413	mg/L	D	3		50	E300.0	07/08/08 23:32/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1170	umhos/cm		5.0		1	A2510 B	07/10/08 09:53/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	07/11/08 00:00/kh
pH	8.33	s.u.		0.01		1	A4500-H B	07/10/08 11:08/tb
Sodium Adsorption Ratio (SAR)	5.4	unitless		0.10		1	Calculation	09/11/08 08:58/ADM
Solids, Total Dissolved TDS @ 180 C	780	mg/L		5		1	A2540 C	07/11/08 14:29/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.7	07/22/08 16:03/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	07/26/08 05:08/eli-c
Barium	ND	mg/L		0.1		1	E200.8	07/26/08 05:08/eli-c
Boron	ND	mg/L		0.1		1	E200.7	07/22/08 16:03/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/26/08 05:08/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	07/26/08 05:08/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/26/08 05:08/eli-c
Iron	0.03	mg/L		0.03		1	E200.8	07/26/08 05:08/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/26/08 05:08/eli-c
Manganese	0.04	mg/L		0.01		1	E200.8	07/26/08 05:08/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/26/08 05:08/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	07/26/08 05:08/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	07/26/08 05:08/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	08/05/08 17:08/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/29/08 19:03/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/26/08 05:08/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070115-006
 Client Sample ID: DewBurd GW688

Report Date: 09/12/08
 Collection Date: 07/07/08 18:49
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/26/08 05:08/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/26/08 05:08/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	07/26/08 05:08/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/27/08 03:49/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/05/08 15:05/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/05/08 17:40/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	29.8	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Alpha precision (±)	4.1	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Alpha MDC	3.4	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Beta	14.1	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Beta precision (±)	2.3	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Beta MDC	3.5	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Lead 210	-0.4	pCi/L	U			1	E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Polonium 210	0.9	pCi/L	U	1.0		1	RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	0.88	pCi/L				1	RMO-3008	08/21/08 17:30/eli-c
Radium 226	6.7	pCi/L				1	E903.0	08/05/08 16:59/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	08/05/08 16:59/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/08/08 11:01/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	08/08/08 11:01/eli-c
Gross Gamma	990	pCi/L		20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	160	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-6	pCi/L	U			1	E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.7	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1	RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	08/06/08 13:33/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/06/08 13:33/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	08/06/08 13:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070115-006
 Client Sample ID: DewBurd GW688

Report Date: 09/12/08
 Collection Date: 07/07/08 18:49
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.1	pCi/L	U	0.2		E907.0	08/04/08 22:05/eli-c
Thorium 230 precision (±)	0.2	pCi/L				E907.0	08/04/08 22:05/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	227	pCi/L		100		D5072-92	07/12/08 17:13/eli-c
Radon 222 precision (±)	50.3	pCi/L				D5072-92	07/12/08 17:13/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		E200.8	07/29/08 03:09/eli-c
Arsenic	0.003	mg/L		0.001		E200.8	07/29/08 03:09/eli-c
Barium	ND	mg/L		0.1		E200.7	07/21/08 18:11/eli-c
Beryllium	ND	mg/L		0.001		E200.8	07/29/08 03:09/eli-c
Boron	ND	mg/L		0.1		E200.7	07/21/08 18:11/eli-c
Cadmium	ND	mg/L		0.005		E200.8	07/29/08 03:09/eli-c
Chromium	ND	mg/L		0.05		E200.7	07/21/08 18:11/eli-c
Copper	ND	mg/L		0.01		E200.7	07/21/08 18:11/eli-c
Iron	0.18	mg/L		0.03		E200.7	07/21/08 18:11/eli-c
Lead	ND	mg/L		0.001		E200.8	07/29/08 03:09/eli-c
Manganese	0.04	mg/L		0.01		E200.7	07/21/08 18:11/eli-c
Mercury	ND	mg/L		0.0002		E245.1	07/11/08 17:11/eli-b
Mercury	ND	mg/L		0.0001		E245.1	07/21/08 10:27/eli-b
Molybdenum	ND	mg/L		0.1		E200.7	07/21/08 18:11/eli-c
Nickel	ND	mg/L		0.05		E200.7	07/21/08 18:11/eli-c
Selenium	ND	mg/L		0.001		E200.8	07/29/08 03:09/eli-c
Silver	ND	mg/L		0.005		E200.8	07/31/08 16:46/eli-c
Strontium	1.4	mg/L		0.1		E200.7	07/21/08 18:11/eli-c
Thallium	ND	mg/L		0.001		E200.8	07/29/08 03:09/eli-c
Uranium	ND	mg/L		0.0003		E200.8	07/29/08 03:09/eli-c
Zinc	ND	mg/L		0.01		E200.7	07/21/08 18:11/eli-c
DATA QUALITY							
A/C Balance (± 5)	0.430	%				A1030 E	09/11/08 00:00/jmh
Anions	12.1	meq/L				A1030 E	09/11/08 00:00/jmh
Cations	12.2	meq/L				A1030 E	09/11/08 00:00/jmh
Solids, Total Dissolved Calculated	788	mg/L				A1030 E	09/11/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.990					A1030 E	09/11/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: R08070115-007
 Client Sample ID: DewBurd GW686

Report Date: 09/12/08
 Collection Date: 07/07/08 19:03
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	42	mg/L		5		1	A2320 B	07/15/08 15:01/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/15/08 15:01/mb
Bicarbonate as HCO3	51	mg/L		5		1	A2320 B	07/15/08 15:01/mb
Calcium	150	mg/L		0.5		1	E200.7	07/22/08 16:08/eli-c
Chloride	13	mg/L		1		1	E300.0	07/09/08 00:21/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	07/09/08 00:21/jmh
Magnesium	49.5	mg/L		0.5		1	E200.7	07/22/08 16:08/eli-c
Nitrogen, Ammonia as N	0.6	mg/L		0.1		1	A4500-NH3 G	07/14/08 14:55/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/09/08 00:21/jmh
Nitrogen, Nitrite as N	0.1	mg/L		0.1		1	E300.0	07/09/08 00:21/jmh
Potassium	27.7	mg/L		0.5		1	E200.7	07/22/08 16:08/eli-c
Silica	1.7	mg/L		0.5		1	E200.7	07/22/08 16:08/eli-c
Sodium	176	mg/L		0.5		1	E200.7	07/22/08 16:08/eli-c
Sulfate	812	mg/L	D	3		50	E300.0	07/09/08 00:04/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1720	umhos/cm		5.0		1	A2510 B	07/10/08 09:54/tb
Oxidation-Reduction Potential	210	mV				1	A2580 B	07/11/08 00:00/kh
pH	8.68	s.u.		0.01		1	A4500-H B	07/10/08 11:09/tb
Sodium Adsorption Ratio (SAR)	3.2	unitless		0.10		1	Calculation	09/11/08 08:58/ADM
Solids, Total Dissolved TDS @ 180 C	1300	mg/L		5		1	A2540 C	07/14/08 14:54/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.7	07/22/08 16:08/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	07/26/08 05:15/eli-c
Barium	ND	mg/L		0.1		1	E200.7	07/22/08 16:08/eli-c
Boron	ND	mg/L		0.1		1	E200.7	07/22/08 16:08/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/29/08 19:10/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	07/29/08 19:10/eli-c
Copper	ND	mg/L		0.01		1	E200.7	07/22/08 16:08/eli-c
Iron	ND	mg/L		0.03		1	E200.7	07/22/08 16:08/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/26/08 05:15/eli-c
Manganese	0.03	mg/L		0.01		1	E200.8	07/29/08 19:10/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/26/08 05:15/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.7	07/22/08 16:08/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	07/29/08 19:10/eli-c
Selenium	0.002	mg/L		0.001		1	A3114 B	08/05/08 17:15/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/29/08 19:10/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/26/08 05:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070115-007
 Client Sample ID: DewBurd GW686

Report Date: 09/12/08
 Collection Date: 07/07/08 19:03
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0012	mg/L		0.0003		1	E200.8	07/26/08 05:15/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/29/08 19:10/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	07/29/08 19:10/eli-c
METALS - SUSPENDED								
Uranium	0.0004	mg/L		0.0003		1	E200.8	07/27/08 03:53/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/05/08 15:15/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	08/05/08 17:40/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	11.3	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Gross Alpha precision (±)	3.4	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Gross Alpha MDC	4.2	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Gross Beta	16.4	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Gross Beta precision (±)	3.6	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Gross Beta MDC	5.6	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Lead 210	6.1	pCi/L	U			1	E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	4.8	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	0.52	pCi/L				1	RMO-3008	08/21/08 17:30/eli-c
Radium 226	3.3	pCi/L				1	E903.0	08/05/08 16:59/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/05/08 16:59/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/08/08 11:01/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	08/08/08 11:01/eli-c
Gross Gamma	1000	pCi/L		20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	180	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-2.3	pCi/L	U			1	E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.7	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.37	pCi/L				1	RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	08/06/08 13:33/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/06/08 13:33/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	08/06/08 13:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070115-007
 Client Sample ID: DewBurd GW686

Report Date: 09/12/08
 Collection Date: 07/07/08 19:03
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/04/08 22:05/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	08/04/08 22:05/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	467	pCi/L		100		1	D5072-92	07/12/08 18:03/eli-c
Radon 222 precision (±)	53.4	pCi/L				1	D5072-92	07/12/08 18:03/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	07/29/08 03:16/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/29/08 03:16/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/21/08 18:15/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	07/29/08 03:16/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/21/08 18:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/29/08 03:16/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/21/08 18:15/eli-c
Copper	ND	mg/L		0.01		2	E200.7	07/21/08 18:15/eli-c
Iron	0.07	mg/L		0.03		2	E200.7	07/21/08 18:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/29/08 03:16/eli-c
Manganese	0.06	mg/L		0.01		2	E200.7	07/21/08 18:15/eli-c
Mercury	ND	mg/L		0.0002		1	E245.1	07/11/08 17:14/eli-b
Mercury	ND	mg/L		0.0001		1	E245.1	07/21/08 10:30/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	07/21/08 18:15/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/21/08 18:15/eli-c
Selenium	0.008	mg/L		0.001		1	E200.8	07/29/08 03:16/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/31/08 17:20/eli-c
Strontium	4.4	mg/L		0.1		2	E200.7	07/21/08 18:15/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	07/29/08 03:16/eli-c
Uranium	0.0072	mg/L		0.0003		1	E200.8	07/29/08 03:16/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/21/08 18:15/eli-c
DATA QUALITY								
A/C Balance (± 5)	4.80	%				1	A1030 E	09/11/08 00:00/jmh
Anions	18.1	meq/L				1	A1030 E	09/11/08 00:00/jmh
Cations	20.0	meq/L				1	A1030 E	09/11/08 00:00/jmh
Solids, Total Dissolved Calculated	1260	mg/L				1	A1030 E	09/11/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.00					1	A1030 E	09/11/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080715A-ALK-SEL-W		
Sample ID: LCS1_080715A Alkalinity, Total as CaCO3	Laboratory Control Sample 952	mg/L	5.0	95	90	110			07/15/08 14:16
Sample ID: MBLK1_080715A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						07/15/08 14:17
Sample ID: R08070130-003AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 218	mg/L	5.0	96	80	120			07/15/08 15:23
Sample ID: R08070130-003AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 218	mg/L	5.0	96	80	120	0	10	07/15/08 15:26
Method: A2510 B							Batch: 080710_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080710 Conductivity @ 25 C	Laboratory Control Sample 1440	umhos/cm	5.0	102	90	110			07/10/08 09:29
Sample ID: LCS1-1_080710 Conductivity @ 25 C	Laboratory Control Sample 157	umhos/cm	5.0	101	90	110			07/10/08 09:29
Sample ID: LCS2-1_080710 Conductivity @ 25 C	Laboratory Control Sample 5060	umhos/cm	5.0	101	90	110			07/10/08 09:31
Sample ID: MBLK-1_080710 Conductivity @ 25 C	Method Blank 5	umhos/cm	5						07/10/08 09:40
Sample ID: R08070115-007ADUP Conductivity @ 25 C	Sample Duplicate 1750	umhos/cm	5.0				1.7	10	07/10/08 09:55
Method: A2540 C							Batch: 080710A-SLDS-TDS-W		
Sample ID: LCS1_080710A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 210	mg/L	5.0	103	90	110			07/11/08 13:11
Sample ID: MBLK1_080710A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						07/11/08 13:12
Sample ID: R08070104-010AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 380	mg/L	5.0	99	80	120			07/11/08 13:19
Sample ID: R08070104-010AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 380	mg/L	5.0	99	80	120	0	10	07/11/08 13:19
Sample ID: R08070130-003AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 440	mg/L	5.0	108	80	120			07/14/08 14:57
Sample ID: R08070130-003AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 440	mg/L	5.0	107	80	120	0.5	10	07/14/08 14:57

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080711-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND1-R_080711A		07/11/08 00:00		
Oxidation-Reduction Potential	470	mV		99	95	105			
Sample ID: R08070115-007F	Sample Duplicate				Run: PH_COND1-R_080711A		07/11/08 00:00		
Oxidation-Reduction Potential	200	mV					2	10	
Method: A3114 B							Batch: C_SE3114-080805B		
Sample ID: MBLK	Method Blank				Run: SUB-C105358		08/05/08 14:47		
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-114-6	Laboratory Control Sample				Run: SUB-C105358		08/05/08 14:49		
Selenium-IV	0.050	mg/L	0.0010	99	90	110			
Sample ID: R08070115-001E	Sample Matrix Spike				Run: SUB-C105358		08/05/08 14:53		
Selenium-IV	0.052	mg/L	0.0010	103	85	115			
Sample ID: R08070115-001E	Sample Matrix Spike Duplicate				Run: SUB-C105358		08/05/08 14:55		
Selenium-IV	0.052	mg/L	0.0010	103	85	115	0	10	
Sample ID: C08070631-001CMS	Sample Matrix Spike				Run: SUB-C105358		08/05/08 15:22		
Selenium-IV	0.046	mg/L	0.0010	92	85	115			
Sample ID: C08070631-001CMSD	Sample Matrix Spike Duplicate				Run: SUB-C105358		08/05/08 15:24		
Selenium-IV	0.046	mg/L	0.0010	93	85	115	0.9	10	
Method: A3114 B							Batch: C_SE3114-080805C		
Sample ID: MBLK	Method Blank				Run: SUB-C105366		08/05/08 16:49		
Selenium	ND	mg/L	6E-05						
Sample ID: 288-114-6	Laboratory Control Sample				Run: SUB-C105366		08/05/08 16:51		
Selenium	0.050	mg/L	0.0010	99	90	110			
Sample ID: R08070115-001E	Sample Matrix Spike				Run: SUB-C105366		08/05/08 16:56		
Selenium	0.053	mg/L	0.0010	102	85	115			
Sample ID: R08070115-001E	Sample Matrix Spike Duplicate				Run: SUB-C105366		08/05/08 16:58		
Selenium	0.054	mg/L	0.0010	104	85	115	1.1	10	
Method: A4500-H B							Batch: 080710_1-PH-W		
Sample ID: LCS_pH-1_080710	Laboratory Control Sample				Run: PH_COND2-R_080710B		07/10/08 11:01		
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: 09/12/08
 Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-07-14_2_NH3_01		
Sample ID: MBLK-2	Method Blank								
Nitrogen, Ammonia as N	ND	mg/L	0.01						
						Run: TECHAA2-R_080714A			07/14/08 12:01
Sample ID: LFB-3	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.27	mg/L	0.10	107	90	110			07/14/08 12:33
						Run: TECHAA2-R_080714A			07/14/08 12:54
Sample ID: LFB-4	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.22	mg/L	0.10	89	90	110			S
						Run: TECHAA2-R_080714A			07/14/08 14:39
Sample ID: R08070115-005BMS	Sample Matrix Spike								
Nitrogen, Ammonia as N	0.61	mg/L	0.10	107	80	120			07/14/08 14:39
						Run: TECHAA2-R_080714A			07/14/08 14:40
Sample ID: R08070115-005BMSD	Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N	0.57	mg/L	0.10	90	80	120	7.1	10	07/14/08 14:40
Method: D5072-92							Batch: C_R104163		
Sample ID: R08070115-001G	Sample Duplicate								
Radon 222	520000	pCi/L	100				13	30	07/12/08 12:58
						Run: SUB-C104163			07/12/08 01:21
Sample ID: MB-R104163	Method Blank								
Radon 222	20	pCi/L							07/12/08 01:21
						Run: SUB-C104163			07/12/08 02:16
Sample ID: LCS-R104163	Laboratory Control Sample								
Radon 222	303	pCi/L	100	91	70	130			07/12/08 02:16

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

Report Date: 09/12/08

Project: Edgemont

Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19130		
Sample ID: MB-19130	Method Blank			Run: SUB-C104583			07/21/08 17:27		
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						
Strontium	ND	mg/L	0.0004						
Zinc	0.002	mg/L	0.001						
Sample ID: LCS3-19130	Laboratory Control Sample			Run: SUB-C104583			07/21/08 17:31		
Barium	0.511	mg/L	0.10	102	85	115			
Boron	0.504	mg/L	0.10	101	85	115			
Chromium	0.512	mg/L	0.050	102	85	115			
Copper	0.512	mg/L	0.010	102	85	115			
Iron	2.60	mg/L	0.030	104	85	115			
Manganese	2.55	mg/L	0.010	102	85	115			
Molybdenum	0.502	mg/L	0.10	100	85	115			
Nickel	0.506	mg/L	0.050	101	85	115			
Strontium	0.519	mg/L	0.10	104	85	115			
Zinc	0.517	mg/L	0.010	103	85	115			
Sample ID: C08070562-001HMS3	Sample Matrix Spike			Run: SUB-C104583			07/21/08 18:32		
Barium	0.543	mg/L	0.10	104	70	130			
Boron	0.716	mg/L	0.10	104	70	130			
Chromium	0.511	mg/L	0.050	102	70	130			
Copper	0.517	mg/L	0.010	103	70	130			
Iron	3.71	mg/L	0.030	103	70	130			
Manganese	2.67	mg/L	0.010	103	70	130			
Molybdenum	0.499	mg/L	0.10	100	70	130			
Nickel	0.511	mg/L	0.050	102	70	130			
Strontium	1.71	mg/L	0.10	97	70	130			
Zinc	0.529	mg/L	0.010	104	70	130			
Sample ID: C08070562-001HMSD3	Sample Matrix Spike Duplicate			Run: SUB-C104583			07/21/08 18:36		
Barium	0.531	mg/L	0.10	101	70	130	2.2	20	
Boron	0.715	mg/L	0.10	104	70	130	0.1	20	
Chromium	0.505	mg/L	0.050	101	70	130	1.2	20	
Copper	0.511	mg/L	0.010	102	70	130	1.2	20	
Iron	3.72	mg/L	0.030	104	70	130	0.2	20	
Manganese	2.62	mg/L	0.010	101	70	130	1.8	20	
Molybdenum	0.508	mg/L	0.10	102	70	130	1.9	20	
Nickel	0.506	mg/L	0.050	101	70	130	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: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19130		
Sample ID: C08070562-001HMSD3	Sample Matrix Spike Duplicate			Run: SUB-C104583			07/21/08 18:36		
Strontium	1.76	mg/L	0.10	107	70	130	2.7	20	
Zinc	0.518	mg/L	0.010	102	70	130	2.1	20	
Method: E200.7							Batch: C_R104679		
Sample ID: MB-080722	Method Blank			Run: SUB-C104679			07/22/08 11:40		
Aluminum	0.1	mg/L	0.0001						
Boron	0.06	mg/L	0.02						
Copper	0.004	mg/L	6E-05						
Iron	0.2	mg/L	0.005						
Molybdenum	ND	mg/L	0.0001						
Calcium	0.7	mg/L	0.04						
Magnesium	0.6	mg/L	0.06						
Potassium	0.6	mg/L	0.05						
Silica	ND	mg/L	0.1						
Sodium	ND	mg/L	0.07						
Sample ID: R08070115-004C	Sample Matrix Spike			Run: SUB-C104679			07/22/08 15:46		
Aluminum	0.561	mg/L	0.10	112	70	130			
Boron	0.657	mg/L	0.10	99	70	130			
Copper	0.553	mg/L	0.010	109	70	130			
Iron	0.941	mg/L	0.031	94	70	130			
Molybdenum	0.548	mg/L	0.10	110	70	130			
Sample ID: R08070115-004C	Sample Matrix Spike Duplicate			Run: SUB-C104679			07/22/08 15:51		
Aluminum	0.544	mg/L	0.10	109	70	130	3.1	20	
Boron	0.649	mg/L	0.10	98	70	130	1.2	20	
Copper	0.541	mg/L	0.010	107	70	130	2.2	20	
Iron	0.933	mg/L	0.031	93	70	130	0.9	20	
Molybdenum	0.530	mg/L	0.10	106	70	130	3.3	20	
Sample ID: C08070893-002BDUP	Sample Duplicate			Run: SUB-C104679			07/23/08 01:34		
Aluminum	0.0270	mg/L	0.10				0	20	
Boron	ND	mg/L	0.10				0	20	
Copper	ND	mg/L	0.010				0	20	
Iron	ND	mg/L	0.030				0	20	
Molybdenum	ND	mg/L	0.10				0	20	
Calcium	0.149	mg/L	1.0				0	20	
Magnesium	ND	mg/L	1.0				0	20	
Potassium	0.551	mg/L	1.0				0	20	
Silica	ND	mg/L	0.10						
Sodium	0.164	mg/L	1.0				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: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R104799		
Sample ID: MB-080724A	Method Blank			Run: SUB-C104799			07/24/08 13:13		
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
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						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Silver	ND	mg/L	0.006						
Sodium	ND	mg/L	0.8						
Vanadium	ND	mg/L	0.003						
Sample ID: LFB-080724A	Laboratory Fortified Blank			Run: SUB-C104799			07/24/08 13:17		
Silica	0.39	mg/L	0.10	99	85	125			
Aluminum	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	105	85	125			
Iron	1.1	mg/L	0.030	109	85	125			
Magnesium	54	mg/L	0.50	108	85	125			
Nickel	1.0	mg/L	0.050	104	85	125			
Potassium	46	mg/L	0.50	93	85	125			
Silver	1.0	mg/L	0.010	102	85	125			
Sodium	50	mg/L	0.77	99	85	125			
Vanadium	1.1	mg/L	0.10	106	85	125			
Sample ID: C08070339-001JMS2	Sample Matrix Spike			Run: SUB-C104799			07/24/08 17:19		
Aluminum	1.95	mg/L	0.10	98	70	130			
Boron	2.25	mg/L	0.10	103	70	130			
Chromium	2.05	mg/L	0.050	102	70	130			
Iron	2.13	mg/L	0.030	106	70	130			
Nickel	2.02	mg/L	0.050	101	70	130			
Silver	2.00	mg/L	0.012	100	70	130			
Vanadium	2.17	mg/L	0.10	108	70	130			
Calcium	263	mg/L	1.0	103	70	130			
Magnesium	153	mg/L	1.0	103	70	130			
Potassium	105	mg/L	1.0	90	70	130			
Silica	7.85	mg/L	0.10		70	130			A
Sodium	144	mg/L	1.5	99	70	130			
Sample ID: C08070339-001JMSD2	Sample Matrix Spike Duplicate			Run: SUB-C104799			07/24/08 17:23		
Aluminum	1.97	mg/L	0.10	98	70	130	0.8	20	
Boron	2.23	mg/L	0.10	102	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R104799		
Sample ID: C08070339-001JMSD2	Sample Matrix Spike Duplicate			Run: SUB-C104799			07/24/08 17:23		
Chromium	2.02	mg/L	0.050	101	70	130	1.5	20	
Iron	2.10	mg/L	0.030	105	70	130	1.3	20	
Nickel	1.98	mg/L	0.050	99	70	130	1.7	20	
Silver	2.00	mg/L	0.012	100	70	130	0.1	20	
Vanadium	2.07	mg/L	0.10	103	70	130	4.5	20	
Calcium	259	mg/L	1.0	99	70	130	1.5	20	
Magnesium	150	mg/L	1.0	100	70	130	1.8	20	
Potassium	106	mg/L	1.0	90	70	130	0.6	20	
Silica	7.77	mg/L	0.10		70	130	1	20	A
Sodium	141	mg/L	1.5	97	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19130		
Sample ID: MB-19130	Method Blank			Run: SUB-C104980			07/28/08 12:37		
Antimony	0.0003	mg/L	0.0002						
Arsenic	0.0005	mg/L	5E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Lead	ND	mg/L	5E-05						
Selenium	0.0003	mg/L	0.0002						
Silver	5E-05	mg/L	4E-05						
Thallium	ND	mg/L	3E-05						
Uranium	0.0002	mg/L	3E-05						
Sample ID: LCS3-19130	Laboratory Control Sample			Run: SUB-C104980			07/28/08 12:44		
Antimony	0.53	mg/L	0.0018	106	85	115			
Arsenic	0.52	mg/L	0.0010	105	85	115			
Beryllium	0.26	mg/L	0.0011	103	85	115			
Cadmium	0.26	mg/L	0.0010	102	85	115			
Lead	0.51	mg/L	0.0010	102	85	115			
Selenium	0.51	mg/L	0.0020	103	85	115			
Silver	0.048	mg/L	0.0010	96	85	115			
Thallium	0.50	mg/L	0.0010	101	85	115			
Uranium	0.52	mg/L	0.00032	104	85	115			
Sample ID: C08070562-001HMS3	Sample Matrix Spike			Run: SUB-C104980			07/28/08 13:59		
Antimony	0.61	mg/L	0.0010	122	70	130			
Arsenic	0.54	mg/L	0.0010	106	70	130			
Beryllium	0.27	mg/L	0.0010	107	70	130			
Cadmium	0.27	mg/L	0.0010	106	70	130			
Lead	0.57	mg/L	0.0010	113	70	130			
Selenium	0.50	mg/L	0.0010	101	70	130			
Silver	0.050	mg/L	0.0010	100	70	130			
Thallium	0.57	mg/L	0.0010	113	70	130			
Uranium	0.63	mg/L	0.00030	60	70	130			S
Sample ID: C08070562-001HMSD3	Sample Matrix Spike Duplicate			Run: SUB-C104980			07/28/08 14:06		
Antimony	0.59	mg/L	0.0010	119	70	130	3	20	
Arsenic	0.52	mg/L	0.0010	103	70	130	3.3	20	
Beryllium	0.26	mg/L	0.0010	104	70	130	3.3	20	
Cadmium	0.26	mg/L	0.0010	103	70	130	2.8	20	
Lead	0.55	mg/L	0.0010	110	70	130	2.5	20	
Selenium	0.48	mg/L	0.0010	97	70	130	4	20	
Silver	0.048	mg/L	0.0010	96	70	130	4	20	
Thallium	0.54	mg/L	0.0010	108	70	130	4.8	20	
Uranium	0.60	mg/L	0.00030	58	70	130	3.8	20	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: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_19224
Sample ID: MB-19224 Uranium	Method Blank 2E-05	mg/L							Run: SUB-C104868 07/27/08 03:08
Sample ID: LCS1-19224 Uranium	Laboratory Control Sample 0.0471	mg/L	0.00030	90	80	120			Run: SUB-C104868 07/27/08 03:12
Sample ID: C08070737-009IMS4 Uranium	Post Digestion Spike 0.0115	mg/L	0.00030	92	70	130			Run: SUB-C104868 07/27/08 04:50
Sample ID: C08070737-009IMS4 Uranium	Post Digestion Spike Duplicate 0.0115	mg/L	0.00030	91	70	130	0.6	20	Run: SUB-C104868 07/27/08 04:54

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070115

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						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	3E-06						
Chromium	ND	mg/L	4E-05						
Copper	ND	mg/L	3E-05						
Lead	ND	mg/L	3E-06						
Manganese	ND	mg/L	6E-06						
Mercury	ND	mg/L	1E-05						
Molybdenum	ND	mg/L	9E-06						
Nickel	ND	mg/L	3E-05						
Uranium	4E-06	mg/L	2E-06						
Vanadium	ND	mg/L	3E-05						
Zinc	0.0001	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			
Barium	0.0490	mg/L	0.0010	98	85	115			
Cadmium	0.0506	mg/L	0.0010	101	85	115			
Chromium	0.0503	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			
Manganese	0.0495	mg/L	0.0010	99	85	115			
Mercury	0.00498	mg/L	0.0010	100	85	115			
Molybdenum	0.0497	mg/L	0.0010	99	85	115			
Nickel	0.0499	mg/L	0.0010	100	85	115			
Uranium	0.0488	mg/L	0.00030	98	85	115			
Vanadium	0.0492	mg/L	0.0010	98	85	115			
Zinc	0.0533	mg/L	0.0010	106	85	115			
Sample ID: R08070115-005C	Post Digestion Spike			Run: SUB-C104758			07/24/08 08:23		
Aluminum	0.0537	mg/L	0.10	105	70	130			
Arsenic	0.0485	mg/L	0.0010	97	70	130			
Barium	0.0765	mg/L	0.10	96	70	130			
Cadmium	0.0455	mg/L	0.010	91	70	130			
Chromium	0.0460	mg/L	0.050	92	70	130			
Copper	0.0480	mg/L	0.010	95	70	130			
Lead	0.0490	mg/L	0.050	98	70	130			
Manganese	0.0553	mg/L	0.010	95	70	130			
Mercury	0.00565	mg/L	0.0010	113	70	130			
Molybdenum	0.0565	mg/L	0.10	96	70	130			
Nickel	0.0473	mg/L	0.050	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: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104758		
Sample ID: R08070115-005C	Post Digestion Spike			Run: SUB-C104758			07/24/08 08:23		
Thorium 232	0.0490	mg/L	0.0010	98	70	130			
Uranium	0.0489	mg/L	0.00030	98	70	130			
Vanadium	0.0475	mg/L	0.10	95	70	130			
Zinc	0.0476	mg/L	0.010	93	70	130			
Sample ID: R08070115-005C	Post Digestion Spike Duplicate			Run: SUB-C104758			07/24/08 08:30		
Aluminum	0.0549	mg/L	0.10	107	70	130	0	20	
Arsenic	0.0484	mg/L	0.0010	97	70	130	0.3	20	
Barium	0.0764	mg/L	0.10	96	70	130	0	20	
Cadmium	0.0459	mg/L	0.010	92	70	130	0.9	20	
Chromium	0.0463	mg/L	0.050	93	70	130	0	20	
Copper	0.0484	mg/L	0.010	96	70	130	0.9	20	
Lead	0.0491	mg/L	0.050	98	70	130	0	20	
Manganese	0.0556	mg/L	0.010	95	70	130	0.6	20	
Mercury	0.00533	mg/L	0.0010	106	70	130	5.9	20	
Molybdenum	0.0569	mg/L	0.10	96	70	130	0	20	
Nickel	0.0479	mg/L	0.050	96	70	130	0	20	
Thorium 232	0.0494	mg/L	0.0010	99	70	130	1	20	
Uranium	0.0493	mg/L	0.00030	98	70	130	0.8	20	
Vanadium	0.0481	mg/L	0.10	96	70	130	0	20	
Zinc	0.0493	mg/L	0.010	96	70	130	3.5	20	
Sample ID: LRB	Method Blank			Run: SUB-C104758			07/23/08 12:27		
Thorium 232	3E-05	mg/L							
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C104758			07/23/08 12:34		
Thorium 232	0.0485	mg/L	0.0010	97	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: 09/12/08
 Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104869		
Sample ID: LRB	Method Blank			Run: SUB-C104869			07/25/08 17:21		
Arsenic	ND	mg/L	4E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	3E-06						
Chromium	ND	mg/L	4E-05						
Copper	ND	mg/L	3E-05						
Iron	ND	mg/L	0.0002						
Lead	ND	mg/L	3E-06						
Manganese	ND	mg/L	6E-06						
Mercury	8E-05	mg/L	1E-05						
Molybdenum	ND	mg/L	9E-06						
Nickel	ND	mg/L	3E-05						
Uranium	ND	mg/L	2E-06						
Vanadium	ND	mg/L	3E-05						
Zinc	0.0002	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C104869			07/25/08 17:28		
Arsenic	0.0515	mg/L	0.0010	103	85	115			
Barium	0.0513	mg/L	0.0010	102	85	115			
Cadmium	0.0510	mg/L	0.0010	102	85	115			
Chromium	0.0515	mg/L	0.0010	103	85	115			
Copper	0.0520	mg/L	0.0010	104	85	115			
Iron	1.30	mg/L	0.0010	87	85	115			
Lead	0.0514	mg/L	0.0010	103	85	115			
Manganese	0.0516	mg/L	0.0010	103	85	115			
Mercury	0.00522	mg/L	0.0010	103	85	115			
Molybdenum	0.0492	mg/L	0.0010	98	85	115			
Nickel	0.0514	mg/L	0.0010	103	85	115			
Uranium	0.0473	mg/L	0.00030	95	85	115			
Vanadium	0.0513	mg/L	0.0010	102	85	115			
Zinc	0.0545	mg/L	0.0010	109	85	115			
Sample ID: R08070115-001C	Post Digestion Spike			Run: SUB-C104869			07/26/08 02:58		
Arsenic	0.0487	mg/L	0.0010	93	70	130			
Barium	0.0884	mg/L	0.10	100	70	130			
Cadmium	0.0498	mg/L	0.010	100	70	130			
Chromium	0.0436	mg/L	0.050	87	70	130			
Copper	0.0444	mg/L	0.010	89	70	130			
Iron	1.19	mg/L	0.030	373	70	130			S
Lead	0.0503	mg/L	0.050	100	70	130			
Manganese	0.202	mg/L	0.010	103	70	130			
Mercury	0.00503	mg/L	0.0010	101	70	130			
Molybdenum	0.0509	mg/L	0.10	100	70	130			
Nickel	0.0464	mg/L	0.050	89	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: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104869		
Sample ID: R08070115-001C	Post Digestion Spike			Run: SUB-C104869			07/26/08 02:58		
Thorium 232	0.0536	mg/L	0.0010	107	70	130			
Uranium	0.0663	mg/L	0.00030	108	70	130			
Vanadium	0.0461	mg/L	0.10	92	70	130			
Zinc	0.0480	mg/L	0.010	92	70	130			
Sample ID: R08070115-001C	Post Digestion Spike Duplicate			Run: SUB-C104869			07/26/08 03:04		
Arsenic	0.0497	mg/L	0.0010	95	70	130	2.2	20	
Barium	0.0901	mg/L	0.10	103	70	130	0	20	
Cadmium	0.0513	mg/L	0.010	103	70	130	3	20	
Chromium	0.0451	mg/L	0.050	90	70	130	0	20	
Copper	0.0458	mg/L	0.010	91	70	130	3	20	
Iron	1.20	mg/L	0.030	378	70	130	1.3	20	S
Lead	0.0526	mg/L	0.050	105	70	130	4.4	20	
Manganese	0.203	mg/L	0.010	106	70	130	0.6	20	
Mercury	0.00528	mg/L	0.0010	106	70	130	4.8	20	
Molybdenum	0.0530	mg/L	0.10	104	70	130	0	20	
Nickel	0.0475	mg/L	0.050	91	70	130	0	20	
Thorium 232	0.0558	mg/L	0.0010	112	70	130	4	20	
Uranium	0.0682	mg/L	0.00030	111	70	130	2.8	20	
Vanadium	0.0473	mg/L	0.10	95	70	130	0	20	
Zinc	0.0498	mg/L	0.010	95	70	130	3.8	20	
Sample ID: C08070597-001AMS4	Post Digestion Spike			Run: SUB-C104869			07/26/08 06:13		
Arsenic	0.0519	mg/L	0.0010	103	70	130			
Barium	0.0621	mg/L	0.10	103	70	130			
Cadmium	0.0476	mg/L	0.010	93	70	130			
Chromium	0.0502	mg/L	0.050	100	70	130			
Copper	0.0480	mg/L	0.010	95	70	130			
Iron	1.30	mg/L	0.030	406	70	130			S
Lead	0.0508	mg/L	0.050	101	70	130			
Manganese	2.21	mg/L	0.010		70	130			A
Mercury	0.00560	mg/L	0.0010	111	70	130			
Molybdenum	0.0566	mg/L	0.10	103	70	130			
Nickel	0.0622	mg/L	0.050	96	70	130			
Thorium 232	0.0541	mg/L	0.0010	108	70	130			
Uranium	0.116	mg/L	0.00030	101	70	130			
Vanadium	0.0515	mg/L	0.10	103	70	130			
Zinc	0.0552	mg/L	0.010	93	70	130			
Sample ID: C08070597-001AMSD4	Post Digestion Spike Duplicate			Run: SUB-C104869			07/26/08 06:20		
Arsenic	0.0492	mg/L	0.0010	98	70	130	5.3	20	
Barium	0.0620	mg/L	0.10	103	70	130	0	20	
Cadmium	0.0482	mg/L	0.010	95	70	130	1.3	20	
Chromium	0.0462	mg/L	0.050	92	70	130	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: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104869		
Sample ID: C08070597-001AMSD4	Post Digestion Spike Duplicate			Run: SUB-C104869			07/26/08 06:20		
Copper	0.0452	mg/L	0.010	90	70	130	6	20	
Iron	1.42	mg/L	0.030	442	70	130	8.3	20	S
Lead	0.0511	mg/L	0.050	102	70	130	0.6	20	
Manganese	2.20	mg/L	0.010		70	130	0.1	20	A
Mercury	0.00559	mg/L	0.0010	110	70	130	0.3	20	
Molybdenum	0.0572	mg/L	0.10	104	70	130	0	20	
Nickel	0.0623	mg/L	0.050	96	70	130	0.2	20	
Thorium 232	0.0550	mg/L	0.0010	109	70	130	1.5	20	
Uranium	0.117	mg/L	0.00030	103	70	130	0.9	20	
Vanadium	0.0484	mg/L	0.10	97	70	130	0	20	
Zinc	0.0495	mg/L	0.010	82	70	130	11	20	
Sample ID: LRB	Method Blank			Run: SUB-C104869			07/25/08 17:21		
Thorium 232	4E-05	mg/L							
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C104869			07/25/08 17:28		
Thorium 232	0.0473	mg/L	0.0010	95	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

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

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R105057		
Sample ID: LRB	Method Blank			Run: SUB-C105057			07/29/08 12:44		
Cadmium	ND	mg/L	1E-05						
Chromium	ND	mg/L	4E-05						
Manganese	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	ND	mg/L	3E-05						
Vanadium	4E-05	mg/L	3E-05						
Zinc	ND	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C105057			07/29/08 12:51		
Cadmium	0.0498	mg/L	0.0010	100	85	115			
Chromium	0.0483	mg/L	0.0010	97	85	115			
Manganese	0.0486	mg/L	0.0010	97	85	115			
Nickel	0.0495	mg/L	0.0010	99	85	115			
Silver	0.0194	mg/L	0.0010	97	85	115			
Vanadium	0.0488	mg/L	0.0010	97	85	115			
Zinc	0.0508	mg/L	0.0010	102	85	115			
Sample ID: C08070597-004AMS4	Post Digestion Spike			Run: SUB-C105057			07/29/08 20:11		
Cadmium	0.0509	mg/L	0.010	102	70	130			
Chromium	0.0509	mg/L	0.050	101	70	130			
Manganese	0.0528	mg/L	0.010	101	70	130			
Nickel	0.0495	mg/L	0.050	97	70	130			
Silver	0.0121	mg/L	0.010	61	70	130			S
Vanadium	0.0515	mg/L	0.10	102	70	130			
Zinc	0.0755	mg/L	0.010	104	70	130			
Sample ID: C08070597-004AMSD4	Post Digestion Spike Duplicate			Run: SUB-C105057			07/29/08 20:18		
Cadmium	0.0504	mg/L	0.010	101	70	130	1	20	
Chromium	0.0486	mg/L	0.050	96	70	130	0	20	
Manganese	0.0502	mg/L	0.010	96	70	130	4.9	20	
Nickel	0.0487	mg/L	0.050	96	70	130	0	20	
Silver	0.0134	mg/L	0.010	67	70	130	9.6	20	S
Vanadium	0.0483	mg/L	0.10	96	70	130	0	20	
Zinc	0.0736	mg/L	0.010	100	70	130	2.5	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: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: B_33468		
Sample ID: MB-33468	Method Blank								Run: SUB-B113943 07/11/08 15:24
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33468	Laboratory Fortified Blank								Run: SUB-B113943 07/11/08 15:36
Mercury	0.0040	mg/L	0.0010	100	85	115			
Sample ID: B08070660-001HMS	Sample Matrix Spike								Run: SUB-B113943 07/11/08 15:41
Mercury	0.0041	mg/L	0.0010	102	70	130			
Sample ID: B08070660-001HMSD	Sample Matrix Spike Duplicate								Run: SUB-B113943 07/11/08 15:43
Mercury	0.0043	mg/L	0.0010	107	70	130	5.3	30	
Method: E245.1							Batch: B_33469		
Sample ID: MB-33469	Method Blank								Run: SUB-B113943 07/11/08 16:53
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33469	Laboratory Fortified Blank								Run: SUB-B113943 07/11/08 16:55
Mercury	0.0019	mg/L	0.0010	93	85	115			
Sample ID: B08071042-002DMS	Sample Matrix Spike								Run: SUB-B113943 07/11/08 17:00
Mercury	0.0019	mg/L	0.0010	93	70	130			
Sample ID: B08071042-002DMSD	Sample Matrix Spike Duplicate								Run: SUB-B113943 07/11/08 17:02
Mercury	0.0020	mg/L	0.0010	100	70	130	7.8	30	
Method: E245.1							Analytical Run: SUB-B113943		
Sample ID: QCS	Initial Calibration Verification Standard								07/11/08 15:17
Mercury	0.0020	mg/L	0.0010	102	90	110			
Method: E245.1							Batch: C_B_33540		
Sample ID: MB-33540	Method Blank								Run: SUB-C104653 07/21/08 09:03
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33540	Laboratory Fortified Blank								Run: SUB-C104653 07/21/08 09:05
Mercury	0.0018	mg/L	0.0010	90	85	115			
Sample ID: B08071382-002AMS	Sample Matrix Spike								Run: SUB-C104653 07/21/08 10:02
Mercury	0.0024	mg/L	0.0010	110	70	130			
Sample ID: B08071382-002AMSD	Sample Matrix Spike Duplicate								Run: SUB-C104653 07/21/08 10:04
Mercury	0.0024	mg/L	0.0010	109	70	130	0.4	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35925		
Sample ID: LFB0807081629-3	Laboratory Fortified Blank			Run: DIONEX_080708A			07/08/08 18:20		
Chloride	4.61	mg/L	0.50	92	90	110			
Fluoride	1.89	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N	2.28	mg/L	0.10	91	90	110			
Nitrogen, Nitrite as N	2.40	mg/L	0.10	96	90	110			
Sulfate	13.6	mg/L	1.0	91	90	110			
Sample ID: LFB0807081629-4	Laboratory Fortified Blank			Run: DIONEX_080708A			07/08/08 18:36		
Chloride	4.58	mg/L	0.50	92	90	110			
Fluoride	1.90	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	90	110			
Nitrogen, Nitrite as N	2.38	mg/L	0.10	95	90	110			
Sulfate	13.5	mg/L	1.0	90	90	110			
Sample ID: R08070115-005AMS	Sample Matrix Spike			Run: DIONEX_080708A			07/08/08 22:42		
Chloride	249	mg/L	5.4	71	80	120			S
Fluoride	94.1	mg/L	0.56	87	80	120			
Nitrogen, Nitrate as N	111	mg/L	1.3	89	80	120			
Nitrogen, Nitrite as N	117	mg/L	2.9	93	80	120			
Sulfate	1420	mg/L	3.4	82	80	120			
Sample ID: R08070115-005AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080708A			07/08/08 22:59		
Chloride	247	mg/L	5.4	70	80	120	0.8	10	S
Fluoride	93.6	mg/L	0.56	87	80	120	0.5	10	
Nitrogen, Nitrate as N	111	mg/L	1.3	88	80	120	0.5	10	
Nitrogen, Nitrite as N	116	mg/L	2.9	93	80	120	0.4	10	
Sulfate	1400	mg/L	3.4	79	80	120	1.6	10	S
Method: E300.0							Batch: R35984		
Sample ID: LFB0807113912-3	Laboratory Fortified Blank			Run: DIONEX_080711A			07/11/08 12:14		
Chloride	4.72	mg/L	0.50	94	90	110			
Sample ID: LFB0807113912-4	Laboratory Fortified Blank			Run: DIONEX_080711A			07/11/08 12:30		
Chloride	4.73	mg/L	0.50	95	90	110			
Sample ID: R08070043-006HMS	Sample Matrix Spike			Run: DIONEX_080711A			07/11/08 23:11		
Chloride	926	mg/L	5.4	114	80	120			
Sample ID: R08070043-006HMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080711A			07/11/08 23:27		
Chloride	917	mg/L	5.4	111	80	120	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: 09/12/08
 Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0496		
Sample ID: MB-GrAB-0496	Method Blank				Run: SUB-C105636		08/09/08 00:01		
Gross Alpha	-0.04	pCi/L							U
Gross Beta	-2	pCi/L							U
Sample ID: UNAT-GrAB-0496	Laboratory Control Sample				Run: SUB-C105636		08/09/08 00:01		
Gross Alpha	140	pCi/L	104	70	130				
Sample ID: Cs137-GrAB-0496	Laboratory Control Sample				Run: SUB-C105636		08/09/08 00:01		
Gross Beta	91	pCi/L	99	70	130				
Sample ID: C08071218-007DMS	Sample Matrix Spike				Run: SUB-C105636		08/09/08 00:01		
Gross Alpha	149	pCi/L	90	70	130				
Sample ID: C08071218-007DMSD	Sample Matrix Spike Duplicate				Run: SUB-C105636		08/09/08 00:01		
Gross Alpha	158	pCi/L	96	70	130	5.8	19.9		
Sample ID: C08071218-007DMS	Sample Matrix Spike				Run: SUB-C105636		08/09/08 00:01		
Gross Beta	113	pCi/L	91	70	130				
Sample ID: C08071218-007DMSD	Sample Matrix Spike Duplicate				Run: SUB-C105636		08/09/08 00:01		
Gross Beta	117	pCi/L	95	70	130	2.9	15.8		
Method: E900.0							Batch: C_GrAB-0509		
Sample ID: MB-GrAB-0509	Method Blank				Run: SUB-C106863		08/30/08 03:22		
Gross Alpha	0.5	pCi/L							
Gross Beta	-2	pCi/L							
Sample ID: UNAT-GrAB-0509	Laboratory Control Sample				Run: SUB-C106863		08/30/08 03:22		
Gross Alpha	110	pCi/L	77	70	130				
Sample ID: C08071077-001JMS	Sample Matrix Spike				Run: SUB-C106863		08/30/08 03:22		
Gross Alpha	120	pCi/L	89	70	130				
Sample ID: C08071077-001JMSD	Sample Matrix Spike Duplicate				Run: SUB-C106863		08/30/08 03:22		
Gross Alpha	140	pCi/L	100	70	130	11	17.2		
Sample ID: Cs137-GrAB-0509	Laboratory Control Sample				Run: SUB-C106863		08/30/08 03:22		
Gross Beta	90	pCi/L	99	70	130				
Sample ID: C08071077-001JMS	Sample Matrix Spike				Run: SUB-C106863		08/30/08 03:22		
Gross Beta	94	pCi/L	104	70	130				
Sample ID: C08071077-001JMSD	Sample Matrix Spike Duplicate				Run: SUB-C106863		08/30/08 22:33		
Gross Beta	77	pCi/L	86	70	130	20	16.5		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.

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: 09/12/08
 Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R104840		
Sample ID: LCS-R104840	Laboratory Control Sample				Run: SUB-C104840			07/17/08 13:12	
Americium 241	230000	pCi/L	20	75	70	130			
Cesium 137	460000	pCi/L	20	106	70	130			
Cobalt 60	320000	pCi/L	20	101	70	130			
Sample ID: MB-R104840	Method Blank				Run: SUB-C104840			07/17/08 13:12	
Gross Gamma	ND	pCi/L						U	
Sample ID: C08061394-007HDUP	Sample Duplicate				Run: SUB-C104840			07/17/08 13:12	
Gross Gamma	ND	pCi/L	20				0	30	
Method: E903.0							Batch: C_19224		
Sample ID: C08070719-001EMS	Sample Matrix Spike				Run: SUB-C105486			08/06/08 15:36	
Radium 226	140	pCi/L		87	70	130			
Sample ID: C08070719-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C105486			08/06/08 15:36	
Radium 226	130	pCi/L		79	70	130	7.8	29.9	
Sample ID: MB-19224	Method Blank				Run: SUB-C105486			08/06/08 17:08	
Radium 226	-2	pCi/L						U	
Sample ID: LCS-19224	Laboratory Control Sample				Run: SUB-C105486			08/06/08 17:08	
Radium 226	58	pCi/L		76	70	130			
Method: E903.0							Batch: C_RA226-2961		
Sample ID: MB-RA226-2961	Method Blank				Run: SUB-C105461			08/06/08 08:16	
Radium 226	-0.08	pCi/L						U	
Sample ID: LCS-RA226-2961	Laboratory Control Sample				Run: SUB-C105461			08/06/08 08:16	
Radium 226	16	pCi/L		100	70	130			
Sample ID: C08070540-001EMS	Sample Matrix Spike				Run: SUB-C105461			07/29/08 00:00	
Radium 226	16	pCi/L		103	70	130			
Sample ID: C08070540-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C105461			07/29/08 00:00	
Radium 226	16	pCi/L		104	70	130	0.9	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: 09/12/08
 Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_19224		
Sample ID: C08070680-001IMS Thorium 230	Sample Matrix Spike 19.8	pCi/L	0.20	88	70	130			08/04/08 22:05
									Run: SUB-C105794
Sample ID: C08070680-001IMSD Thorium 230	Sample Matrix Spike Duplicate 23.7	pCi/L	0.20	103	70	130	18	30	08/04/08 22:05
									Run: SUB-C105794
Sample ID: LCS-19224 Thorium 230	Laboratory Control Sample 44.9	pCi/L	0.20	92	70	130			08/05/08 12:51
									Run: SUB-C105794
Sample ID: MB-19224 Thorium 230	Method Blank 0.04	pCi/L							08/05/08 12:51 U
									Run: SUB-C105794
Method: E907.0							Batch: C_RA-TH-ISO-0592		
Sample ID: LCS-RA-TH-ISO-0592 Thorium 230	Laboratory Control Sample 6.23	pCi/L	0.20	103	70	130			08/10/08 16:42
									Run: SUB-C105766
Sample ID: R08070115-006H Thorium 230	Sample Matrix Spike 17.2	pCi/L	0.20	105	70	130			08/10/08 16:46
									Run: SUB-C105766
Sample ID: R08070115-006H Thorium 230	Sample Matrix Spike Duplicate 16.0	pCi/L	0.20	98	70	130	7.3	30	08/10/08 16:47
									Run: SUB-C105766
Sample ID: MB-RA-TH-ISO-0592 Thorium 230	Method Blank -0.05	pCi/L							08/08/08 23:51 U
									Run: SUB-C105766
Method: E909.0M							Batch: C_19224		
Sample ID: R08070115-007I Lead 210	Sample Matrix Spike 930	pCi/L		79	70	130			07/29/08 09:30
									Run: SUB-C106081
Sample ID: R08070115-007I Lead 210	Sample Matrix Spike Duplicate 1400	pCi/L		117	70	130	39	30	07/29/08 09:30 R
									Run: SUB-C106081
Sample ID: MB-R106081 Lead 210	Method Blank 5	pCi/L							07/29/08 09:30 U
									Run: SUB-C106081
Sample ID: LCS-R106081 Lead 210	Laboratory Control Sample 110	pCi/L		87	70	130			07/29/08 09:30
									Run: SUB-C106081

- 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.

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: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R105847		
Sample ID: R08070115-001H	Sample Matrix Spike				Run: SUB-C105847				07/24/08 08:45
Lead 210	560	pCi/L	91	70	130				
Sample ID: R08070115-001H	Sample Matrix Spike Duplicate				Run: SUB-C105847				07/24/08 08:45
Lead 210	590	pCi/L	96	70	130	5.4	30		
Sample ID: MB-R105847	Method Blank				Run: SUB-C105847				07/24/08 08:45
Lead 210	5	pCi/L							U
Sample ID: LCS-R105847	Laboratory Control Sample				Run: SUB-C105847				07/24/08 08:45
Lead 210	130	pCi/L	106	70	130				
Sample ID: R08070115-005H	Sample Duplicate				Run: SUB-C105847				07/24/08 08:45
Lead 210	6.3	pCi/L				110	30	UR	
Lead 210 MDC	7.9	pCi/L							
- High RPD is irrelevant since both samples are below the MDC.									
Method: RMO-3008							Batch: C_19224		
Sample ID: C08070737-009IMS	Sample Matrix Spike				Run: SUB-C105583				07/31/08 14:15
Polonium 210	50	pCi/L	1.0	119	70	130			
Sample ID: C08070737-009IMSD	Sample Matrix Spike Duplicate				Run: SUB-C105583				07/31/08 14:15
Polonium 210	44	pCi/L	1.0	104	70	130	14	30	
Sample ID: LCS-R105583	Laboratory Control Sample				Run: SUB-C105583				07/31/08 14:15
Polonium 210	80	pCi/L	1.0	93	70	130			
Sample ID: MB-R105583	Method Blank				Run: SUB-C105583				07/31/08 14:15
Polonium 210	0.2	pCi/L							U
Method: RMO-3008							Batch: C_R106670		
Sample ID: R08070115-004H	Sample Matrix Spike				Run: SUB-C106670				08/21/08 17:30
Polonium 210	80	pCi/L	1.0	72	70	130			
Sample ID: R08070115-004H	Sample Matrix Spike Duplicate				Run: SUB-C106670				08/21/08 17:30
Polonium 210	95	pCi/L	1.0	84	70	130	17	30	
Sample ID: LCS-R106670	Laboratory Control Sample				Run: SUB-C106670				08/21/08 17:30
Polonium 210	42	pCi/L	1.0	76	70	130			
Sample ID: MB-R106670	Method Blank				Run: SUB-C106670				08/21/08 17:30
Polonium 210	0.1	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



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW7470A									Analytical Run: SUB-C104653
Sample ID: QCS	Initial Calibration Verification Standard								07/21/08 08:38
Mercury	0.0020	mg/L	0.0010	100	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: PEREZ		Project Name, PWS, Permit, Etc. Poweshel Dwyg Bank		Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address:		Contact Name: Cory Foreman		Email:	Sampler: (Please Print) Eric Vranke
Invoice Address:		Phone/Fax:		Purchase Order:	Quote/Bottle Order:
Special Report/Formats - ELL must be notified prior to sample submittal for the following:				Shipped by:	
<input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> GSA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> Format: <input type="checkbox"/> State: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: <input type="checkbox"/> NELAC				Cooler (K):	
Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other				Received Temp 5.3 °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ANALYSIS REQUESTED <i>As per Quote</i>				SEE ATTACHED Normal Turnaround (TAT)	
RUSH Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page				Comments:	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)				Signature: Eric Vranke Date: 7-8-08 9:56	
1	DewBurd GW 682	7/7/08	13:39	W	08-11-19 set 9
2	DewBurd GW 680	7/7/08	13:29	W	08-11-19 set 9
3	DewBurd GW 682	7/7/08	15:22	W	11-2 set 4
4	DewBurd GW 684	7/7/08	17:22	W	set 10
5	DewBurd GW 690	7/7/08	18:10	W	11-18 set 1
6	DewBurd GW 688	7/7/08	18:58	W	11-18 set 3
7	DewBurd GW 686	7/7/08	18:5	W	11-17 set 17
8	DewBurd GW 688	7/7/08	18:49	W	11-15 set 6
9	DewBurd GW 686	7/7/08	19:03	W	set 6
10					

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



ANALYTICAL SUMMARY REPORT

October 01, 2008

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

Workorder No.: R08070220 Quote ID: R286

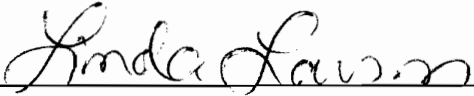
Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample from RESPEC Inc on 7/14/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08070220-001	DewBurd GW3026	07/13/08 15:28	07/14/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

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



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070220-001
 Client Sample ID: DewBurd GW3026

Report Date: 10/01/08
 Collection Date: 07/13/08 15:28
 Date Received: 07/14/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	184	mg/L		5		1	A2320 B 07/15/08 17:41/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/15/08 17:41/mb
Bicarbonate as HCO3	224	mg/L		5		1	A2320 B 07/15/08 17:41/mb
Calcium	466	mg/L		0.5		1	E200.7 07/22/08 16:48/eli-c
Chloride	15	mg/L		1		1	E300.0 07/16/08 10:34/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0 07/16/08 10:34/jmh
Magnesium	138	mg/L		0.5		1	E200.7 07/22/08 16:48/eli-c
Nitrogen, Ammonia as N	0.7	mg/L		0.1		1	A4500-NH3 G 07/17/08 15:58/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 07/16/08 10:34/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 07/16/08 10:34/jmh
Potassium	30.6	mg/L		0.5		1	E200.7 07/22/08 16:48/eli-c
Silica	1.4	mg/L		0.5		1	E200.7 07/22/08 16:48/eli-c
Sodium	168	mg/L		0.5		1	E200.7 07/22/08 16:48/eli-c
Sulfate	1700	mg/L	D	3		50	E300.0 07/16/08 09:45/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	3070	umhos/cm		5.0		1	A2510 B 07/17/08 10:22/tb
Oxidation-Reduction Potential	-15.5	mV				1	A2580 B 07/16/08 00:00/kh
pH	6.57	s.u.		0.01		1	A4500-H B 07/16/08 15:44/tb
Sodium Adsorption Ratio (SAR)	1.8	unitless		0.10		1	Calculation 09/24/08 08:30/ADM
Solids, Total Dissolved TDS @ 180 C	2800	mg/L		5		1	A2540 C 07/14/08 15:38/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 07/26/08 07:52/eli-c
Arsenic	0.016	mg/L		0.001		1	E200.8 07/26/08 07:52/eli-c
Barium	ND	mg/L		0.1		1	E200.8 07/26/08 07:52/eli-c
Boron	0.1	mg/L		0.1		1	E200.7 07/22/08 16:48/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 07/26/08 07:52/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 07/26/08 07:52/eli-c
Copper	ND	mg/L		0.01		1	E200.8 07/26/08 07:52/eli-c
Iron	21.2	mg/L		0.03		1	E200.7 07/22/08 16:48/eli-c
Lead	ND	mg/L		0.001		1	E200.8 07/26/08 07:52/eli-c
Manganese	1.47	mg/L		0.01		1	E200.8 07/26/08 07:52/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 07/26/08 07:52/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 07/26/08 07:52/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 07/26/08 07:52/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 08/05/08 17:17/eli-c
Silver	ND	mg/L		0.005		1	E200.8 07/31/08 18:07/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 07/26/08 07:52/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070220-001
 Client Sample ID: DewBurd GW3026

Report Date: 10/01/08
 Collection Date: 07/13/08 15:28
 Date Received: 07/14/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0128	mg/L		0.0003		1 E200.8	07/26/08 07:52/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	07/26/08 07:52/eli-c
Zinc	0.01	mg/L		0.01		1 E200.8	07/26/08 07:52/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	07/27/08 03:57/eli-c
METALS - SPECIATED							
Selenium-IV	0.001	mg/L		0.001		1 A3114 B	08/05/08 15:17/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	08/05/08 17:40/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	80.1	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Gross Alpha precision (±)	11.8	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Gross Alpha MDC	10.4	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Gross Beta	32.6	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Gross Beta precision (±)	7.2	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Gross Beta MDC	11.0	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Lead 210	3.1	pCi/L	U			1 E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.6	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1 RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	0.46	pCi/L				1 RMO-3008	08/21/08 17:30/eli-c
Radium 226	10.1	pCi/L				1 E903.0	08/06/08 12:47/eli-c
Radium 226 precision (±)	0.7	pCi/L				1 E903.0	08/06/08 12:47/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1 E907.0	08/08/08 23:51/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	08/08/08 23:51/eli-c
Gross Gamma	1000	pCi/L		20		1 E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	200	pCi/L				1 E901.1	07/17/08 13:12/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. This value should not be used for regulatory reporting purposes.							
RADIONUCLIDES - SUSPENDED							
Lead 210	-10	pCi/L	U			1 E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.6	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1 RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.28	pCi/L				1 RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.2	pCi/L	U			1 E903.0	08/06/08 13:33/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	08/06/08 13:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070220-001
 Client Sample ID: DewBurd GW3026

Report Date: 10/01/08
 Collection Date: 07/13/08 15:28
 Date Received: 07/14/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.6	pCi/L					1	E903.0	08/06/08 13:33/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	08/04/08 22:05/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	08/04/08 22:05/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. This value should not be used for regulatory reporting purposes.									
RADIONUCLIDES - TOTAL									
Radon 222	560	pCi/L		100			1	D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	63.0	pCi/L					1	D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	08/01/08 01:01/eli-c
Arsenic	0.044	mg/L		0.001			10	E200.8	08/01/08 01:01/eli-c
Barium	ND	mg/L		0.1			10	E200.8	08/01/08 01:01/eli-c
Beryllium	0.001	mg/L		0.001			10	E200.8	08/01/08 01:01/eli-c
Boron	0.3	mg/L		0.1			2	E200.7	07/18/08 12:52/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	08/01/08 01:01/eli-c
Chromium	ND	mg/L		0.05			10	E200.8	08/01/08 01:01/eli-c
Copper	0.01	mg/L		0.01			10	E200.8	08/01/08 01:01/eli-c
Iron	22.0	mg/L		0.03			2	E200.7	07/18/08 12:52/eli-c
Lead	ND	mg/L		0.001			10	E200.8	08/01/08 01:01/eli-c
Manganese	1.57	mg/L		0.01			10	E200.8	08/02/08 02:35/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/23/08 08:42/eli-b
Mercury	ND	mg/L		0.0001			1	E245.1	07/22/08 10:48/eli-b
Molybdenum	ND	mg/L		0.1			10	E200.8	08/01/08 01:01/eli-c
Nickel	ND	mg/L		0.05			10	E200.8	08/01/08 01:01/eli-c
Selenium	ND	mg/L		0.001			10	E200.8	08/01/08 01:01/eli-c
Silver	ND	mg/L		0.005			10	E200.8	08/02/08 02:35/eli-c
Strontium	7.7	mg/L		0.1			10	E200.8	08/01/08 01:01/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	08/01/08 01:01/eli-c
Uranium	0.0151	mg/L		0.0003			10	E200.8	08/01/08 01:01/eli-c
Zinc	0.03	mg/L		0.01			10	E200.8	08/01/08 01:01/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.04	%					1	A1030 E	09/24/08 00:00/jmh
Anions	39.4	meq/L					1	A1030 E	09/24/08 00:00/jmh
Cations	43.6	meq/L					1	A1030 E	09/24/08 00:00/jmh
Solids, Total Dissolved Calculated	2630	mg/L					1	A1030 E	09/24/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.06						1	A1030 E	09/24/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: 10/01/08
Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080715A-ALK-SEL-W		
Sample ID: LCS1_080715A Alkalinity, Total as CaCO3	Laboratory Control Sample 952	mg/L	5.0	95	90	110			Run: PH_COND1-R_080715A 07/15/08 14:16
Sample ID: MBLK1_080715A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080715A 07/15/08 14:17
Sample ID: R08070173-004AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 278	mg/L	5.0	102	80	120			Run: PH_COND1-R_080715A 07/15/08 17:15
Sample ID: R08070173-004AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 282	mg/L	5.0	106	80	120	1.4	10	Run: PH_COND1-R_080715A 07/15/08 17:20
Sample ID: R08070238-005AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 274	mg/L	5.0	102	80	120			Run: PH_COND1-R_080715A 07/15/08 18:02
Sample ID: R08070238-005AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 276	mg/L	5.0	104	80	120	0.7	10	Run: PH_COND1-R_080715A 07/15/08 18:03
Method: A2510 B							Batch: 080717_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080717 Conductivity @ 25 C	Laboratory Control Sample 1420	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080717B 07/17/08 10:06
Sample ID: LCS1-1_080717 Conductivity @ 25 C	Laboratory Control Sample 156	umhos/cm	5.0	104	90	110			Run: PH_COND2-R_080717B 07/17/08 10:06
Sample ID: LCS2-1_080717 Conductivity @ 25 C	Laboratory Control Sample 4940	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080717B 07/17/08 10:08
Sample ID: MBLK-1_080717 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080717B 07/17/08 10:42
Method: A2540 C							Batch: 080714A-SLDS-TDS-W		
Sample ID: R08070211-006BMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 1100	mg/L	5.0	104	80	120			Run: BAL-4-R_080710B 07/14/08 15:32
Sample ID: R08070211-006BMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 1100	mg/L	5.0	102	80	120	0.4	10	Run: BAL-4-R_080710B 07/14/08 15:33
Method: A2580 B							Batch: 080716-ORP-ISE-W		
Sample ID: LCS Oxidation-Reduction Potential	Laboratory Control Sample 470	mV		100	95	105			Run: PH_COND1-R_080716A 07/16/08 00:00
Sample ID: R08070220-001F Oxidation-Reduction Potential	Sample Duplicate ND	mV					0	10	Run: PH_COND1-R_080716A 07/16/08 00:00

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: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080805B		
Sample ID: MBLK Selenium-IV	Method Blank ND mg/L		6E-05			Run: SUB-C105358			08/05/08 14:47
Sample ID: 288-114-6 Selenium-IV	Laboratory Control Sample 0.050 mg/L		0.0010	99	90	110			08/05/08 14:49
Sample ID: C08070631-001CMS Selenium-IV	Sample Matrix Spike 0.046 mg/L		0.0010	92	85	115			08/05/08 15:22
Sample ID: C08070631-001CMSD Selenium-IV	Sample Matrix Spike Duplicate 0.046 mg/L		0.0010	93	85	115	0.9	10	08/05/08 15:24
Method: A3114 B							Batch: C_SE3114-080805C		
Sample ID: MBLK Selenium	Method Blank ND mg/L		6E-05			Run: SUB-C105366			08/05/08 16:49
Sample ID: 288-114-6 Selenium	Laboratory Control Sample 0.050 mg/L		0.0010	99	90	110			08/05/08 16:51
Sample ID: C08070547-001EMS Selenium	Sample Matrix Spike 0.053 mg/L		0.0010	102	85	115			08/05/08 16:56
Sample ID: C08070547-001EMSD Selenium	Sample Matrix Spike Duplicate 0.054 mg/L		0.0010	104	85	115	1.1	10	08/05/08 16:58
Method: A4500-H B							Batch: 080716_1_PH-W		
Sample ID: LCS_pH-1_080716 pH	Laboratory Control Sample 6.81 s.u.		0.010	99	98.55	101.45			07/16/08 15:41
Method: A4500-NH3 G							Batch: A2008-07-17_2_NH3_02		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND mg/L		0.01			Run: TECHAA2-R_080717B			07/17/08 11:42
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24 mg/L		0.10	94	90	110			07/17/08 11:54
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26 mg/L		0.10	103	90	110			07/17/08 11:55
Sample ID: R08070237-002BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.21 mg/L		0.10	85	80	120			07/17/08 16:04
Sample ID: R08070237-002BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.20 mg/L		0.10	80	80	120	6.3	10	07/17/08 16:05

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: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: D5072-92							Batch: C_R104556		
Sample ID: R08070220-001G	Sample Duplicate					Run: SUB-C104556			07/16/08 18:45
Radon 222	601	pCi/L	100				7.1	30	
Sample ID: MB-R104556	Method Blank					Run: SUB-C104556			07/16/08 18:45
Radon 222	-30	pCi/L							
Sample ID: LCS-R104556	Laboratory Control Sample					Run: SUB-C104556			07/16/08 18:45
Radon 222	302	pCi/L	100	109	70	130			
Method: E200.7							Batch: C_19148		
Sample ID: MB-19148	Method Blank					Run: SUB-C104499			07/18/08 10:27
Boron	0.04	mg/L	0.006						
Iron	0.01	mg/L	0.005						
Sample ID: LCS3-19148	Laboratory Control Sample					Run: SUB-C104499			07/18/08 10:30
Boron	0.565	mg/L	0.10	105	85	115			
Iron	2.55	mg/L	0.030	101	85	115			
Sample ID: C08070676-001HMS3	Sample Matrix Spike					Run: SUB-C104499			07/18/08 12:45
Boron	0.525	mg/L	0.10	96	70	130			
Iron	2.35	mg/L	0.030	89	70	130			
Sample ID: C08070676-001HMSD3	Sample Matrix Spike Duplicate					Run: SUB-C104499			07/18/08 12:48
Boron	0.552	mg/L	0.10	101	70	130	5	20	
Iron	2.47	mg/L	0.030	94	70	130	5.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R104679		
Sample ID: MB-080722	Method Blank				Run: SUB-C104679			07/22/08 11:40	
Boron	0.06	mg/L	0.02						
Iron	0.2	mg/L	0.005						
Calcium	0.7	mg/L	0.04						
Magnesium	0.6	mg/L	0.06						
Potassium	0.6	mg/L	0.05						
Silica	ND	mg/L	0.1						
Sodium	ND	mg/L	0.07						
Silicon	ND	mg/L	0.05						
Sample ID: C08070893-002BDUP	Sample Duplicate				Run: SUB-C104679			07/23/08 01:34	
Boron	ND	mg/L	0.10				0	20	
Iron	ND	mg/L	0.030				0	20	
Calcium	0.149	mg/L	1.0				0	20	
Magnesium	ND	mg/L	1.0				0	20	
Potassium	0.551	mg/L	1.0				0	20	
Silica	ND	mg/L	0.10						
Sodium	0.164	mg/L	1.0				0	20	
Silicon	ND	mg/L	0.047				0	20	
Sample ID: C08070707-001BMS	Sample Matrix Spike				Run: SUB-C104679			07/22/08 16:56	
Boron	3.02	mg/L	0.27	96	70	130			
Iron	2.44	mg/L	0.77	98	70	130			
Silicon	2.31	mg/L	0.27	13	70	130			S
Sample ID: C08070707-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C104679			07/22/08 17:01	
Boron	2.75	mg/L	0.27	85	70	130	9.4	20	
Iron	2.34	mg/L	0.77	94	70	130	4	20	
Silicon	2.33	mg/L	0.27	14	70	130	0.9	20	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: 10/01/08
Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19148		
Sample ID: MB-19148	Method Blank		Run: SUB-C105162				08/01/08 00:20		
Antimony	0.0002	mg/L	6E-05						
Arsenic	0.02	mg/L	4E-05						
Barium	0.0001	mg/L	7E-05						
Beryllium	ND	mg/L	5E-05						
Cadmium	ND	mg/L	2E-05						
Chromium	0.006	mg/L	5E-05						
Copper	ND	mg/L	0.0004						
Lead	ND	mg/L	5E-05						
Manganese	0.0002	mg/L	3E-05						
Molybdenum	5E-05	mg/L	4E-05						
Nickel	ND	mg/L	0.0002						
Selenium	ND	mg/L	4E-05						
Silver	ND	mg/L	0.0002						
Strontium	ND	mg/L	4E-05						
Thallium	ND	mg/L	5E-05						
Uranium	ND	mg/L	3E-05						
Zinc	0.003	mg/L	0.0007						
Sample ID: LCS3-19148	Laboratory Control Sample		Run: SUB-C105162				08/01/08 00:27		
Antimony	0.526	mg/L	0.050	105	85	115			
Arsenic	0.550	mg/L	0.0010	106	85	115			
Barium	0.530	mg/L	0.10	106	85	115			
Beryllium	0.272	mg/L	0.010	109	85	115			
Cadmium	0.269	mg/L	0.010	108	85	115			
Chromium	0.517	mg/L	0.050	102	85	115			
Copper	0.516	mg/L	0.010	103	85	115			
Lead	0.513	mg/L	0.050	103	85	115			
Manganese	2.79	mg/L	0.010	112	85	115			
Molybdenum	0.501	mg/L	0.10	100	85	115			
Nickel	0.513	mg/L	0.050	103	85	115			
Selenium	0.528	mg/L	0.0010	106	85	115			
Silver	0.0294	mg/L	0.010	59	85	115			S
Strontium	0.529	mg/L	0.10	106	85	115			
Thallium	0.512	mg/L	0.10	102	85	115			
Uranium	0.555	mg/L	0.00030	111	85	115			
Zinc	0.521	mg/L	0.010	104	85	115			
Sample ID: C08070676-001HMS3	Sample Matrix Spike		Run: SUB-C105162				08/01/08 01:14		
Antimony	0.574	mg/L	0.050	115	70	130			
Arsenic	0.599	mg/L	0.0010	116	70	130			
Barium	0.638	mg/L	0.10	114	70	130			
Beryllium	0.279	mg/L	0.010	111	70	130			
Cadmium	0.287	mg/L	0.010	115	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: 10/01/08
 Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19148		
Sample ID: C08070676-001HMS3	Sample Matrix Spike			Run: SUB-C105162			08/01/08 01:14		
Chromium	0.572	mg/L	0.050	113	70	130			
Copper	0.569	mg/L	0.010	114	70	130			
Lead	0.525	mg/L	0.050	105	70	130			
Manganese	3.00	mg/L	0.010	120	70	130			
Molybdenum	0.541	mg/L	0.10	108	70	130			
Nickel	0.570	mg/L	0.050	114	70	130			
Selenium	0.579	mg/L	0.0010	113	70	130			
Silver	0.0338	mg/L	0.010	68	70	130			S
Strontium	1.52	mg/L	0.10	147	70	130			S
Thallium	0.508	mg/L	0.10	102	70	130			
Uranium	0.586	mg/L	0.00030	113	70	130			
Zinc	0.597	mg/L	0.010	110	70	130			
Sample ID: C08070676-001HMSD3	Sample Matrix Spike Duplicate			Run: SUB-C105162			08/01/08 01:21		
Antimony	0.567	mg/L	0.050	113	70	130	1.3	20	
Arsenic	0.605	mg/L	0.0010	117	70	130	1	20	
Barium	0.628	mg/L	0.10	113	70	130	1.5	20	
Beryllium	0.280	mg/L	0.010	112	70	130	0.5	20	
Cadmium	0.285	mg/L	0.010	114	70	130	0.7	20	
Chromium	0.575	mg/L	0.050	114	70	130	0.4	20	
Copper	0.569	mg/L	0.010	114	70	130	0.1	20	
Lead	0.549	mg/L	0.050	110	70	130	4.4	20	
Manganese	3.01	mg/L	0.010	120	70	130	0.3	20	
Molybdenum	0.547	mg/L	0.10	109	70	130	1.1	20	
Nickel	0.569	mg/L	0.050	114	70	130	0.1	20	
Selenium	0.579	mg/L	0.0010	113	70	130	0	20	
Silver	0.0394	mg/L	0.010	79	70	130	15	20	
Strontium	1.54	mg/L	0.10	153	70	130	1.7	20	S
Thallium	0.539	mg/L	0.10	108	70	130	6	20	
Uranium	0.600	mg/L	0.00030	116	70	130	2.4	20	
Zinc	0.589	mg/L	0.010	109	70	130	1.3	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

Report Date: 10/01/08

Project: Edgemont

Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_19224
Sample ID: MB-19224	Method Blank								07/27/08 03:08
Uranium	2E-05	mg/L							
Sample ID: LCS1-19224	Laboratory Control Sample								07/27/08 03:12
Uranium	0.0471	mg/L	0.00030	90	80	120			
Sample ID: R08070244-009I	Post Digestion Spike								07/27/08 04:50
Uranium	0.0115	mg/L	0.00030	92	70	130			
Sample ID: R08070244-009I	Post Digestion Spike Duplicate								07/27/08 04:54
Uranium	0.0115	mg/L	0.00030	91	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: 10/01/08
Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104869		
Sample ID: LRB	Method Blank		Run: SUB-C104869				07/25/08 17:21		
Aluminum	ND	mg/L	0.0001						
Arsenic	ND	mg/L	4E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	3E-06						
Chromium	ND	mg/L	4E-05						
Copper	ND	mg/L	3E-05						
Lead	ND	mg/L	3E-06						
Manganese	ND	mg/L	6E-06						
Mercury	8E-05	mg/L	1E-05						
Molybdenum	ND	mg/L	9E-06						
Nickel	ND	mg/L	3E-05						
Uranium	ND	mg/L	2E-06						
Vanadium	ND	mg/L	3E-05						
Zinc	0.0002	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C104869				07/25/08 17:28		
Aluminum	0.0620	mg/L	0.0010	124	85	115			S
Arsenic	0.0515	mg/L	0.0010	103	85	115			
Barium	0.0513	mg/L	0.0010	102	85	115			
Cadmium	0.0510	mg/L	0.0010	102	85	115			
Chromium	0.0515	mg/L	0.0010	103	85	115			
Copper	0.0520	mg/L	0.0010	104	85	115			
Lead	0.0514	mg/L	0.0010	103	85	115			
Manganese	0.0516	mg/L	0.0010	103	85	115			
Mercury	0.00522	mg/L	0.0010	103	85	115			
Molybdenum	0.0492	mg/L	0.0010	98	85	115			
Nickel	0.0514	mg/L	0.0010	103	85	115			
Uranium	0.0473	mg/L	0.00030	95	85	115			
Vanadium	0.0513	mg/L	0.0010	102	85	115			
Zinc	0.0545	mg/L	0.0010	109	85	115			
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C104869				07/25/08 17:28		
Thorium 232	0.0473	mg/L	0.0010	95	85	115			
Sample ID: R08070220-001C	Post Digestion Spike		Run: SUB-C104869				07/26/08 07:58		
Aluminum	0.0458	mg/L	0.10	92	70	130			
Arsenic	0.0671	mg/L	0.0010	101	70	130			
Barium	0.0654	mg/L	0.10	102	70	130			
Cadmium	0.0474	mg/L	0.010	95	70	130			
Chromium	0.0489	mg/L	0.050	98	70	130			
Copper	0.0513	mg/L	0.010	92	70	130			
Lead	0.0502	mg/L	0.050	100	70	130			
Manganese	1.51	mg/L	0.010		70	130			A
Mercury	0.00539	mg/L	0.0010	108	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: 10/01/08
Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104869		
Sample ID: R08070220-001C	Post Digestion Spike			Run: SUB-C104869			07/26/08 07:58		
Molybdenum	0.0692	mg/L	0.10	99	70	130			
Nickel	0.0601	mg/L	0.050	96	70	130			
Thorium 232	0.0532	mg/L	0.0010	106	70	130			
Uranium	0.0669	mg/L	0.00030	108	70	130			
Vanadium	0.0503	mg/L	0.10	101	70	130			
Zinc	0.0555	mg/L	0.010	90	70	130			
Sample ID: R08070220-001C	Post Digestion Spike Duplicate			Run: SUB-C104869			07/26/08 08:05		
Aluminum	0.0459	mg/L	0.10	92	70	130	0	20	
Arsenic	0.0627	mg/L	0.0010	92	70	130	6.9	20	
Barium	0.0658	mg/L	0.10	102	70	130	0	20	
Cadmium	0.0476	mg/L	0.010	95	70	130	0.4	20	
Chromium	0.0452	mg/L	0.050	90	70	130	0	20	
Copper	0.0478	mg/L	0.010	85	70	130	7	20	
Lead	0.0505	mg/L	0.050	101	70	130	0.6	20	
Manganese	1.52	mg/L	0.010	70	130	130	0.8	20	A
Mercury	0.00553	mg/L	0.0010	111	70	130	2.6	20	
Molybdenum	0.0686	mg/L	0.10	98	70	130	0	20	
Nickel	0.0586	mg/L	0.050	93	70	130	2.5	20	
Thorium 232	0.0534	mg/L	0.0010	107	70	130	0.5	20	
Uranium	0.0669	mg/L	0.00030	108	70	130	0	20	
Vanadium	0.0468	mg/L	0.10	94	70	130	0	20	
Zinc	0.0501	mg/L	0.010	79	70	130	10	20	
Method: E200.8							Batch: C_R105162		
Sample ID: LRB	Method Blank			Run: SUB-C105162			07/31/08 12:55		
Silver	0.0004	mg/L	7E-06						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C105162			07/31/08 13:02		
Silver	0.0196	mg/L	0.0010	96	85	115			
Sample ID: C08070680-001CMS4	Post Digestion Spike			Run: SUB-C105162			07/31/08 18:14		
Silver	0.0137	mg/L	0.010	69	70	130			S
Sample ID: C08070707-001BMS4	Post Digestion Spike			Run: SUB-C105162			07/31/08 19:07		
Silver	0.119	mg/L	0.010	60	70	130			S
Sample ID: C08070707-001BMSD4	Post Digestion Spike Duplicate			Run: SUB-C105162			07/31/08 19:14		
Silver	0.122	mg/L	0.010	61	70	130	1.9	20	S

Qualifiers:

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

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/01/08
 Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: B_33661		
Sample ID: MB-33661	Method Blank					Run: SUB-B114551			07/23/08 08:31
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33661	Laboratory Fortified Blank					Run: SUB-B114551			07/23/08 08:33
Mercury	0.0021	mg/L	0.0010	105	85	115			
Sample ID: B08071691-003AMS	Sample Matrix Spike					Run: SUB-B114551			07/23/08 08:38
Mercury	0.0019	mg/L	0.0010	97	70	130			
Sample ID: B08071691-003AMSD	Sample Matrix Spike Duplicate					Run: SUB-B114551			07/23/08 08:40
Mercury	0.0022	mg/L	0.0010	108	70	130	11	30	
Method: E245.1							Batch: C_B_33630		
Sample ID: MB-33630	Method Blank					Run: SUB-C104808			07/22/08 09:40
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33630	Laboratory Fortified Blank					Run: SUB-C104808			07/22/08 09:43
Mercury	0.0019	mg/L	0.0010	97	85	115			
Sample ID: B08071482-002BMS	Sample Matrix Spike					Run: SUB-C104808			07/22/08 10:15
Mercury	0.0018	mg/L	0.0010	92	70	130			
Sample ID: B08071482-002B MSD	Sample Matrix Spike Duplicate					Run: SUB-C104808			07/22/08 10:17
Mercury	0.0019	mg/L	0.0010	94	70	130	2.7	30	
Method: E245.1							Analytical Run: SUB-C104808		
Sample ID: QCS	Initial Calibration Verification Standard								07/22/08 09:25
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: 10/01/08
Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R36127		
Sample ID: LFB0807153729-3	Laboratory Fortified Blank		Run: DIONEX_080716A			07/16/08 08:56			
Chloride	4.80	mg/L	0.50	96	90	110			
Fluoride	1.81	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.37	mg/L	0.10	95	90	110			
Nitrogen, Nitrite as N	2.51	mg/L	0.10	100	90	110			
Sulfate	14.3	mg/L	1.0	96	90	110			
Sample ID: LFB0807153729-4	Laboratory Fortified Blank		Run: DIONEX_080716A			07/16/08 09:12			
Chloride	4.93	mg/L	0.50	99	90	110			
Fluoride	1.87	mg/L	0.10	94	90	110			
Nitrogen, Nitrate as N	2.44	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N	2.58	mg/L	0.10	103	90	110			
Sulfate	14.7	mg/L	1.0	98	90	110			
Sample ID: LFB0807153729-5	Laboratory Fortified Blank		Run: DIONEX_080716A			07/16/08 09:29			
Chloride	4.94	mg/L	0.50	99	90	110			
Fluoride	1.87	mg/L	0.10	94	90	110			
Nitrogen, Nitrate as N	2.44	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N	2.58	mg/L	0.10	103	90	110			
Sulfate	14.8	mg/L	1.0	98	90	110			
Sample ID: R08070220-001AMS	Sample Matrix Spike		Run: DIONEX_080716A			07/16/08 10:01			
Chloride	262	mg/L	5.4	95	80	120			
Fluoride	94.7	mg/L	0.56	85	80	120			
Nitrogen, Nitrate as N	122	mg/L	1.3	98	80	120			
Nitrogen, Nitrite as N	130	mg/L	2.9	104	80	120			
Sulfate	2320	mg/L	3.4	84	80	120			
Sample ID: R08070220-001AMSD	Sample Matrix Spike Duplicate		Run: DIONEX_080716A			07/16/08 10:18			
Chloride	251	mg/L	5.4	90	80	120	4.3	10	
Fluoride	90.6	mg/L	0.56	81	80	120	4.5	10	
Nitrogen, Nitrate as N	117	mg/L	1.3	94	80	120	4.1	10	
Nitrogen, Nitrite as N	124	mg/L	2.9	100	80	120	4.3	10	
Sulfate	2260	mg/L	3.4	75	80	120	2.8	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: 10/01/08
 Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0496		
Sample ID: MB-GrAB-0496	Method Blank								08/09/08 00:01
Gross Alpha	-0.04	pCi/L							U
Gross Beta	-2	pCi/L							U
Sample ID: UNAT-GrAB-0496	Laboratory Control Sample								08/09/08 00:01
Gross Alpha	140	pCi/L	104		70	130			
Sample ID: C08071218-007DMS	Sample Matrix Spike								08/09/08 00:01
Gross Beta	113	pCi/L	91		70	130			
Sample ID: C08071218-007DMSD	Sample Matrix Spike Duplicate								08/09/08 00:01
Gross Beta	117	pCi/L	95		70	130	2.9	15.8	
Sample ID: R08070220-001H	Sample Duplicate								08/09/08 12:18
Gross Alpha	97	pCi/L					20	37.6	
Gross Beta	39	pCi/L					18	50.2	

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: 10/01/08
 Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R104840		
Sample ID: LCS-R104840	Laboratory Control Sample		Run: SUB-C104840				07/17/08 13:12		
Americium 241	230000	pCi/L	20	75	70	130			
Cesium 137	460000	pCi/L	20	106	70	130			
Cobalt 60	320000	pCi/L	20	101	70	130			
Sample ID: MB-R104840	Method Blank		Run: SUB-C104840				07/17/08 13:12		
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
Sample ID: R08070220-001H	Sample Duplicate		Run: SUB-C104840				07/17/08 13:12		
Americium 241	ND	pCi/L	20				0		30
Barium 133	ND	pCi/L	20				0		30
Bismuth 212	ND	pCi/L	20				0		30
Bismuth 214	81	pCi/L	20				2.6		30
Cesium 134	ND	pCi/L	20				0		30
Cesium 137	ND	pCi/L	20				0		30
Cobalt 60	ND	pCi/L	20				0		30
Iodine 125	ND	pCi/L	20				0		30
Iodine 131	ND	pCi/L	20				0		30
Lead 212	ND	pCi/L	20				0		30
Lead 214	47	pCi/L	20				3.3		30
Manganese 54	ND	pCi/L	20				0		30
Potassium 40	880	pCi/L	20				3.7		30
Radium 223	ND	pCi/L	20				0		30
Radium 224	ND	pCi/L	20				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: 10/01/08
Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R104840		
Sample ID: R08070220-001H	Sample Duplicate				Run: SUB-C104840				07/17/08 13:12
Thallium 208	ND	pCi/L	20				0	30	
Thorium 228	ND	pCi/L	20				0	30	
Thorium 234	ND	pCi/L	20				0	30	
Zinc 65	ND	pCi/L	20				0	30	
Radium 228	ND	pCi/L	20				0	30	
Gross Gamma	1000	pCi/L	20				3.3	30	
Method: E903.0							Batch: C_19224		
Sample ID: C08070719-001EMS	Sample Matrix Spike				Run: SUB-C105486				08/06/08 15:36
Radium 226	140	pCi/L		87	70	130			
Sample ID: C08070719-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C105486				08/06/08 15:36
Radium 226	130	pCi/L		79	70	130	7.8	29.9	
Sample ID: MB-19224	Method Blank				Run: SUB-C105486				08/06/08 17:08
Radium 226	-2	pCi/L							U
Sample ID: LCS-19224	Laboratory Control Sample				Run: SUB-C105486				08/06/08 17:08
Radium 226	58	pCi/L		76	70	130			
Method: E903.0							Batch: C_RA226-2969		
Sample ID: MB-RA226-2969	Method Blank				Run: SUB-C105492				08/06/08 14:37
Radium 226	-0.2	pCi/L							U
Sample ID: LCS-RA226-2969	Laboratory Control Sample				Run: SUB-C105492				08/06/08 14:37
Radium 226	8.0	pCi/L		103	70	130			
Method: E907.0							Batch: C_19224		
Sample ID: C08070680-001IMS	Sample Matrix Spike				Run: SUB-C105794				08/04/08 22:05
Thorium 230	19.8	pCi/L	0.20	88	70	130			
Sample ID: C08070680-001IMSD	Sample Matrix Spike Duplicate				Run: SUB-C105794				08/04/08 22:05
Thorium 230	23.7	pCi/L	0.20	103	70	130	18	30	
Sample ID: LCS-19224	Laboratory Control Sample				Run: SUB-C105794				08/05/08 12:51
Thorium 230	44.9	pCi/L	0.20	92	70	130			
Sample ID: MB-19224	Method Blank				Run: SUB-C105794				08/05/08 12:51
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



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0592		
Sample ID: LCS-RA-TH-ISO-0592	Laboratory Control Sample				Run: SUB-C105766			08/10/08 16:42	
Thorium 230	6.23	pCi/L	0.20	103	70	130			
Sample ID: C08070547-006HMS	Sample Matrix Spike				Run: SUB-C105766			08/10/08 16:46	
Thorium 230	17.2	pCi/L	0.20	105	70	130			
Sample ID: C08070547-006HMSD	Sample Matrix Spike Duplicate				Run: SUB-C105766			08/10/08 16:47	
Thorium 230	16.0	pCi/L	0.20	98	70	130	7.3	30	
Sample ID: MB-RA-TH-ISO-0592	Method Blank				Run: SUB-C105766			08/08/08 23:51	
Thorium 230	-0.05	pCi/L							U
Method: E909.0M							Batch: C_19224		
Sample ID: C08070547-007IMS	Sample Matrix Spike				Run: SUB-C106081			07/29/08 09:30	
Lead 210	930	pCi/L		79	70	130			
Sample ID: C08070547-007IMSD	Sample Matrix Spike Duplicate				Run: SUB-C106081			07/29/08 09:30	
Lead 210	1400	pCi/L		117	70	130	39	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-R106081	Method Blank				Run: SUB-C106081			07/29/08 09:30	
Lead 210	5	pCi/L							U
Sample ID: LCS-R106081	Laboratory Control Sample				Run: SUB-C106081			07/29/08 09:30	
Lead 210	110	pCi/L		87	70	130			
Method: E909.0M							Batch: C_R105965		
Sample ID: R08070244-003H	Sample Matrix Spike				Run: SUB-C105965			07/25/08 11:45	
Lead 210	510	pCi/L		88	70	130			
Sample ID: R08070244-003H	Sample Matrix Spike Duplicate				Run: SUB-C105965			07/25/08 11:45	
Lead 210	560	pCi/L		95	70	130	8	30	
Sample ID: R08070244-006H	Sample Duplicate				Run: SUB-C105965			07/25/08 11:45	
Lead 210	-3.1	pCi/L					43	30	R
Lead 210 MDC	9.2	pCi/L							
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R105965	Method Blank				Run: SUB-C105965			07/25/08 11:45	
Lead 210	-1	pCi/L							U
Sample ID: LCS-R105965	Laboratory Control Sample				Run: SUB-C105965			07/25/08 11:45	
Lead 210	130	pCi/L		110	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: 10/01/08
Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_19224		
Sample ID: R08070244-009I	Sample Matrix Spike				Run: SUB-C105583			07/31/08 14:15	
Polonium 210	50	pCi/L	1.0	119	70	130			
Sample ID: R08070244-009I	Sample Matrix Spike Duplicate				Run: SUB-C105583			07/31/08 14:15	
Polonium 210	44	pCi/L	1.0	104	70	130	14	30	
Sample ID: LCS-R105583	Laboratory Control Sample				Run: SUB-C105583			07/31/08 14:15	
Polonium 210	80	pCi/L	1.0	93	70	130			
Sample ID: MB-R105583	Method Blank				Run: SUB-C105583			07/31/08 14:15	
Polonium 210	0.2	pCi/L							U
Method: RMO-3008							Batch: C_R106670		
Sample ID: C08070547-004HMS	Sample Matrix Spike				Run: SUB-C106670			08/21/08 17:30	
Polonium 210	80	pCi/L	1.0	72	70	130			
Sample ID: C08070547-004HMSD	Sample Matrix Spike Duplicate				Run: SUB-C106670			08/21/08 17:30	
Polonium 210	95	pCi/L	1.0	84	70	130	17	30	
Sample ID: LCS-R106670	Laboratory Control Sample				Run: SUB-C106670			08/21/08 17:30	
Polonium 210	42	pCi/L	1.0	76	70	130			
Sample ID: MB-R106670	Method Blank				Run: SUB-C106670			08/21/08 17:30	
Polonium 210	0.1	pCi/L							U
Method: SW7470A							Analytical Run: SUB-B114551		
Sample ID: QCS	Initial Calibration Verification Standard							07/23/08 08:21	
Mercury	0.0021	mg/L	0.0010	105	90	110			

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

PLEASE PRINT - Provide as much information as possible.

Company Name: <i>RESVER</i>		Project Name, PWS, Permit, Etc. <i>Powerful DB</i>		Sample Origin State: <i>SD</i>		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>					
Report Mail Address:		Contact Name: <i>Cory Foreman @ resver.com</i>		Phone/Fax:		Sampler: (Please Print) <i>Eric Leane</i>					
Invoice Address:		Invoice Contact & Phone:		Purchase Order:		Quoter/Bottle Order:					
Special Report/Formats - ELL must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> GSA <input type="checkbox"/> Format: _____ <input type="checkbox"/> POTW/MWTP <input type="checkbox"/> LEVEL IV <input type="checkbox"/> State: _____ <input type="checkbox"/> NELAC <input type="checkbox"/> Other: _____				Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other				ANALYSIS REQUESTED <i>As per Dwy</i>			
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)				Collection Date		Collection Time		MATRIX			
<i>DeBurd GW302b</i>				<i>7/13/06</i>		<i>15:28</i>		<i>W</i>			
1				2		3		4			
5				6		7		8			
9				10		11		12			
Redesignated by (print): <i>Eric Leane</i>		Date/Time: <i>7/14/06</i>		Signature: <i>[Signature]</i>		Date/Time: <i>7-14-06 8:00</i>		Signature: <i>[Signature]</i>			
Redesignated by (print): <i>Eric Leane</i>		Date/Time: <i>7/14/06</i>		Signature: <i>[Signature]</i>		Date/Time: <i>7-14-06</i>		Signature: <i>[Signature]</i>			
Signed		Lab Disposal:		Received by Laboratory:		Date/Time:		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.

LABORATORY USE ONLY

On Ice: Yes No
 Receipt Temp: *4.6 °C*
 Cooler Dry:
 Shipped by:
 Custody Seal: Y N
 Intact: Y N
 Signature: Y N
 Match: Y N

85870200-001A



ANALYTICAL SUMMARY REPORT

October 03, 2008

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

Workorder No.: R08070244 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 11 samples from RESPEC Inc on 7/15/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08070244-001	DewBurd GW622	07/14/08 12:35	07/15/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08070244-002	DewBurd GW615	07/14/08 11:50	07/15/08	Aqueous	Same As Above
R08070244-003	DewBurd GW695	07/14/08 13:42	07/15/08	Aqueous	Same As Above
R08070244-004	DewBurd GW696	07/14/08 15:10	07/15/08	Aqueous	Same As Above
R08070244-005	DewBurd GW694	07/14/08 15:30	07/15/08	Aqueous	Same As Above
R08070244-006	DewBurd GW697	07/14/08 15:52	07/15/08	Aqueous	Same As Above
R08070244-007	DewBurd GW697	07/14/08 15:57	07/15/08	Aqueous	Same As Above
R08070244-008	DewBurd GW689	07/14/08 16:50	07/15/08	Aqueous	Same As Above
R08070244-009	DewBurd GW681	07/14/08 17:04	07/15/08	Aqueous	Same As Above
R08070244-010	DewBurd GW698	07/14/08 18:43	07/15/08	Aqueous	Same As Above



ANALYTICAL SUMMARY REPORT

R08070244-011 DewBurd BLK01	07/14/08 18:00 07/15/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
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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



CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08070244

Date: 03-Oct-08

CASE NARRATIVE

The following Case Narrative contains exceptions or comments pertaining to the analysis of samples submitted by RESPEC Inc on 7/15/2008 8:00:00 AM. These samples were assigned ELI Workorder Number R08070244.

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: C08070737

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: C08070737



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-001
 Client Sample ID: DewBurd GW622

Report Date: 10/03/08
 Collection Date: 07/14/08 12:35
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	182	mg/L		5		1	A2320 B	07/15/08 18:22/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/15/08 18:22/mb
Bicarbonate as HCO3	222	mg/L		5		1	A2320 B	07/15/08 18:22/mb
Calcium	85.9	mg/L		0.5		1	E200.7	07/21/08 21:15/eli-c
Chloride	10	mg/L		1		1	E300.0	07/16/08 13:35/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	07/16/08 13:35/jmh
Magnesium	29.1	mg/L		0.5		1	E200.8	07/24/08 03:59/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	07/17/08 16:22/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/16/08 13:35/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/16/08 13:35/jmh
Potassium	14.1	mg/L		0.5		1	E200.7	07/21/08 21:15/eli-c
Silica	1.9	mg/L		0.5		1	E200.7	07/21/08 21:15/eli-c
Sodium	185	mg/L		0.5		1	E200.7	07/21/08 21:15/eli-c
Sulfate	478	mg/L	D	3		50	E300.0	07/16/08 12:46/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1290	umhos/cm		5.0		1	A2510 B	07/17/08 10:23/tb
Oxidation-Reduction Potential	110	mV				1	A2580 B	07/16/08 00:00/kh
pH	7.68	s.u.		0.01		1	A4500-H B	07/16/08 15:53/tb
Sodium Adsorption Ratio (SAR)	4.4	unitless		0.10		1	Calculation	09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	950	mg/L		5		1	A2540 C	07/17/08 17:25/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/24/08 03:59/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	07/24/08 03:59/eli-c
Barium	ND	mg/L		0.1		1	E200.8	07/25/08 23:47/eli-c
Boron	ND	mg/L		0.1		1	E200.7	07/21/08 21:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/25/08 23:47/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	07/24/08 03:59/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/24/08 03:59/eli-c
Iron	ND	mg/L		0.03		1	E200.8	07/25/08 23:47/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/24/08 03:59/eli-c
Manganese	0.19	mg/L		0.01		1	E200.8	07/25/08 23:47/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/24/08 03:59/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	07/24/08 03:59/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	07/24/08 03:59/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/28/08 15:55/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/25/08 23:47/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/24/08 03:59/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070244-001
 Client Sample ID: DewBurd GW622

Report Date: 10/03/08
 Collection Date: 07/14/08 12:35
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0052	mg/L		0.0003		1 E200.8	07/24/08 03:59/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	07/24/08 03:59/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	07/24/08 03:59/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	07/27/08 04:01/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	07/28/08 13:42/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	31.2	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha precision (±)	4.2	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha MDC	3.6	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta	10.0	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	2.5	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	3.8	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Lead 210	2.6	pCi/L	U			1 E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.5	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1 RMO-3008	08/06/08 15:42/eli-c
Polonium 210 precision (±)	0.56	pCi/L				1 RMO-3008	08/06/08 15:42/eli-c
Radium 226	2.9	pCi/L				1 E903.0	08/12/08 13:16/eli-c
Radium 226 precision (±)	0.4	pCi/L				1 E903.0	08/12/08 13:16/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	08/13/08 00:45/eli-c
Thorium 230 precision (±)	0.04	pCi/L				1 E907.0	08/13/08 00:45/eli-c
Gross Gamma	0.0	pCi/L	U	20		1 E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-1	pCi/L	U			1 E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.7	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Polonium 210	2.8	pCi/L		1.0		1 RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1 RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.4	pCi/L	U			1 E903.0	08/06/08 15:36/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	08/06/08 15:36/eli-c
Radium 226 MDC	0.6	pCi/L				1 E903.0	08/06/08 15:36/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070244-001
 Client Sample ID: DewBurd GW622

Report Date: 10/03/08
 Collection Date: 07/14/08 12:35
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	08/04/08 22:05/eli-c
Thorium 230 precision (±)	0.08	pCi/L					1	E907.0	08/04/08 22:05/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	824	pCi/L		100			1	D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	57.9	pCi/L					1	D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/30/08 02:30/eli-c
Arsenic	0.027	mg/L		0.001			10	E200.8	07/31/08 14:30/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/24/08 20:42/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/30/08 02:30/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/24/08 20:42/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/30/08 02:30/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/24/08 20:42/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/24/08 20:42/eli-c
Iron	0.91	mg/L		0.03			2	E200.7	07/24/08 20:42/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/30/08 02:30/eli-c
Manganese	0.19	mg/L		0.01			2	E200.7	07/24/08 20:42/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/23/08 15:17/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/24/08 20:42/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/24/08 20:42/eli-c
Selenium	ND	mg/L	D	0.002			10	E200.8	07/30/08 02:30/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/31/08 14:30/eli-c
Strontium	1.6	mg/L		0.1			2	E200.7	07/24/08 20:42/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/30/08 02:30/eli-c
Uranium	0.0054	mg/L		0.0003			10	E200.8	07/30/08 02:30/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/24/08 20:42/eli-c
DATA QUALITY									
A/C Balance (± 5)	4.15	%					1	A1030 E	09/29/08 00:00/jmh
Anions	13.9	meq/L					1	A1030 E	09/29/08 00:00/jmh
Cations	15.1	meq/L					1	A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	918	mg/L					1	A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.03						1	A1030 E	09/29/08 00:00/jmh

Report RL - Analyte reporting limit.

Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-002
 Client Sample ID: DewBurd GW615

Report Date: 10/03/08
 Collection Date: 07/14/08 11:50
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	138	mg/L		5		1	A2320 B	07/15/08 18:26/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/15/08 18:26/mb
Bicarbonate as HCO3	168	mg/L		5		1	A2320 B	07/15/08 18:26/mb
Calcium	71.8	mg/L		0.5		1	E200.7	07/21/08 21:19/eli-c
Chloride	5	mg/L		1		1	E300.0	07/16/08 14:08/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	07/16/08 14:08/jmh
Magnesium	21.7	mg/L		0.5		1	E200.8	07/24/08 04:06/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	07/17/08 16:24/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/16/08 14:08/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/16/08 14:08/jmh
Potassium	11.7	mg/L		0.5		1	E200.7	07/21/08 21:19/eli-c
Silica	2.0	mg/L		0.5		1	E200.7	07/21/08 21:19/eli-c
Sodium	142	mg/L		0.5		1	E200.7	07/21/08 21:19/eli-c
Sulfate	430	mg/L	D	3		50	E300.0	07/16/08 13:51/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1090	umhos/cm		5.0		1	A2510 B	07/17/08 10:24/tb
Oxidation-Reduction Potential	130	mV				1	A2580 B	07/16/08 00:00/kh
pH	7.29	s.u.		0.01		1	A4500-H B	07/16/08 16:03/tb
Sodium Adsorption Ratio (SAR)	3.8	unitless		0.10		1	Calculation	09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	710	mg/L		5		1	A2540 C	07/17/08 17:26/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/24/08 04:06/eli-c
Arsenic	0.018	mg/L		0.001		1	E200.8	07/25/08 23:53/eli-c
Barium	ND	mg/L		0.1		1	E200.8	07/25/08 23:53/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/11/08 15:43/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/25/08 23:53/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	07/25/08 23:53/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/30/08 18:55/eli-c
Iron	0.54	mg/L		0.03		1	E200.8	07/25/08 23:53/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/25/08 23:53/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	07/25/08 23:53/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/24/08 04:06/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.7	07/21/08 21:19/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	07/25/08 23:53/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/28/08 15:58/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/25/08 23:53/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/25/08 23:53/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070244-002
 Client Sample ID: DewBurd GW615

Report Date: 10/03/08
 Collection Date: 07/14/08 11:50
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0025	mg/L		0.0003		1 E200.8	07/30/08 18:55/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	07/25/08 23:53/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	07/30/08 18:55/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	07/27/08 04:05/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	07/28/08 13:44/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	15.3	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha precision (±)	2.8	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha MDC	2.8	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta	7.0	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	1.8	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	2.9	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Lead 210	-0.8	pCi/L	U			1 E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.5	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	08/06/08 15:43/eli-c
Polonium 210 precision (±)	0.45	pCi/L				1 RMO-3008	08/06/08 15:43/eli-c
Radium 226	1.2	pCi/L				1 E903.0	08/12/08 13:16/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	08/12/08 13:16/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	08/13/08 12:43/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	08/13/08 12:43/eli-c
Gross Gamma	0.0	pCi/L	U	20		1 E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-2	pCi/L	U			1 E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.7	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.26	pCi/L				1 RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.4	pCi/L	U			1 E903.0	08/06/08 15:36/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	08/06/08 15:36/eli-c
Radium 226 MDC	0.6	pCi/L				1 E903.0	08/06/08 15:36/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070244-002
 Client Sample ID: DewBurd GW615

Report Date: 10/03/08
 Collection Date: 07/14/08 11:50
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.1	pCi/L		0.2			1	E907.0	08/04/08 22:05/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	08/04/08 22:05/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1420	pCi/L		100			1	D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	65.0	pCi/L					1	D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES									
Antimony	0.003	mg/L		0.003			10	E200.8	07/30/08 04:05/eli-c
Arsenic	0.023	mg/L		0.001			10	E200.8	07/30/08 04:05/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/24/08 23:52/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/30/08 04:05/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	07/24/08 23:52/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/30/08 04:05/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/24/08 23:52/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/24/08 23:52/eli-c
Iron	1.52	mg/L		0.03			2	E200.7	07/24/08 23:52/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/30/08 04:05/eli-c
Manganese	0.07	mg/L		0.01			2	E200.7	07/24/08 23:52/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/23/08 15:19/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/24/08 23:52/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/24/08 23:52/eli-c
Selenium	0.003	mg/L	D	0.002			10	E200.8	07/30/08 04:05/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/31/08 14:37/eli-c
Strontium	1.4	mg/L		0.1			2	E200.7	07/24/08 23:52/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/30/08 04:05/eli-c
Uranium	0.0025	mg/L		0.0003			10	E200.8	07/31/08 14:37/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/24/08 23:52/eli-c
DATA QUALITY									
A/C Balance (± 5)	-0.0400	%					1	A1030 E	09/29/08 00:00/jmh
Anions	11.9	meq/L					1	A1030 E	09/29/08 00:00/jmh
Cations	11.9	meq/L					1	A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	771	mg/L					1	A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.930						1	A1030 E	09/29/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: R08070244-003
 Client Sample ID: DewBurd GW695

Report Date: 10/03/08
 Collection Date: 07/14/08 13:42
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	174	mg/L		5		1	A2320 B 07/15/08 18:28/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/15/08 18:28/mb
Bicarbonate as HCO3	212	mg/L		5		1	A2320 B 07/15/08 18:28/mb
Calcium	48.0	mg/L		0.5		1	E200.7 07/21/08 21:24/eli-c
Chloride	12	mg/L		1		1	E300.0 07/16/08 14:40/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0 07/16/08 14:40/jmh
Magnesium	17.8	mg/L		0.5		1	E200.8 07/24/08 04:12/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G 07/17/08 16:25/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 07/16/08 14:40/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 07/16/08 14:40/jmh
Potassium	12.4	mg/L		0.5		1	E200.7 07/21/08 21:24/eli-c
Silica	1.9	mg/L		0.5		1	E200.7 07/21/08 21:24/eli-c
Sodium	258	mg/L		0.5		1	E200.7 07/21/08 21:24/eli-c
Sulfate	534	mg/L	D	3		50	E300.0 07/16/08 14:24/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1450	umhos/cm		5.0		1	A2510 B 07/17/08 10:25/tb
Oxidation-Reduction Potential	150	mV				1	A2580 B 07/16/08 00:00/kh
pH	7.98	s.u.		0.01		1	A4500-H B 07/16/08 16:03/tb
Sodium Adsorption Ratio (SAR)	8.1	unitless		0.10		1	Calculation 09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	950	mg/L		5		1	A2540 C 07/17/08 17:28/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 07/24/08 04:12/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 07/26/08 00:00/eli-c
Barium	ND	mg/L		0.1		1	E200.8 07/26/08 00:00/eli-c
Boron	ND	mg/L		0.1		2	E200.7 09/11/08 15:55/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 07/26/08 00:00/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 07/26/08 00:00/eli-c
Copper	ND	mg/L		0.01		1	E200.8 07/26/08 00:00/eli-c
Iron	ND	mg/L		0.03		2	E200.7 07/28/08 16:41/eli-c
Lead	ND	mg/L		0.001		1	E200.8 07/24/08 04:12/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8 07/26/08 00:00/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 07/24/08 04:12/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 07/26/08 00:00/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 07/26/08 00:00/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 07/28/08 16:00/eli-c
Silver	ND	mg/L		0.005		1	E200.8 07/26/08 00:00/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 07/24/08 04:12/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070244-003
 Client Sample ID: DewBurd GW695

Report Date: 10/03/08
 Collection Date: 07/14/08 13:42
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
METALS - DISSOLVED							
Uranium	0.0028	mg/L		0.0003		1 E200.8	07/24/08 04:12/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	07/26/08 00:00/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	07/26/08 00:00/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	07/27/08 04:22/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	07/28/08 13:47/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	28.2	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha precision (±)	4.2	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha MDC	3.9	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta	7.7	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	2.4	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	3.9	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Lead 210	-2	pCi/L	U			1 E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.5	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1 RMO-3008	08/06/08 15:43/eli-c
Polonium 210 precision (±)	0.49	pCi/L				1 RMO-3008	08/06/08 15:43/eli-c
Radium 226	4.7	pCi/L				1 E903.0	08/12/08 13:16/eli-c
Radium 226 precision (±)	0.5	pCi/L				1 E903.0	08/12/08 13:16/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	08/13/08 12:43/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1 E907.0	08/13/08 12:43/eli-c
Gross Gamma	0.0	pCi/L	U	20		1 E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-5	pCi/L	U			1 E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.7	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1 RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.35	pCi/L				1 RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.4	pCi/L	U			1 E903.0	08/06/08 15:36/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	08/06/08 15:36/eli-c
Radium 226 MDC	0.6	pCi/L				1 E903.0	08/06/08 15:36/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070244-003
 Client Sample ID: DewBurd GW695

Report Date: 10/03/08
 Collection Date: 07/14/08 13:42
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	08/05/08 12:51/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	08/05/08 12:51/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1490	pCi/L		100			1	D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	65.0	pCi/L					1	D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/30/08 04:12/eli-c
Arsenic	0.004	mg/L		0.002			10	E200.8	07/30/08 04:12/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/24/08 23:56/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/30/08 04:12/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	07/24/08 23:56/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/30/08 04:12/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/24/08 23:56/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/24/08 23:56/eli-c
Iron	0.16	mg/L		0.03			2	E200.7	07/24/08 23:56/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/30/08 04:12/eli-c
Manganese	0.09	mg/L		0.01			2	E200.7	07/24/08 23:56/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/23/08 15:22/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/24/08 23:56/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/24/08 23:56/eli-c
Selenium	0.004	mg/L	D	0.002			10	E200.8	07/30/08 04:12/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/31/08 14:43/eli-c
Strontium	1.0	mg/L		0.1			2	E200.7	07/24/08 23:56/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/30/08 04:12/eli-c
Uranium	0.0031	mg/L		0.0003			10	E200.8	07/31/08 14:43/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/24/08 23:56/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.44	%					1	A1030 E	09/29/08 00:00/jmh
Anions	15.0	meq/L					1	A1030 E	09/29/08 00:00/jmh
Cations	15.4	meq/L					1	A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	991	mg/L					1	A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960						1	A1030 E	09/29/08 00:00/jmh

Report RL - Analyte reporting limit.

Definitions: 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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-004
 Client Sample ID: DewBurd GW696

Report Date: 10/03/08
 Collection Date: 07/14/08 15:10
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
MAJOR IONS							
Alkalinity, Total as CaCO3	180	mg/L		5	1	A2320 B	07/15/08 18:51/mb
Carbonate as CO3	ND	mg/L		5	1	A2320 B	07/15/08 18:51/mb
Bicarbonate as HCO3	219	mg/L		5	1	A2320 B	07/15/08 18:51/mb
Calcium	28.8	mg/L		0.5	1	E200.7	07/21/08 21:36/eli-c
Chloride	13	mg/L		1	1	E300.0	07/16/08 15:13/jmh
Fluoride	0.5	mg/L		0.1	1	E300.0	07/16/08 15:13/jmh
Magnesium	10.2	mg/L		0.5	1	E200.8	07/24/08 04:19/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1	1	A4500-NH3 G	07/17/08 16:26/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1	1	E300.0	07/16/08 15:13/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1	1	E300.0	07/16/08 15:13/jmh
Potassium	13.4	mg/L		0.5	1	E200.7	07/21/08 21:36/eli-c
Silica	2.1	mg/L		0.5	1	E200.7	07/21/08 21:36/eli-c
Sodium	291	mg/L		0.5	1	E200.7	07/21/08 21:36/eli-c
Sulfate	526	mg/L	D	3	50	E300.0	07/16/08 14:57/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1350	umhos/cm		5.0	1	A2510 B	07/17/08 10:26/tb
Oxidation-Reduction Potential	100	mV			1	A2580 B	07/16/08 00:00/kh
pH	8.19	s.u.		0.01	1	A4500-H B	07/16/08 16:03/tb
Sodium Adsorption Ratio (SAR)	12	unitless		0.10	1	Calculation	09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	930	mg/L		5	1	A2540 C	07/17/08 17:29/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1	1	E200.8	07/24/08 04:19/eli-c
Arsenic	ND	mg/L		0.001	1	E200.8	07/26/08 00:07/eli-c
Barium	ND	mg/L		0.1	1	E200.8	07/26/08 00:07/eli-c
Boron	ND	mg/L		0.1	2	E200.7	09/11/08 16:03/eli-c
Cadmium	ND	mg/L		0.005	1	E200.8	07/26/08 00:07/eli-c
Chromium	ND	mg/L		0.05	1	E200.8	07/26/08 00:07/eli-c
Copper	ND	mg/L		0.01	1	E200.8	07/26/08 00:07/eli-c
Iron	0.08	mg/L		0.03	2	E200.7	09/11/08 16:03/eli-c
Lead	ND	mg/L		0.001	1	E200.8	07/24/08 04:19/eli-c
Manganese	0.06	mg/L		0.01	1	E200.8	07/24/08 04:19/eli-c
Mercury	ND	mg/L		0.001	1	E200.8	07/24/08 04:19/eli-c
Molybdenum	ND	mg/L		0.1	1	E200.8	07/26/08 00:07/eli-c
Nickel	ND	mg/L		0.05	1	E200.8	07/26/08 00:07/eli-c
Selenium	ND	mg/L		0.001	1	A3114 B	07/28/08 16:02/eli-c
Silver	ND	mg/L		0.005	1	E200.8	07/26/08 00:07/eli-c
Thorium 232	ND	mg/L		0.005	1	E200.8	07/24/08 04:19/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070244-004
 Client Sample ID: DewBurd GW696

Report Date: 10/03/08
 Collection Date: 07/14/08 15:10
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/24/08 04:19/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/26/08 00:07/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	07/28/08 17:06/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/27/08 04:26/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/28/08 13:49/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	4.0	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Alpha precision (±)	2.6	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Alpha MDC	3.8	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Beta	3.7	pCi/L	U			1	E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	2.4	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	3.9	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Lead 210	-3	pCi/L	U			1	E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.5	pCi/L				1	E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L				1	E909.0M	07/25/08 11:45/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008	08/06/08 15:43/eli-c
Polonium 210 precision (±)	0.43	pCi/L				1	RMO-3008	08/06/08 15:43/eli-c
Radium 226	0.4	pCi/L				1	E903.0	08/12/08 13:16/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/12/08 13:16/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/13/08 12:43/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	08/13/08 12:43/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	1.1	pCi/L	U			1	E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.8	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.17	pCi/L				1	RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	08/06/08 15:36/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/06/08 15:36/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	08/06/08 15:36/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070244-004
 Client Sample ID: DewBurd GW696

Report Date: 10/03/08
 Collection Date: 07/14/08 15:10
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/05/08 12:51/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	08/05/08 12:51/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	228	pCi/L		100		1	D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	49.3	pCi/L				1	D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		10	E200.8	07/30/08 04:18/eli-c
Arsenic	0.003	mg/L		0.002		10	E200.8	07/30/08 04:18/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/25/08 00:00/eli-c
Beryllium	ND	mg/L		0.001		10	E200.8	07/31/08 14:50/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/25/08 00:00/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/30/08 04:18/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/25/08 00:00/eli-c
Copper	ND	mg/L		0.01		2	E200.7	07/25/08 00:00/eli-c
Iron	0.14	mg/L		0.03		2	E200.7	07/25/08 00:00/eli-c
Lead	ND	mg/L		0.001		10	E200.8	07/30/08 04:18/eli-c
Manganese	0.07	mg/L		0.01		2	E200.7	07/25/08 00:00/eli-c
Mercury	ND	mg/L		0.0002		1	E245.1	07/23/08 15:24/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	07/25/08 00:00/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/25/08 00:00/eli-c
Selenium	ND	mg/L	D	0.002		10	E200.8	07/30/08 04:18/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/31/08 14:50/eli-c
Strontium	0.8	mg/L		0.1		2	E200.7	07/25/08 00:00/eli-c
Thallium	ND	mg/L		0.001		10	E200.8	07/30/08 04:18/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	07/30/08 04:18/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/25/08 00:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.30	%				1	A1030 E	09/29/08 00:00/jmh
Anions	14.9	meq/L				1	A1030 E	09/29/08 00:00/jmh
Cations	15.3	meq/L				1	A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	996	mg/L				1	A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.930					1	A1030 E	09/29/08 00:00/jmh

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 12 of 33
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-005
 Client Sample ID: DewBurd GW694

Report Date: 10/03/08
 Collection Date: 07/14/08 15:30
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	206	mg/L		5		1	A2320 B 07/15/08 18:53/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/15/08 18:53/mb
Bicarbonate as HCO3	251	mg/L		5		1	A2320 B 07/15/08 18:53/mb
Calcium	92.0	mg/L		0.5		1	E200.7 07/21/08 21:41/eli-c
Chloride	9	mg/L		1		1	E300.0 07/16/08 16:52/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0 07/16/08 16:52/jmh
Magnesium	36.9	mg/L		0.5		1	E200.8 07/24/08 04:26/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G 07/17/08 16:27/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 07/16/08 16:52/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 07/16/08 16:52/jmh
Potassium	17.6	mg/L		0.5		1	E200.7 07/21/08 21:41/eli-c
Silica	2.1	mg/L		0.5		1	E200.7 07/21/08 21:41/eli-c
Sodium	185	mg/L		0.5		1	E200.7 07/21/08 21:41/eli-c
Sulfate	528	mg/L	D	3		50	E300.0 07/16/08 16:03/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1320	umhos/cm		5.0		1	A2510 B 07/17/08 10:27/tb
Oxidation-Reduction Potential	160	mV				1	A2580 B 07/16/08 00:00/kh
pH	7.73	s.u.		0.01		1	A4500-H B 07/16/08 16:02/tb
Sodium Adsorption Ratio (SAR)	4.1	unitless		0.10		1	Calculation 09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	980	mg/L		5		1	A2540 C 07/17/08 17:29/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 07/24/08 04:26/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 07/30/08 19:02/eli-c
Barium	ND	mg/L		0.1		1	E200.7 07/21/08 21:41/eli-c
Boron	ND	mg/L		0.1		1	E200.7 07/21/08 21:41/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 07/26/08 00:13/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 07/26/08 00:13/eli-c
Copper	ND	mg/L		0.01		1	E200.8 07/28/08 17:13/eli-c
Iron	ND	mg/L		0.03		1	E200.7 07/21/08 21:41/eli-c
Lead	ND	mg/L		0.001		1	E200.8 07/24/08 04:26/eli-c
Manganese	0.10	mg/L		0.01		1	E200.7 07/21/08 21:41/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 07/24/08 04:26/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.7 07/21/08 21:41/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 07/26/08 00:13/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 07/28/08 16:08/eli-c
Silver	ND	mg/L		0.005		1	E200.8 07/26/08 00:13/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 07/24/08 04:26/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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. Page 13 of 33



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-005
 Client Sample ID: DewBurd GW694

Report Date: 10/03/08
 Collection Date: 07/14/08 15:30
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0007	mg/L		0.0003		1	E200.8	07/24/08 04:26/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/26/08 00:13/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	07/28/08 17:13/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/27/08 04:30/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/28/08 13:55/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	15.1	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Alpha precision (±)	3.3	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Alpha MDC	3.7	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Beta	11.1	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	3.9	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Lead 210	1.1	pCi/L	U			1	E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.5	pCi/L				1	E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L				1	E909.0M	07/25/08 11:45/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	08/06/08 15:43/eli-c
Polonium 210 precision (±)	0.61	pCi/L				1	RMO-3008	08/06/08 15:43/eli-c
Radium 226	2.3	pCi/L				1	E903.0	08/12/08 13:16/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	08/12/08 13:16/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/13/08 12:43/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	08/13/08 12:43/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.2	pCi/L	U			1	E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.8	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.51	pCi/L				1	RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	08/06/08 15:36/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/06/08 15:36/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	08/06/08 15:36/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070244-005
 Client Sample ID: DewBurd GW694

Report Date: 10/03/08
 Collection Date: 07/14/08 15:30
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	08/05/08 12:51/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	08/05/08 12:51/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	245	pCi/L		100			1	D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	49.4	pCi/L					1	D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/30/08 04:25/eli-c
Arsenic	0.007	mg/L		0.002			10	E200.8	07/30/08 04:25/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/25/08 00:04/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/31/08 14:57/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/25/08 00:04/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/30/08 04:25/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/25/08 00:04/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/25/08 00:04/eli-c
Iron	0.17	mg/L		0.03			2	E200.7	07/25/08 00:04/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/30/08 04:25/eli-c
Manganese	0.16	mg/L		0.01			2	E200.7	07/25/08 00:04/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/23/08 15:26/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/25/08 00:04/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/25/08 00:04/eli-c
Selenium	0.005	mg/L	D	0.002			10	E200.8	07/30/08 04:25/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/31/08 14:57/eli-c
Strontium	2.7	mg/L		0.1			2	E200.7	07/25/08 00:04/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/30/08 04:25/eli-c
Uranium	0.0005	mg/L		0.0003			10	E200.8	07/30/08 04:25/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/25/08 00:04/eli-c
DATA QUALITY									
A/C Balance (± 5)	2.38	%					1	A1030 E	09/29/08 00:00/jmh
Anions	15.4	meq/L					1	A1030 E	09/29/08 00:00/jmh
Cations	16.2	meq/L					1	A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	999	mg/L					1	A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.980						1	A1030 E	09/29/08 00:00/jmh

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

D - RL increased due to sample matrix interference.

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-006
 Client Sample ID: DewBurd GW697

Report Date: 10/03/08
 Collection Date: 07/14/08 15:52
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B 07/15/08 18:57/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/15/08 18:57/mb
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B 07/15/08 18:57/mb
Calcium	48.7	mg/L		0.5		1	E200.7 07/21/08 21:45/eli-c
Chloride	8	mg/L		1		1	E300.0 07/16/08 17:25/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0 07/16/08 17:25/jmh
Magnesium	17.5	mg/L		0.5		1	E200.8 07/24/08 04:33/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G 07/17/08 16:31/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 07/16/08 17:25/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 07/16/08 17:25/jmh
Potassium	11.8	mg/L		0.5		1	E200.7 07/21/08 21:45/eli-c
Silica	2.0	mg/L		0.5		1	E200.7 07/21/08 21:45/eli-c
Sodium	221	mg/L		0.5		1	E200.7 07/21/08 21:45/eli-c
Sulfate	470	mg/L	D	3		50	E300.0 07/16/08 17:08/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1290	umhos/cm		5.0		1	A2510 B 07/17/08 10:28/tb
Oxidation-Reduction Potential	160	mV				1	A2580 B 07/16/08 00:00/kh
pH	7.93	s.u.		0.01		1	A4500-H B 07/16/08 16:02/tb
Sodium Adsorption Ratio (SAR)	6.9	unitless		0.10		1	Calculation 09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	830	mg/L		5		1	A2540 C 07/17/08 17:30/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 07/24/08 04:33/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 07/30/08 19:08/eli-c
Barium	ND	mg/L		0.1		1	E200.8 07/26/08 00:20/eli-c
Boron	ND	mg/L		0.1		2	E200.7 09/11/08 16:07/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 07/26/08 00:20/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 07/28/08 17:20/eli-c
Copper	ND	mg/L		0.01		2	E200.7 09/11/08 16:07/eli-c
Iron	0.04	mg/L		0.03		2	E200.7 09/11/08 16:07/eli-c
Lead	ND	mg/L		0.001		1	E200.8 07/26/08 00:20/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8 07/28/08 17:20/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 07/26/08 00:20/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 07/26/08 00:20/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 07/28/08 17:20/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 07/28/08 16:10/eli-c
Silver	ND	mg/L		0.005		1	E200.8 07/26/08 00:20/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 07/26/08 00:20/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070244-006
 Client Sample ID: DewBurd GW697

Report Date: 10/03/08
 Collection Date: 07/14/08 15:52
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	ND	mg/L		0.0003		1 E200.8	07/28/08 17:20/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	07/28/08 17:20/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	07/28/08 17:20/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	07/27/08 04:34/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	07/28/08 13:57/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	6.9	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha precision (±)	2.4	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha MDC	3.1	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta	4.6	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	1.8	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	2.9	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Lead 210	-2	pCi/L	U			1 E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.5	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Polonium 210	-0.4	pCi/L	U	1.0		1 RMO-3008	08/07/08 14:50/eli-c
Polonium 210 precision (±)	0.69	pCi/L				1 RMO-3008	08/07/08 14:50/eli-c
Radium 226	0.9	pCi/L				1 E903.0	08/12/08 13:16/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	08/12/08 13:16/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	08/13/08 12:43/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1 E907.0	08/13/08 12:43/eli-c
Gross Gamma	0.0	pCi/L	U	20		1 E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	3.6	pCi/L	U			1 E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.8	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1 RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.43	pCi/L				1 RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.1	pCi/L	U			1 E903.0	08/06/08 15:36/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	08/06/08 15:36/eli-c
Radium 226 MDC	0.6	pCi/L				1 E903.0	08/06/08 15:36/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070244-006
 Client Sample ID: DewBurd GW697

Report Date: 10/03/08
 Collection Date: 07/14/08 15:52
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	08/05/08 12:51/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	08/05/08 12:51/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	295	pCi/L		100			1	D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	50.0	pCi/L					1	D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/30/08 04:32/eli-c
Arsenic	0.004	mg/L		0.002			10	E200.8	07/30/08 04:32/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/25/08 00:08/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/31/08 15:04/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/25/08 00:08/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/31/08 15:04/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/25/08 00:08/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/25/08 00:08/eli-c
Iron	0.06	mg/L		0.03			2	E200.7	07/25/08 00:08/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/30/08 04:32/eli-c
Manganese	0.06	mg/L		0.01			2	E200.7	07/25/08 00:08/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/23/08 15:33/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/25/08 00:08/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/25/08 00:08/eli-c
Selenium	0.003	mg/L	D	0.002			10	E200.8	07/30/08 04:32/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/31/08 15:04/eli-c
Strontium	1.1	mg/L		0.1			2	E200.7	07/25/08 00:08/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/30/08 04:32/eli-c
Uranium	0.0003	mg/L		0.0003			10	E200.8	07/30/08 04:32/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/25/08 00:08/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.61	%					1	A1030 E	09/29/08 00:00/jmh
Anions	13.4	meq/L					1	A1030 E	09/29/08 00:00/jmh
Cations	13.8	meq/L					1	A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	884	mg/L					1	A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.940						1	A1030 E	09/29/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 18 of 33
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-007
 Client Sample ID: DewBurd GW697

Report Date: 10/03/08
 Collection Date: 07/14/08 15:57
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	168	mg/L		5		1	A2320 B	07/15/08 18:59/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/15/08 18:59/mb
Bicarbonate as HCO3	205	mg/L		5		1	A2320 B	07/15/08 18:59/mb
Calcium	49.5	mg/L		0.5		1	E200.7	07/21/08 22:02/eli-c
Chloride	8	mg/L		1		1	E300.0	07/16/08 17:58/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	07/16/08 17:58/jmh
Magnesium	17.2	mg/L		0.5		1	E200.8	07/24/08 05:07/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	07/17/08 16:34/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/16/08 17:58/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/16/08 17:58/jmh
Potassium	12.0	mg/L		0.5		1	E200.7	07/21/08 22:02/eli-c
Silica	2.0	mg/L		0.5		1	E200.7	07/21/08 22:02/eli-c
Sodium	205	mg/L	D	2		2	E200.7	07/24/08 17:59/eli-c
Sulfate	492	mg/L	D	3		50	E300.0	07/16/08 17:41/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1300	umhos/cm		5.0		1	A2510 B	07/17/08 10:30/tb
Oxidation-Reduction Potential	180	mV				1	A2580 B	07/16/08 00:00/kh
pH	7.99	s.u.		0.01		1	A4500-H B	07/16/08 16:02/tb
Sodium Adsorption Ratio (SAR)	6.4	unitless		0.10		1	Calculation	09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	820	mg/L		5		1	A2540 C	07/17/08 17:30/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/24/08 05:07/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	07/30/08 19:42/eli-c
Barium	ND	mg/L		0.1		1	E200.8	07/26/08 00:26/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/11/08 16:11/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/26/08 00:26/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/24/08 17:59/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/26/08 00:26/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	07/24/08 17:59/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/24/08 05:07/eli-c
Manganese	0.05	mg/L		0.01		2	E200.7	07/24/08 17:59/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/24/08 05:07/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	07/26/08 00:26/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/24/08 17:59/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/28/08 16:12/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/26/08 00:26/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/24/08 05:07/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070244-007
 Client Sample ID: DewBurd GW697

Report Date: 10/03/08
 Collection Date: 07/14/08 15:57
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/24/08 05:07/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/24/08 17:59/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	07/30/08 19:42/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/27/08 04:38/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/28/08 13:59/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	6.8	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Alpha precision (±)	2.6	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Alpha MDC	3.4	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Beta	7.3	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	2.1	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	3.3	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Lead 210	0.3	pCi/L	U			1	E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.5	pCi/L				1	E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L				1	E909.0M	07/25/08 11:45/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	08/07/08 14:50/eli-c
Polonium 210 precision (±)	0.69	pCi/L				1	RMO-3008	08/07/08 14:50/eli-c
Radium 226	0.9	pCi/L				1	E903.0	08/12/08 13:16/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/12/08 13:16/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/13/08 12:43/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	08/13/08 12:43/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-3	pCi/L	U			1	E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.7	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	08/06/08 17:08/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/06/08 17:08/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	08/06/08 17:08/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070244-007
 Client Sample ID: DewBurd GW697

Report Date: 10/03/08
 Collection Date: 07/14/08 15:57
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	08/05/08 12:51/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	08/05/08 12:51/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	261	pCi/L		100			1	D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	49.5	pCi/L					1	D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/30/08 04:39/eli-c
Arsenic	0.004	mg/L		0.002			10	E200.8	07/30/08 04:39/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/25/08 00:12/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/30/08 04:39/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/25/08 00:12/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/30/08 04:39/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/25/08 00:12/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/25/08 00:12/eli-c
Iron	0.06	mg/L		0.03			2	E200.7	07/25/08 00:12/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/30/08 04:39/eli-c
Manganese	0.06	mg/L		0.01			2	E200.7	07/25/08 00:12/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/23/08 15:36/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/25/08 00:12/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/25/08 00:12/eli-c
Selenium	ND	mg/L	D	0.002			10	E200.8	07/30/08 04:39/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/31/08 15:11/eli-c
Strontium	1.1	mg/L		0.1			2	E200.7	07/25/08 00:12/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/30/08 04:39/eli-c
Uranium	ND	mg/L		0.0003			10	E200.8	07/30/08 04:39/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/25/08 00:12/eli-c
DATA QUALITY									
A/C Balance (± 5)	-2.81	%					1	A1030 E	09/29/08 00:00/jmh
Anions	13.9	meq/L					1	A1030 E	09/29/08 00:00/jmh
Cations	13.1	meq/L					1	A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	890	mg/L					1	A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.930						1	A1030 E	09/29/08 00:00/jmh

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 21 of 33
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-008
 Client Sample ID: DewBurd GW689

Report Date: 10/03/08
 Collection Date: 07/14/08 16:50
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	148	mg/L		5		1	A2320 B	07/15/08 19:07/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/15/08 19:07/mb
Bicarbonate as HCO3	180	mg/L		5		1	A2320 B	07/15/08 19:07/mb
Calcium	44.8	mg/L		0.5		1	E200.7	07/21/08 22:06/eli-c
Chloride	5	mg/L		1		1	E300.0	07/16/08 18:30/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	07/16/08 18:30/jmh
Magnesium	16.4	mg/L		0.5		1	E200.8	07/24/08 05:27/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	07/17/08 16:35/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/16/08 18:30/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/16/08 18:30/jmh
Potassium	10.7	mg/L		0.5		1	E200.7	07/21/08 22:06/eli-c
Silica	2.0	mg/L		0.5		1	E200.7	07/21/08 22:06/eli-c
Sodium	173	mg/L	D	2		2	E200.7	07/24/08 18:03/eli-c
Sulfate	420	mg/L	D	3		50	E300.0	07/16/08 18:14/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1040	umhos/cm		5.0		1	A2510 B	07/17/08 10:32/tb
Oxidation-Reduction Potential	190	mV				1	A2580 B	07/16/08 00:00/kh
pH	7.83	s.u.		0.01		1	A4500-H B	07/16/08 16:02/tb
Sodium Adsorption Ratio (SAR)	5.6	unitless		0.10		1	Calculation	09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	730	mg/L		5		1	A2540 C	07/17/08 17:31/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/24/08 05:27/eli-c
Arsenic	ND	mg/L	D	0.02		1	E200.7	07/21/08 22:06/eli-c
Barium	ND	mg/L		0.1		1	E200.8	07/26/08 00:33/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/24/08 18:03/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/26/08 00:33/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/24/08 18:03/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/30/08 19:49/eli-c
Iron	ND	mg/L		0.03		2	E200.7	09/11/08 16:27/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/24/08 05:27/eli-c
Manganese	0.04	mg/L		0.01		2	E200.7	07/24/08 18:03/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/24/08 05:27/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.7	07/21/08 22:06/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	07/30/08 19:49/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/28/08 16:19/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/26/08 00:33/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/24/08 05:27/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070244-008
 Client Sample ID: DewBurd GW689

Report Date: 10/03/08
 Collection Date: 07/14/08 16:50
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0034	mg/L		0.0003		1 E200.8	07/24/08 05:27/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	07/24/08 18:03/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	07/30/08 19:49/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	07/27/08 04:42/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	07/28/08 14:06/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	36.0	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha precision (±)	3.9	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha MDC	3.0	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta	9.5	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	1.9	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	2.9	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Lead 210	-0.4	pCi/L	U			1 E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.5	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1 RMO-3008	08/07/08 14:50/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1 RMO-3008	08/07/08 14:50/eli-c
Radium 226	6.1	pCi/L				1 E903.0	08/12/08 13:16/eli-c
Radium 226 precision (±)	0.6	pCi/L				1 E903.0	08/12/08 13:16/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	08/13/08 12:43/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1 E907.0	08/13/08 12:43/eli-c
Gross Gamma	0.0	pCi/L	U	20		1 E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-0.1	pCi/L	U			1 E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.8	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.28	pCi/L				1 RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.4	pCi/L	U			1 E903.0	08/06/08 17:08/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	08/06/08 17:08/eli-c
Radium 226 MDC	0.6	pCi/L				1 E903.0	08/06/08 17:08/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070244-008
 Client Sample ID: DewBurd GW689

Report Date: 10/03/08
 Collection Date: 07/14/08 16:50
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.2	pCi/L	U	0.2			1	E907.0	08/05/08 12:51/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	08/05/08 12:51/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1670	pCi/L		100			1	D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	65.8	pCi/L					1	D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/30/08 04:46/eli-c
Arsenic	ND	mg/L	D	0.001			10	E200.8	07/30/08 04:46/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/25/08 00:16/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/30/08 04:46/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/25/08 00:16/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/30/08 04:46/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/25/08 00:16/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/25/08 00:16/eli-c
Iron	0.82	mg/L		0.03			2	E200.7	07/25/08 00:16/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/30/08 04:46/eli-c
Manganese	0.06	mg/L		0.01			2	E200.7	07/25/08 00:16/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/23/08 15:38/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/25/08 00:16/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/25/08 00:16/eli-c
Selenium	ND	mg/L	D	0.002			10	E200.8	07/30/08 04:46/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/31/08 15:17/eli-c
Strontium	1.0	mg/L		0.1			2	E200.7	07/25/08 00:16/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/30/08 04:46/eli-c
Uranium	0.0041	mg/L		0.0003			10	E200.8	07/30/08 04:46/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/25/08 00:16/eli-c
DATA QUALITY									
A/C Balance (± 5)	-2.08	%					1	A1030 E	09/29/08 00:00/jmh
Anions	11.9	meq/L					1	A1030 E	09/29/08 00:00/jmh
Cations	11.4	meq/L					1	A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	766	mg/L					1	A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950						1	A1030 E	09/29/08 00:00/jmh

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 24 of 33
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-009
 Client Sample ID: DewBurd GW681

Report Date: 10/03/08
 Collection Date: 07/14/08 17:04
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	172	mg/L		5		1	A2320 B 07/15/08 19:09/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/15/08 19:09/mb
Bicarbonate as HCO3	210	mg/L		5		1	A2320 B 07/15/08 19:09/mb
Calcium	60.6	mg/L		0.5		1	E200.7 07/21/08 22:14/eli-c
Chloride	17	mg/L		1		1	E300.0 07/16/08 20:09/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0 07/16/08 20:09/jmh
Magnesium	24.3	mg/L		0.5		1	E200.8 07/24/08 05:33/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 07/17/08 16:36/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 07/16/08 20:09/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 07/16/08 20:09/jmh
Potassium	13.7	mg/L		0.5		1	E200.7 07/21/08 22:14/eli-c
Silica	1.9	mg/L		0.5		1	E200.7 07/21/08 22:14/eli-c
Sodium	214	mg/L	D	2		2	E200.7 07/24/08 18:08/eli-c
Sulfate	619	mg/L		1		1	E300.0 07/16/08 20:09/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1380	umhos/cm		5.0		1	A2510 B 07/17/08 10:32/tb
Oxidation-Reduction Potential	150	mV				1	A2580 B 07/16/08 00:00/kh
pH	7.85	s.u.		0.01		1	A4500-H B 07/16/08 16:02/tb
Sodium Adsorption Ratio (SAR)	5.9	unitless		0.10		1	Calculation 09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5		1	A2540 C 07/17/08 17:31/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 07/24/08 05:33/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 07/26/08 00:40/eli-c
Barium	ND	mg/L		0.1		1	E200.8 07/26/08 00:40/eli-c
Boron	ND	mg/L		0.1		2	E200.7 09/11/08 16:31/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 07/26/08 00:40/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 07/24/08 18:08/eli-c
Copper	ND	mg/L		0.01		2	E200.7 07/24/08 18:08/eli-c
Iron	ND	mg/L		0.03		2	E200.7 09/11/08 16:31/eli-c
Lead	ND	mg/L		0.001		1	E200.8 07/24/08 05:33/eli-c
Manganese	0.09	mg/L		0.01		2	E200.7 07/24/08 18:08/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 07/24/08 05:33/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 07/26/08 00:40/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 07/24/08 18:08/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 07/28/08 16:21/eli-c
Silver	ND	mg/L		0.005		1	E200.8 07/26/08 00:40/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 07/24/08 05:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070244-009
 Client Sample ID: DewBurd GW681

Report Date: 10/03/08
 Collection Date: 07/14/08 17:04
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0097	mg/L		0.0003		1 E200.8	07/24/08 05:33/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	07/24/08 18:08/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	07/24/08 18:08/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	07/27/08 04:46/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	07/28/08 14:09/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	2170	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha precision (±)	30.3	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha MDC	3.7	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta	583	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	7.4	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	3.8	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Lead 210	26.3	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.9	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Polonium 210	3.1	pCi/L		1.0		1 RMO-3008	08/07/08 14:50/eli-c
Polonium 210 precision (±)	1.8	pCi/L				1 RMO-3008	08/07/08 14:50/eli-c
Radium 226	418	pCi/L				1 E903.0	08/12/08 13:16/eli-c
Radium 226 precision (±)	4.3	pCi/L				1 E903.0	08/12/08 13:16/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1 E907.0	08/13/08 12:43/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1 E907.0	08/13/08 12:43/eli-c
Gross Gamma	13000	pCi/L		20		1 E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	260	pCi/L				1 E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	3.7	pCi/L	U			1 E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.8	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.9	pCi/L	U	1.0		1 RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.56	pCi/L				1 RMO-3008	07/31/08 14:15/eli-c
Radium 226	0.6	pCi/L	U			1 E903.0	08/06/08 17:08/eli-c
Radium 226 precision (±)	0.4	pCi/L				1 E903.0	08/06/08 17:08/eli-c
Radium 226 MDC	0.6	pCi/L				1 E903.0	08/06/08 17:08/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070244-009
 Client Sample ID: DewBurd GW681

Report Date: 10/03/08
 Collection Date: 07/14/08 17:04
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	08/05/08 12:51/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	08/05/08 12:51/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	244000	pCi/L		100		1	D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	575	pCi/L				1	D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		10	E200.8	07/30/08 04:52/eli-c
Arsenic	0.024	mg/L		0.001		10	E200.8	07/31/08 15:52/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/25/08 00:20/eli-c
Beryllium	ND	mg/L		0.001		10	E200.8	07/31/08 15:52/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/25/08 00:20/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/30/08 04:52/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/25/08 00:20/eli-c
Copper	ND	mg/L		0.01		2	E200.7	07/25/08 00:20/eli-c
Iron	0.06	mg/L		0.03		2	E200.7	07/25/08 00:20/eli-c
Lead	ND	mg/L		0.001		10	E200.8	07/30/08 04:52/eli-c
Manganese	0.09	mg/L		0.01		2	E200.7	07/25/08 00:20/eli-c
Mercury	ND	mg/L		0.0002		1	E245.1	07/23/08 15:40/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	07/25/08 00:20/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/25/08 00:20/eli-c
Selenium	0.002	mg/L	D	0.002		10	E200.8	07/30/08 04:52/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/31/08 15:52/eli-c
Strontium	1.3	mg/L		0.1		2	E200.7	07/25/08 00:20/eli-c
Thallium	ND	mg/L		0.001		10	E200.8	07/30/08 04:52/eli-c
Uranium	0.0104	mg/L		0.0003		10	E200.8	07/30/08 04:52/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/25/08 00:20/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.0200	%				1	A1030 E	09/29/08 00:00/jmh
Anions	14.7	meq/L				1	A1030 E	09/29/08 00:00/jmh
Cations	14.7	meq/L				1	A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	955	mg/L				1	A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960					1	A1030 E	09/29/08 00:00/jmh

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 27 of 33
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-010
 Client Sample ID: DewBurd GW698

Report Date: 10/03/08
 Collection Date: 07/14/08 18:43
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	122	mg/L		5		1	A2320 B	07/15/08 19:12/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/15/08 19:12/mb
Bicarbonate as HCO3	149	mg/L		5		1	A2320 B	07/15/08 19:12/mb
Calcium	356	mg/L		0.5		1	E200.7	07/21/08 22:18/eli-c
Chloride	10	mg/L		1		1	E300.0	07/16/08 20:42/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	07/16/08 20:42/jmh
Magnesium	139	mg/L		0.5		1	E200.8	07/24/08 05:40/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	07/17/08 16:38/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/16/08 20:42/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/16/08 20:42/jmh
Potassium	22.2	mg/L		0.5		1	E200.7	07/21/08 22:18/eli-c
Silica	2.6	mg/L		0.5		1	E200.7	07/21/08 22:18/eli-c
Sodium	84	mg/L	D	2		2	E200.7	07/24/08 18:12/eli-c
Sulfate	1530	mg/L	D	3		50	E300.0	07/16/08 20:25/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2530	umhos/cm		5.0		1	A2510 B	07/17/08 10:34/tb
Oxidation-Reduction Potential	47	mV				1	A2580 B	07/16/08 00:00/kh
pH	7.72	s.u.		0.01		1	A4500-H B	07/16/08 16:16/tb
Sodium Adsorption Ratio (SAR)	0.95	unitless		0.10		1	Calculation	09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	07/17/08 17:32/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/24/08 05:40/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/30/08 19:56/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/11/08 16:35/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/24/08 18:12/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/31/08 16:19/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/24/08 18:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/30/08 19:56/eli-c
Iron	3.38	mg/L		0.03		2	E200.7	07/24/08 18:12/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/24/08 05:40/eli-c
Manganese	2.44	mg/L		0.01		2	E200.7	07/24/08 18:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/24/08 05:40/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.7	07/21/08 22:18/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	07/30/08 19:56/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/28/08 16:23/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/31/08 16:19/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/24/08 05:40/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070244-010
 Client Sample ID: DewBurd GW698

Report Date: 10/03/08
 Collection Date: 07/14/08 18:43
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.119	mg/L		0.0003		1	E200.8	07/24/08 05:40/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/24/08 18:12/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	07/30/08 19:56/eli-c
METALS - SUSPENDED								
Uranium	0.0055	mg/L		0.0003		1	E200.8	07/27/08 05:19/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/28/08 14:11/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1790	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Alpha precision (±)	39.6	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Alpha MDC	7.6	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Beta	599	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	11.1	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	7.7	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Lead 210	-0.4	pCi/L	U			1	E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.5	pCi/L				1	E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L				1	E909.0M	07/25/08 11:45/eli-c
Polonium 210	1.6	pCi/L		1.0		1	RMO-3008	08/07/08 14:50/eli-c
Polonium 210 precision (±)	1.3	pCi/L				1	RMO-3008	08/07/08 14:50/eli-c
Radium 226	423	pCi/L				1	E903.0	08/12/08 14:54/eli-c
Radium 226 precision (±)	6.0	pCi/L				1	E903.0	08/12/08 14:54/eli-c
Thorium 230	0.1	pCi/L		0.2		1	E907.0	08/13/08 12:43/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	08/13/08 12:43/eli-c
Gross Gamma	1500	pCi/L		20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	90	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.7	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	1.5	pCi/L		1.0		1	RMO-3008	08/08/08 14:06/eli-c
Polonium 210 precision (±)	0.77	pCi/L				1	RMO-3008	08/08/08 14:06/eli-c
Radium 226	6.3	pCi/L				1	E903.0	08/11/08 09:37/eli-c
Radium 226 precision (±)	0.8	pCi/L				1	E903.0	08/11/08 09:37/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	08/11/08 09:37/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070244-010
 Client Sample ID: DewBurd GW698

Report Date: 10/03/08
 Collection Date: 07/14/08 18:43
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.9	pCi/L		0.2		1 E907.0	08/10/08 12:37/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1 E907.0	08/10/08 12:37/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	27900	pCi/L		100		1 D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	198	pCi/L				1 D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		10 E200.8	07/30/08 04:59/eli-c
Arsenic	0.002	mg/L	D	0.001		10 E200.8	07/30/08 04:59/eli-c
Barium	ND	mg/L		0.1		2 E200.7	07/25/08 00:24/eli-c
Beryllium	ND	mg/L		0.001		10 E200.8	07/30/08 04:59/eli-c
Boron	ND	mg/L		0.1		2 E200.7	07/25/08 00:24/eli-c
Cadmium	ND	mg/L		0.005		10 E200.8	07/30/08 04:59/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	07/25/08 00:24/eli-c
Copper	ND	mg/L		0.01		2 E200.7	07/25/08 00:24/eli-c
Iron	5.66	mg/L		0.03		2 E200.7	07/25/08 00:24/eli-c
Lead	0.001	mg/L	B	0.001		10 E200.8	07/30/08 04:59/eli-c
Manganese	2.53	mg/L		0.01		2 E200.7	07/25/08 00:24/eli-c
Mercury	ND	mg/L		0.0002		1 E245.1	07/23/08 15:43/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	07/25/08 00:24/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	07/25/08 00:24/eli-c
Selenium	0.005	mg/L	D	0.002		10 E200.8	07/30/08 04:59/eli-c
Silver	ND	mg/L		0.005		10 E200.8	07/31/08 15:58/eli-c
Strontium	4.7	mg/L		0.1		2 E200.7	07/25/08 00:24/eli-c
Thallium	ND	mg/L		0.001		10 E200.8	07/30/08 04:59/eli-c
Uranium	0.116	mg/L		0.0003		10 E200.8	07/31/08 15:58/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	07/25/08 00:24/eli-c
DATA QUALITY							
A/C Balance (± 5)	-1.21	%				1 A1030 E	09/29/08 00:00/jmh
Anions	34.6	meq/L				1 A1030 E	09/29/08 00:00/jmh
Cations	33.7	meq/L				1 A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	2220	mg/L				1 A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.03					1 A1030 E	09/29/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 30 of 33
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. B - The analyte was detected in the method blank.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070244-011
Client Sample ID: DewBurd BLK01

Report Date: 10/03/08
Collection Date: 07/14/08 18:00
Date Received: 07/15/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	07/15/08 19:14/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/15/08 19:14/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	07/15/08 19:14/mb
Calcium	ND	mg/L		0.5		1	E200.7	07/21/08 22:22/eli-c
Chloride	ND	mg/L		1		1	E300.0	07/16/08 20:58/jmh
Fluoride	0.7	mg/L		0.1		1	E300.0	07/16/08 20:58/jmh
Magnesium	ND	mg/L		0.5		1	E200.8	07/24/08 05:47/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	07/17/08 16:39/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/16/08 20:58/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/16/08 20:58/jmh
Potassium	0.6	mg/L		0.5		1	E200.7	07/21/08 22:22/eli-c
Silica	ND	mg/L		0.5		1	E200.7	07/21/08 22:22/eli-c
Sodium	ND	mg/L	D	2		2	E200.7	07/24/08 18:24/eli-c
Sulfate	2	mg/L		1		1	E300.0	07/16/08 20:58/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	19.5	umhos/cm		5.0		1	A2510 B	07/17/08 10:35/tb
Oxidation-Reduction Potential	400	mV				1	A2580 B	07/16/08 00:00/kh
pH	4.47	s.u.		0.01		1	A4500-H B	07/16/08 16:17/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	46	mg/L		5		1	A2540 C	07/17/08 17:33/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/24/08 05:47/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/26/08 01:32/eli-c
Barium	ND	mg/L		0.1		1	E200.8	07/26/08 01:32/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/24/08 18:24/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/26/08 01:32/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/24/08 18:24/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/26/08 01:32/eli-c
Iron	ND	mg/L		0.03		2	E200.7	07/24/08 18:24/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/24/08 05:47/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	07/24/08 18:24/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/24/08 05:47/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	07/26/08 01:32/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/24/08 18:24/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/28/08 16:25/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/28/08 17:34/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/24/08 05:47/eli-c

Report RL - Analyte reporting limit.
Definitions: 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: R08070244-011
 Client Sample ID: DewBurd BLK01

Report Date: 10/03/08
 Collection Date: 07/14/08 18:00
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
METALS - DISSOLVED							
Uranium	ND	mg/L		0.0003	1	E200.8	07/24/08 05:47/eli-c
Vanadium	ND	mg/L		0.1	2	E200.7	07/24/08 18:24/eli-c
Zinc	ND	mg/L		0.01	2	E200.7	07/24/08 18:24/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003	1	E200.8	07/27/08 05:23/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001	1	A3114 B	07/28/08 14:13/eli-c
Selenium-VI	ND	mg/L		0.001	1	A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	0.5	pCi/L			1	E900.0	08/18/08 10:05/eli-c
Gross Alpha precision (±)	0.6	pCi/L			1	E900.0	08/18/08 10:05/eli-c
Gross Alpha MDC	1.0	pCi/L			1	E900.0	08/18/08 10:05/eli-c
Gross Beta	-3	pCi/L			1	E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	1.2	pCi/L			1	E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	2.1	pCi/L			1	E900.0	09/04/08 06:47/eli-c
Lead 210	-3	pCi/L	U		1	E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.5	pCi/L			1	E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L			1	E909.0M	07/25/08 11:45/eli-c
Polonium 210	-0.2	pCi/L	U	1.0	1	RMO-3008	08/07/08 14:50/eli-c
Polonium 210 precision (±)	0.70	pCi/L			1	RMO-3008	08/07/08 14:50/eli-c
Radium 226	-0.02	pCi/L	U		1	E903.0	08/12/08 14:54/eli-c
Radium 226 precision (±)	0.3	pCi/L			1	E903.0	08/12/08 14:54/eli-c
Thorium 230	0.0	pCi/L	U	0.2	1	E907.0	08/13/08 12:43/eli-c
Thorium 230 precision (±)	0.05	pCi/L			1	E907.0	08/13/08 12:43/eli-c
Gross Gamma	0.0	pCi/L	U	20	1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L			1	E901.1	07/17/08 13:12/eli-c
- For Ra226 the sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved on all samples due to lack of sufficient sample volume from the client. These results should be used for general information only and not for regulatory compliance or reporting purposes.							
RADIONUCLIDES - SUSPENDED							
Lead 210	-1	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	0.0	pCi/L	U	1.0	1	RMO-3008	08/08/08 14:06/eli-c
Polonium 210 precision (±)	0.29	pCi/L			1	RMO-3008	08/08/08 14:06/eli-c
Radium 226	-0.5	pCi/L	U		1	E903.0	08/11/08 09:37/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070244-011
 Client Sample ID: DewBurd BLK01

Report Date: 10/03/08
 Collection Date: 07/14/08 18:00
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	08/11/08 09:37/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	08/11/08 09:37/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	08/10/08 12:37/eli-c
Thorium 230 precision (±)	0.08	pCi/L					1	E907.0	08/10/08 12:37/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	124	pCi/L		100			1	D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	46.9	pCi/L					1	D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/30/08 05:06/eli-c
Arsenic	ND	mg/L		0.001			10	E200.8	07/30/08 05:06/eli-c
Barium	ND	mg/L		0.1			1	E200.7	07/17/08 11:35/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/30/08 05:06/eli-c
Boron	ND	mg/L		0.1			1	E200.7	07/17/08 11:35/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/30/08 05:06/eli-c
Chromium	ND	mg/L		0.05			1	E200.7	07/17/08 11:35/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/25/08 00:28/eli-c
Iron	0.03	mg/L		0.03			1	E200.7	07/17/08 11:35/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/30/08 05:06/eli-c
Manganese	ND	mg/L		0.01			1	E200.7	07/17/08 11:35/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/23/08 15:45/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.7	07/17/08 11:35/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/25/08 00:28/eli-c
Selenium	0.002	mg/L	D	0.002			10	E200.8	07/30/08 05:06/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/31/08 16:05/eli-c
Strontium	ND	mg/L		0.1			2	E200.7	07/25/08 00:28/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/30/08 05:06/eli-c
Uranium	ND	mg/L		0.0003			10	E200.8	07/30/08 05:06/eli-c
Zinc	ND	mg/L		0.01			1	E200.7	07/17/08 11:35/eli-c

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 33 of 33
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080715A-ALK-SEL-W		
Sample ID: LCS1_080715A	Laboratory Control Sample								
Alkalinity, Total as CaCO3	952	mg/L	5.0	95	90	110			Run: PH_COND1-R_080715A 07/15/08 14:16
Sample ID: MBLK1_080715A	Method Blank								
Alkalinity, Total as CaCO3	ND	mg/L	3						Run: PH_COND1-R_080715A 07/15/08 14:17
Sample ID: R08070238-005AMS	Sample Matrix Spike								
Alkalinity, Total as CaCO3	274	mg/L	5.0	102	80	120			Run: PH_COND1-R_080715A 07/15/08 18:02
Sample ID: R08070238-005AMSD	Sample Matrix Spike Duplicate								
Alkalinity, Total as CaCO3	276	mg/L	5.0	104	80	120	0.7	10	Run: PH_COND1-R_080715A 07/15/08 18:03
Sample ID: R08070244-007AMS	Sample Matrix Spike								
Alkalinity, Total as CaCO3	272	mg/L	5.0	98	80	120			Run: PH_COND1-R_080715A 07/15/08 19:01
Sample ID: R08070244-007AMSD	Sample Matrix Spike Duplicate								
Alkalinity, Total as CaCO3	274	mg/L	5.0	100	80	120	0.7	10	Run: PH_COND1-R_080715A 07/15/08 19:04
Method: A2510 B							Batch: 080717_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080717	Laboratory Control Sample								
Conductivity @ 25 C	1420	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080717B 07/17/08 10:06
Sample ID: LCS1-1_080717	Laboratory Control Sample								
Conductivity @ 25 C	156	umhos/cm	5.0	104	90	110			Run: PH_COND2-R_080717B 07/17/08 10:06
Sample ID: LCS2-1_080717	Laboratory Control Sample								
Conductivity @ 25 C	4940	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080717B 07/17/08 10:08
Sample ID: MBLK-1_080717	Method Blank								
Conductivity @ 25 C	ND	umhos/cm	5						Run: PH_COND2-R_080717B 07/17/08 10:42
Sample ID: R08070244-006ADUP	Sample Duplicate								
Conductivity @ 25 C	1270	umhos/cm	5.0				1.6	10	Run: PH_COND2-R_080717B 07/17/08 10:29

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 080717A-SLDS-TDS-W		
Sample ID: LCS1_080717A	Laboratory Control Sample								
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	103	90	110			07/17/08 17:19
Sample ID: MBLK1_080717A	Method Blank								
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						07/17/08 17:20
Sample ID: R08070244-002AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	930	mg/L	5.0	106	80	120			07/17/08 17:26
Sample ID: R08070244-002AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	950	mg/L	5.0	116	80	120	2.1	10	07/17/08 17:27
Sample ID: R08070267-001AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	470	mg/L	5.0	114	80	120			07/17/08 17:35
Sample ID: R08070267-001AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	440	mg/L	5.0	102	80	120	5.3	10	07/17/08 17:35
Method: A2580 B							Batch: 080716-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample								
Oxidation-Reduction Potential	470	mV		100	95	105			07/16/08 00:00
Sample ID: R08070220-001F	Sample Duplicate								
Oxidation-Reduction Potential	ND	mV					0	10	07/16/08 00:00
Method: A3114 B							Batch: C_SE3114-080728B		
Sample ID: MBLK	Method Blank								
Selenium-IV	ND	mg/L	6E-05						07/28/08 13:15
Sample ID: 288-106-2	Laboratory Control Sample								
Selenium-IV	0.054	mg/L	0.0010	108	90	110			07/28/08 13:17
Sample ID: R08070244-004E	Sample Matrix Spike								
Selenium-IV	0.050	mg/L	0.0010	99	85	115			07/28/08 13:51
Sample ID: R08070244-004E	Sample Matrix Spike Duplicate								
Selenium-IV	0.051	mg/L	0.0010	101	85	115	2.1	10	07/28/08 13:53

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080728C		
Sample ID: MBLK	Method Blank					Run: SUB-C104959			07/28/08 15:28
Selenium	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample					Run: SUB-C104959			07/28/08 15:30
Selenium	0.055	mg/L	0.0010	109	90	110			
Sample ID: R08070244-004E	Sample Matrix Spike					Run: SUB-C104959			07/28/08 16:04
Selenium	0.048	mg/L	0.0010	95	85	115			
Sample ID: R08070244-004E	Sample Matrix Spike Duplicate					Run: SUB-C104959			07/28/08 16:06
Selenium	0.048	mg/L	0.0010	97	85	115	1.8	10	
Method: A4500-H B							Batch: 080716_1_PH-W		
Sample ID: LCS_pH-1_080716	Laboratory Control Sample					Run: PH_COND2-R_080716A			07/16/08 15:41
pH	6.81	s.u.	0.010	99	98.55	101.45			
Sample ID: R08070244-001ADUP	Sample Duplicate					Run: PH_COND2-R_080716A			07/16/08 16:05
pH	7.68	s.u.	0.010				0	1.25	
Sample ID: R08070244-011ADUP	Sample Duplicate					Run: PH_COND2-R_080716A			07/16/08 16:18
pH	4.44	s.u.	0.010				0.7	1.25	

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-07-17_2_NH3_02		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						Run: TECHAA2-R_080717B 07/17/08 11:42
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	94	90	110			Run: TECHAA2-R_080717B 07/17/08 11:54
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	103	90	110			Run: TECHAA2-R_080717B 07/17/08 11:55
Sample ID: R08070238-006CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.24	mg/L	0.10	96	80	120			Run: TECHAA2-R_080717B 07/17/08 16:18
Sample ID: R08070238-006CMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.23	mg/L	0.10	93	80	120	3.8	10	Run: TECHAA2-R_080717B 07/17/08 16:19
Sample ID: R08070244-006BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.46	mg/L	0.10	115	80	120			Run: TECHAA2-R_080717B 07/17/08 16:32
Sample ID: R08070244-006BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.45	mg/L	0.10	114	80	120	0.4	10	Run: TECHAA2-R_080717B 07/17/08 16:33
Sample ID: R08070256-003BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.22	mg/L	0.10	88	80	120			Run: TECHAA2-R_080717B 07/17/08 16:46
Sample ID: R08070256-003BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.20	mg/L	0.10	80	80	120	9.5	10	Run: TECHAA2-R_080717B 07/17/08 16:47
Method: D5072-92							Batch: C_R104556		
Sample ID: MB-R104556 Radon 222	Method Blank -30	pCi/L							Run: SUB-C104556 07/16/08 18:45
Sample ID: LCS-R104556 Radon 222	Laboratory Control Sample 302	pCi/L	100	109	70	130			Run: SUB-C104556 07/16/08 18:45
Sample ID: C08070756-008CDUP Radon 222	Sample Duplicate 197	pCi/L	100				20	30	Run: SUB-C104556 07/16/08 18:45

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19156		
Sample ID: MB-19156	Method Blank		Run: SUB-C104440			07/17/08 11:21			
Barium	ND	mg/L	0.004						
Boron	0.05	mg/L	0.006						
Chromium	ND	mg/L	0.003						
Copper	ND	mg/L	0.005						
Iron	0.02	mg/L	0.005						
Manganese	0.002	mg/L	0.0008						
Molybdenum	0.02	mg/L	0.01						
Nickel	ND	mg/L	0.02						
Zinc	0.007	mg/L	0.006						
Sample ID: LCS3-19156	Laboratory Control Sample		Run: SUB-C104440			07/17/08 11:24			
Barium	0.496	mg/L	0.10	99	85	115			
Boron	0.557	mg/L	0.10	101	85	115			
Chromium	0.485	mg/L	0.050	97	85	115			
Copper	0.460	mg/L	0.010	92	85	115			
Iron	2.43	mg/L	0.030	96	85	115			
Manganese	2.39	mg/L	0.010	95	85	115			
Molybdenum	0.519	mg/L	0.10	99	85	115			
Nickel	0.510	mg/L	0.050	102	85	115			
Zinc	0.484	mg/L	0.010	95	85	115			
Sample ID: R08070244-011D	Sample Matrix Spike		Run: SUB-C104440			07/17/08 11:38			
Barium	0.493	mg/L	0.10	99	70	130			
Boron	0.532	mg/L	0.10	101	70	130			
Chromium	0.486	mg/L	0.050	97	70	130			
Copper	0.461	mg/L	0.010	92	70	130			
Iron	2.43	mg/L	0.030	96	70	130			
Manganese	2.37	mg/L	0.010	95	70	130			
Molybdenum	0.512	mg/L	0.10	102	70	130			
Nickel	0.426	mg/L	0.050	85	70	130			
Zinc	0.489	mg/L	0.010	98	70	130			
Sample ID: R08070244-011D	Sample Matrix Spike Duplicate		Run: SUB-C104440			07/17/08 11:41			
Barium	0.486	mg/L	0.10	97	70	130	1.3	20	
Boron	0.524	mg/L	0.10	99	70	130	1.5	20	
Chromium	0.480	mg/L	0.050	96	70	130	1.2	20	
Copper	0.447	mg/L	0.010	89	70	130	3	20	
Iron	2.42	mg/L	0.030	96	70	130	0.3	20	
Manganese	2.35	mg/L	0.010	94	70	130	0.9	20	
Molybdenum	0.508	mg/L	0.10	102	70	130	0.8	20	
Nickel	0.494	mg/L	0.050	99	70	130	15	20	
Zinc	0.484	mg/L	0.010	97	70	130	1.2	20	

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19156		
Sample ID: MB-19156	Method Blank		Run: SUB-C104799				07/24/08 20:09		
Barium	ND	mg/L	0.006						
Boron	0.04	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						
Strontium	ND	mg/L	0.0004						
Zinc	ND	mg/L	0.001						
Sample ID: LCS3-19156	Laboratory Control Sample		Run: SUB-C104799				07/24/08 20:13		
Barium	0.504	mg/L	0.10	101	85	115			
Boron	0.545	mg/L	0.10	101	85	115			
Chromium	0.510	mg/L	0.050	102	85	115			
Copper	0.512	mg/L	0.010	102	85	115			
Iron	2.63	mg/L	0.030	105	85	115			
Manganese	2.53	mg/L	0.010	101	85	115			
Molybdenum	0.508	mg/L	0.10	102	85	115			
Nickel	0.507	mg/L	0.050	101	85	115			
Strontium	0.507	mg/L	0.10	101	85	115			
Zinc	0.505	mg/L	0.010	101	85	115			
Sample ID: R08070244-011D	Sample Matrix Spike		Run: SUB-C104799				07/25/08 00:33		
Barium	0.529	mg/L	0.10	106	70	130			
Boron	0.545	mg/L	0.10	109	70	130			
Chromium	0.523	mg/L	0.050	105	70	130			
Copper	0.530	mg/L	0.010	106	70	130			
Iron	2.73	mg/L	0.030	108	70	130			
Manganese	2.66	mg/L	0.010	106	70	130			
Molybdenum	0.519	mg/L	0.10	104	70	130			
Nickel	0.521	mg/L	0.050	104	70	130			
Strontium	0.537	mg/L	0.10	107	70	130			
Zinc	0.529	mg/L	0.010	106	70	130			
Sample ID: R08070244-011D	Sample Matrix Spike Duplicate		Run: SUB-C104799				07/25/08 00:37		
Barium	0.528	mg/L	0.10	106	70	130	0.3	20	
Boron	0.549	mg/L	0.10	110	70	130	0.8	20	
Chromium	0.529	mg/L	0.050	106	70	130	1.3	20	
Copper	0.530	mg/L	0.010	106	70	130	0.1	20	
Iron	2.74	mg/L	0.030	109	70	130	0.4	20	
Manganese	2.68	mg/L	0.010	107	70	130	0.6	20	
Molybdenum	0.525	mg/L	0.10	105	70	130	1.1	20	
Nickel	0.526	mg/L	0.050	105	70	130	0.9	20	

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Project: Edgemont

Report Date: 10/03/08

Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_19156
Sample ID: R08070244-011D	Sample Matrix Spike Duplicate					Run: SUB-C104799			07/25/08 00:37
Strontium	0.531	mg/L	0.10	106	70	130	1	20	
Zinc	0.530	mg/L	0.010	106	70	130	0.1	20	

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R104799		
Sample ID: MB-080724A	Method Blank			Run: SUB-C104799			07/24/08 13:13		
Chromium	ND	mg/L	0.002						
Iron	ND	mg/L	0.005						
Manganese	ND	mg/L	0.0003						
Nickel	ND	mg/L	0.004						
Sodium	ND	mg/L	0.8						
Vanadium	ND	mg/L	0.003						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080724A	Laboratory Fortified Blank			Run: SUB-C104799			07/24/08 13:17		
Chromium	1.0	mg/L	0.050	105	85	125			
Iron	1.1	mg/L	0.030	109	85	125			
Manganese	1.1	mg/L	0.010	105	85	125			
Nickel	1.0	mg/L	0.050	104	85	125			
Sodium	50	mg/L	0.77	99	85	125			
Vanadium	1.1	mg/L	0.10	106	85	125			
Zinc	1.0	mg/L	0.010	103	85	125			
Sample ID: C08070339-001JMS2	Sample Matrix Spike			Run: SUB-C104799			07/24/08 17:19		
Boron	2.25	mg/L	0.10	103	70	130			
Chromium	2.05	mg/L	0.050	102	70	130			
Copper	2.05	mg/L	0.010	102	70	130			
Iron	2.13	mg/L	0.030	106	70	130			
Manganese	2.26	mg/L	0.010	103	70	130			
Nickel	2.02	mg/L	0.050	101	70	130			
Vanadium	2.17	mg/L	0.10	108	70	130			
Zinc	2.10	mg/L	0.010	105	70	130			
Sodium	144	mg/L	1.5	99	70	130			
Sample ID: C08070339-001JMSD2	Sample Matrix Spike Duplicate			Run: SUB-C104799			07/24/08 17:23		
Boron	2.23	mg/L	0.10	102	70	130	0.9	20	
Chromium	2.02	mg/L	0.050	101	70	130	1.5	20	
Copper	2.01	mg/L	0.010	101	70	130	1.6	20	
Iron	2.10	mg/L	0.030	105	70	130	1.3	20	
Manganese	2.23	mg/L	0.010	101	70	130	1.7	20	
Nickel	1.98	mg/L	0.050	99	70	130	1.7	20	
Vanadium	2.07	mg/L	0.10	103	70	130	4.5	20	
Zinc	2.04	mg/L	0.010	102	70	130	2.9	20	
Sodium	141	mg/L	1.5	97	70	130	1.6	20	
Sample ID: R08070244-010C	Sample Matrix Spike			Run: SUB-C104799			07/24/08 18:16		
Chromium	2.00	mg/L	0.050	100	70	130			
Iron	5.41	mg/L	0.030	102	70	130			
Manganese	4.37	mg/L	0.010	96	70	130			
Nickel	1.95	mg/L	0.050	98	70	130			

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R104799		
Sample ID: R08070244-010C	Sample Matrix Spike				Run: SUB-C104799				07/24/08 18:16
Vanadium	2.07	mg/L	0.10	103	70	130			
Zinc	2.04	mg/L	0.010	102	70	130			
Sodium	185	mg/L	1.5	101	70	130			
Sample ID: R08070244-010C	Sample Matrix Spike Duplicate				Run: SUB-C104799				07/24/08 18:20
Chromium	1.98	mg/L	0.050	99	70	130	1.1	20	
Iron	5.42	mg/L	0.030	102	70	130	0.2	20	
Manganese	4.38	mg/L	0.010	97	70	130	0.3	20	
Nickel	1.93	mg/L	0.050	97	70	130	1.2	20	
Vanadium	2.03	mg/L	0.10	101	70	130	1.8	20	
Zinc	2.00	mg/L	0.010	100	70	130	1.9	20	
Sodium	183	mg/L	1.5	100	70	130	0.8	20	
Method: E200.7							Batch: C_R104966		
Sample ID: MB-080728A	Method Blank				Run: SUB-C104966				07/28/08 16:33
Iron	ND	mg/L	0.005						
Sample ID: LFB-080728A	Laboratory Fortified Blank				Run: SUB-C104966				07/28/08 16:37
Iron	1.0	mg/L	0.030	102	85	125			
Sample ID: R08070244-003C	Sample Matrix Spike				Run: SUB-C104966				07/28/08 16:45
Iron	2.16	mg/L	0.030	108	70	130			
Sample ID: R08070244-003C	Sample Matrix Spike Duplicate				Run: SUB-C104966				07/28/08 16:49
Iron	2.13	mg/L	0.030	106	70	130	1.6	20	

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R107424		
Sample ID: MB-080911A	Method Blank				Run: SUB-C107424				09/11/08 13:08
Barium	ND	mg/L	0.006						
Boron	0.02	mg/L	0.008						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.005						
Sample ID: LFB-080911A	Laboratory Fortified Blank				Run: SUB-C107424				09/11/08 13:12
Barium	0.97	mg/L	0.10	97	85	125			
Boron	0.99	mg/L	0.10	96	85	125			
Copper	0.97	mg/L	0.010	97	85	125			
Iron	1.0	mg/L	0.030	104	85	125			
Sample ID: R08070244-002C	Sample Matrix Spike				Run: SUB-C107424				09/11/08 15:47
Barium	1.98	mg/L	0.10	99	70	130			
Boron	2.08	mg/L	0.10	100	70	130			
Copper	2.04	mg/L	0.010	102	70	130			
Iron	2.64	mg/L	0.030	104	70	130			
Sample ID: R08070244-002C	Sample Matrix Spike Duplicate				Run: SUB-C107424				09/11/08 15:51
Barium	2.01	mg/L	0.10	100	70	130	1.2	20	
Boron	2.15	mg/L	0.10	104	70	130	3.4	20	
Copper	2.07	mg/L	0.010	104	70	130	1.5	20	
Iron	2.61	mg/L	0.030	102	70	130	1.1	20	
Sample ID: C08081207-001CMS2	Sample Matrix Spike				Run: SUB-C107424				09/11/08 16:56
Barium	4.92	mg/L	0.10	98	70	130			
Boron	6.10	mg/L	0.10	99	70	130			
Copper	4.99	mg/L	0.026	100	70	130			
Iron	5.37	mg/L	0.030	101	70	130			
Sample ID: C08081207-001CMSD2	Sample Matrix Spike Duplicate				Run: SUB-C107424				09/11/08 17:00
Barium	4.93	mg/L	0.10	99	70	130	0.3	20	
Boron	6.24	mg/L	0.10	102	70	130	2.2	20	
Copper	5.09	mg/L	0.026	102	70	130	2	20	
Iron	5.52	mg/L	0.030	104	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: 10/03/08
Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19156		
Sample ID: MB-19156	Method Blank		Run: SUB-C105057				07/30/08 01:16		
Antimony	ND	mg/L	0.0002						
Arsenic	0.002	mg/L	5E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Lead	0.005	mg/L	5E-05						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	4E-05						
Thallium	8E-05	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-19156	Laboratory Control Sample		Run: SUB-C105057				07/30/08 01:22		
Antimony	0.542	mg/L	0.050	108	85	115			
Arsenic	0.518	mg/L	0.0010	103	85	115			
Beryllium	0.247	mg/L	0.010	99	85	115			
Cadmium	0.251	mg/L	0.010	101	85	115			
Lead	0.511	mg/L	0.050	101	85	115			
Selenium	0.496	mg/L	0.0020	99	85	115			
Silver	0.0474	mg/L	0.010	95	85	115			
Thallium	0.508	mg/L	0.10	101	85	115			
Uranium	0.527	mg/L	0.00032	105	85	115			
Sample ID: R08070244-011D	Sample Matrix Spike		Run: SUB-C105057				07/30/08 05:40		
Antimony	0.542	mg/L	0.050	108	70	130			
Arsenic	0.507	mg/L	0.0010	101	70	130			
Beryllium	0.247	mg/L	0.010	99	70	130			
Cadmium	0.249	mg/L	0.010	100	70	130			
Lead	0.501	mg/L	0.050	100	70	130			
Selenium	0.499	mg/L	0.0020	99	70	130			
Silver	0.0462	mg/L	0.010	92	70	130			
Thallium	0.494	mg/L	0.10	99	70	130			
Uranium	0.528	mg/L	0.00032	106	70	130			
Sample ID: R08070244-011D	Sample Matrix Spike Duplicate		Run: SUB-C105057				07/30/08 05:46		
Antimony	0.544	mg/L	0.050	109	70	130	0.4	20	
Arsenic	0.504	mg/L	0.0010	101	70	130	0.5	20	
Beryllium	0.242	mg/L	0.010	97	70	130	2.1	20	
Cadmium	0.248	mg/L	0.010	99	70	130	0.5	20	
Lead	0.499	mg/L	0.050	100	70	130	0.4	20	
Selenium	0.492	mg/L	0.0020	98	70	130	1.4	20	
Silver	0.0460	mg/L	0.010	92	70	130	0.4	20	
Thallium	0.497	mg/L	0.10	99	70	130	0.6	20	
Uranium	0.520	mg/L	0.00032	104	70	130	1.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 10/03/08

Project: Edgemont

Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_19224
Sample ID: MB-19224	Method Blank								Run: SUB-C104868 07/27/08 03:08
Uranium	2E-05	mg/L							
Sample ID: LCS1-19224	Laboratory Control Sample								Run: SUB-C104868 07/27/08 03:12
Uranium	0.0471	mg/L	0.00030	90	80	120			
Sample ID: R08070244-009I	Post Digestion Spike								Run: SUB-C104868 07/27/08 04:50
Uranium	0.0115	mg/L	0.00030	92	70	130			
Sample ID: R08070244-009I	Post Digestion Spike Duplicate								Run: SUB-C104868 07/27/08 04:54
Uranium	0.0115	mg/L	0.00030	91	70	130	0.6	20	
Method: E200.8									Batch: C_19232
Sample ID: MB-19232	Method Blank								Run: SUB-C104868 07/27/08 04:58
Uranium	6E-05	mg/L							
Sample ID: LCS1-19232	Laboratory Control Sample								Run: SUB-C104868 07/27/08 05:15
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
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
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.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

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						
Chromium	ND	mg/L	4E-05						
Copper	ND	mg/L	3E-05						
Lead	ND	mg/L	3E-06						
Magnesium	ND	mg/L	0.003						
Manganese	ND	mg/L	6E-06						
Mercury	ND	mg/L	1E-05						
Molybdenum	ND	mg/L	9E-06						
Nickel	ND	mg/L	3E-05						
Uranium	4E-06	mg/L	2E-06						
Vanadium	ND	mg/L	3E-05						
Zinc	0.0001	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			
Chromium	0.0503	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			
Magnesium	1.37	mg/L	0.0030	109	85	115			
Manganese	0.0495	mg/L	0.0010	99	85	115			
Mercury	0.00498	mg/L	0.0010	100	85	115			
Molybdenum	0.0497	mg/L	0.0010	99	85	115			
Nickel	0.0499	mg/L	0.0010	100	85	115			
Uranium	0.0488	mg/L	0.00030	98	85	115			
Vanadium	0.0492	mg/L	0.0010	98	85	115			
Zinc	0.0533	mg/L	0.0010	106	85	115			
Sample ID: R08070115-005C	Post Digestion Spike		Run: SUB-C104758				07/24/08 08:23		
Aluminum	0.0537	mg/L	0.10	105	70	130			
Arsenic	0.0485	mg/L	0.0010	97	70	130			
Chromium	0.0460	mg/L	0.050	92	70	130			
Copper	0.0480	mg/L	0.010	95	70	130			
Lead	0.0490	mg/L	0.050	98	70	130			
Manganese	0.0553	mg/L	0.010	95	70	130			
Mercury	0.00565	mg/L	0.0010	113	70	130			
Molybdenum	0.0565	mg/L	0.10	96	70	130			
Nickel	0.0473	mg/L	0.050	95	70	130			
Thorium 232	0.0490	mg/L	0.0010	98	70	130			
Uranium	0.0489	mg/L	0.00030	98	70	130			
Vanadium	0.0475	mg/L	0.10	95	70	130			
Zinc	0.0476	mg/L	0.010	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: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104758		
Sample ID: R08070115-005C	Post Digestion Spike				Run: SUB-C104758		07/24/08 08:23		
Magnesium	27.6	mg/L	1.0		70	130			A
Sample ID: R08070115-005C	Post Digestion Spike Duplicate				Run: SUB-C104758		07/24/08 08:30		
Aluminum	0.0549	mg/L	0.10	107	70	130	0	20	
Arsenic	0.0484	mg/L	0.0010	97	70	130	0.3	20	
Chromium	0.0463	mg/L	0.050	93	70	130	0	20	
Copper	0.0484	mg/L	0.010	96	70	130	0.9	20	
Lead	0.0491	mg/L	0.050	98	70	130	0	20	
Manganese	0.0556	mg/L	0.010	95	70	130	0.6	20	
Mercury	0.00533	mg/L	0.0010	106	70	130	5.9	20	
Molybdenum	0.0569	mg/L	0.10	96	70	130	0	20	
Nickel	0.0479	mg/L	0.050	96	70	130	0	20	
Thorium 232	0.0494	mg/L	0.0010	99	70	130	1	20	
Uranium	0.0493	mg/L	0.00030	98	70	130	0.8	20	
Vanadium	0.0481	mg/L	0.10	96	70	130	0	20	
Zinc	0.0493	mg/L	0.010	96	70	130	3.5	20	
Magnesium	27.4	mg/L	1.0		70	130	0.8	20	A
Sample ID: LRB	Method Blank				Run: SUB-C104758		07/23/08 12:27		
Thorium 232	3E-05	mg/L							
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C104758		07/23/08 12:34		
Thorium 232	0.0485	mg/L	0.0010	97	85	115			
Sample ID: R08070244-007C	Post Digestion Spike				Run: SUB-C104758		07/24/08 05:13		
Aluminum	0.0485	mg/L	0.10	97	70	130			
Arsenic	0.0501	mg/L	0.0010	98	70	130			
Chromium	0.0465	mg/L	0.050	93	70	130			
Copper	0.0489	mg/L	0.010	98	70	130			
Lead	0.0492	mg/L	0.050	98	70	130			
Manganese	0.101	mg/L	0.010	96	70	130			
Mercury	0.00479	mg/L	0.0010	98	70	130			
Molybdenum	0.0506	mg/L	0.10	97	70	130			
Nickel	0.0483	mg/L	0.050	97	70	130			
Thorium 232	0.0494	mg/L	0.0010	98	70	130			
Uranium	0.0497	mg/L	0.00030	99	70	130			
Vanadium	0.0487	mg/L	0.10	97	70	130			
Zinc	0.0502	mg/L	0.010	100	70	130			
Magnesium	17.9	mg/L	1.0		70	130			A
Sample ID: R08070244-007C	Post Digestion Spike Duplicate				Run: SUB-C104758		07/24/08 05:20		
Aluminum	0.0507	mg/L	0.10	101	70	130	0	20	
Arsenic	0.0515	mg/L	0.0010	101	70	130	2.7	20	
Chromium	0.0477	mg/L	0.050	95	70	130	0	20	

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104758		
Sample ID: R08070244-007C	Post Digestion Spike Duplicate			Run: SUB-C104758			07/24/08 05:20		
Copper	0.0501	mg/L	0.010	100	70	130	2.4	20	
Lead	0.0505	mg/L	0.050	101	70	130	2.6	20	
Manganese	0.102	mg/L	0.010	99	70	130	1.6	20	
Mercury	0.00495	mg/L	0.0010	101	70	130	3.2	20	
Molybdenum	0.0535	mg/L	0.10	102	70	130	0	20	
Nickel	0.0495	mg/L	0.050	99	70	130	0	20	
Thorium 232	0.0510	mg/L	0.0010	102	70	130	3.2	20	
Uranium	0.0510	mg/L	0.00030	102	70	130	2.6	20	
Vanadium	0.0499	mg/L	0.10	100	70	130	0	20	
Zinc	0.0487	mg/L	0.010	97	70	130	3.2	20	
Magnesium	19.2	mg/L	1.0		70	130	7.1	20	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

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



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104869		
Sample ID: LRB	Method Blank		Run: SUB-C104869				07/25/08 17:21		
Arsenic	ND	mg/L	4E-05						
Cadmium	ND	mg/L	3E-06						
Chromium	ND	mg/L	4E-05						
Lead	ND	mg/L	3E-06						
Mercury	8E-05	mg/L	1E-05						
Nickel	ND	mg/L	3E-05						
Silver	0.0006	mg/L	7E-06						
Vanadium	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C104869				07/25/08 17:28		
Arsenic	0.0515	mg/L	0.0010	103	85	115			
Cadmium	0.0510	mg/L	0.0010	102	85	115			
Chromium	0.0515	mg/L	0.0010	103	85	115			
Lead	0.0514	mg/L	0.0010	103	85	115			
Mercury	0.00522	mg/L	0.0010	103	85	115			
Nickel	0.0514	mg/L	0.0010	103	85	115			
Silver	0.0185	mg/L	0.0010	89	85	115			
Vanadium	0.0513	mg/L	0.0010	102	85	115			
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C104869				07/25/08 17:28		
Thorium 232	0.0473	mg/L	0.0010	95	85	115			
Sample ID: R08070220-001C	Post Digestion Spike		Run: SUB-C104869				07/26/08 07:58		
Arsenic	0.0671	mg/L	0.0010	101	70	130			
Barium	0.0654	mg/L	0.10	102	70	130			
Cadmium	0.0474	mg/L	0.010	95	70	130			
Chromium	0.0489	mg/L	0.050	98	70	130			
Copper	0.0513	mg/L	0.010	92	70	130			
Iron	22.4	mg/L	0.030		70	130			A
Lead	0.0502	mg/L	0.050	100	70	130			
Manganese	1.51	mg/L	0.010		70	130			A
Mercury	0.00539	mg/L	0.0010	108	70	130			
Molybdenum	0.0692	mg/L	0.10	99	70	130			
Nickel	0.0601	mg/L	0.050	96	70	130			
Silver	0.0153	mg/L	0.010	77	70	130			
Thorium 232	0.0532	mg/L	0.0010	106	70	130			
Vanadium	0.0503	mg/L	0.10	101	70	130			
Zinc	0.0555	mg/L	0.010	90	70	130			
Sample ID: R08070220-001C	Post Digestion Spike Duplicate		Run: SUB-C104869				07/26/08 08:05		
Arsenic	0.0627	mg/L	0.0010	92	70	130	6.9	20	
Barium	0.0658	mg/L	0.10	102	70	130	0	20	
Cadmium	0.0476	mg/L	0.010	95	70	130	0.4	20	
Chromium	0.0452	mg/L	0.050	90	70	130	0	20	

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104869		
Sample ID: R08070220-001C	Post Digestion Spike Duplicate			Run: SUB-C104869			07/26/08 08:05		
Copper	0.0478	mg/L	0.010	85	70	130	7	20	
Iron	21.9	mg/L	0.030		70	130	2.5	20	A
Lead	0.0505	mg/L	0.050	101	70	130	0.6	20	
Manganese	1.52	mg/L	0.010		70	130	0.8	20	A
Mercury	0.00553	mg/L	0.0010	111	70	130	2.6	20	
Molybdenum	0.0686	mg/L	0.10	98	70	130	0	20	
Nickel	0.0586	mg/L	0.050	93	70	130	2.5	20	
Silver	0.0148	mg/L	0.010	74	70	130	3.3	20	
Thorium 232	0.0534	mg/L	0.0010	107	70	130	0.5	20	
Vanadium	0.0468	mg/L	0.10	94	70	130	0	20	
Zinc	0.0501	mg/L	0.010	79	70	130	10	20	
Sample ID: R08070244-010C	Post Digestion Spike			Run: SUB-C104869			07/26/08 01:19		
Arsenic	0.0516	mg/L	0.0010	102	70	130			
Cadmium	0.0488	mg/L	0.010	98	70	130			
Chromium	0.0496	mg/L	0.050	99	70	130			
Lead	0.0509	mg/L	0.050	102	70	130			
Mercury	0.00507	mg/L	0.0010	101	70	130			
Nickel	0.0547	mg/L	0.050	97	70	130			
Silver	0.0184	mg/L	0.010	92	70	130			
Thorium 232	0.0538	mg/L	0.0010	107	70	130			
Vanadium	0.0513	mg/L	0.10	103	70	130			
Sample ID: R08070244-010C	Post Digestion Spike Duplicate			Run: SUB-C104869			07/26/08 01:26		
Arsenic	0.0513	mg/L	0.0010	102	70	130	0.5	20	
Cadmium	0.0491	mg/L	0.010	98	70	130	0.7	20	
Chromium	0.0495	mg/L	0.050	99	70	130	0	20	
Lead	0.0510	mg/L	0.050	102	70	130	0.2	20	
Mercury	0.00520	mg/L	0.0010	104	70	130	2.4	20	
Nickel	0.0543	mg/L	0.050	96	70	130	0.8	20	
Silver	0.0191	mg/L	0.010	95	70	130	3.3	20	
Thorium 232	0.0497	mg/L	0.0010	99	70	130	8	20	
Vanadium	0.0513	mg/L	0.10	102	70	130	0	20	

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104980		
Sample ID: LRB	Method Blank		Run: SUB-C104980				07/28/08 12:17		
Chromium	ND	mg/L	4E-05						
Manganese	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	ND	mg/L	3E-05						
Uranium	3E-05	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C104980				07/28/08 12:24		
Chromium	0.0529	mg/L	0.0010	106	85	115			
Manganese	0.0525	mg/L	0.0010	105	85	115			
Nickel	0.0517	mg/L	0.0010	103	85	115			
Silver	0.0200	mg/L	0.0010	100	85	115			
Uranium	0.0520	mg/L	0.00030	104	85	115			
Vanadium	0.0522	mg/L	0.0010	104	85	115			
Sample ID: R08070244-011C	Post Digestion Spike		Run: SUB-C104980				07/28/08 17:41		
Chromium	0.0519	mg/L	0.050	103	70	130			
Manganese	0.0535	mg/L	0.010	104	70	130			
Nickel	0.0495	mg/L	0.050	99	70	130			
Silver	0.0140	mg/L	0.010	70	70	130			
Uranium	0.0506	mg/L	0.00030	101	70	130			
Vanadium	0.0513	mg/L	0.10	102	70	130			
Sample ID: R08070244-011C	Post Digestion Spike Duplicate		Run: SUB-C104980				07/28/08 18:15		
Chromium	0.0506	mg/L	0.050	100	70	130	2.6	20	
Manganese	0.0524	mg/L	0.010	102	70	130	2.2	20	
Nickel	0.0490	mg/L	0.050	98	70	130	0	20	
Silver	0.0156	mg/L	0.010	78	70	130	10	20	
Uranium	0.0502	mg/L	0.00030	100	70	130	0.8	20	
Vanadium	0.0502	mg/L	0.10	100	70	130	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: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R105126		
Sample ID: LRB	Method Blank		Run: SUB-C105126			07/30/08 16:46			
Arsenic	8E-05	mg/L	6E-05						
Nickel	ND	mg/L	0.0007						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C105126			07/30/08 16:53			
Arsenic	0.0513	mg/L	0.0010	102	85	115			
Nickel	0.0512	mg/L	0.0010	102	85	115			
Uranium	0.0518	mg/L	0.00030	104	85	115			
Sample ID: C08070851-010BMS4	Post Digestion Spike		Run: SUB-C105126			07/30/08 18:41			
Arsenic	0.0513	mg/L	0.0010	102	70	130			
Nickel	0.0513	mg/L	0.050	103	70	130			
Uranium	0.0502	mg/L	0.00030	100	70	130			
Sample ID: C08070851-010BMSD4	Post Digestion Spike Duplicate		Run: SUB-C105126			07/30/08 18:48			
Arsenic	0.0510	mg/L	0.0010	102	70	130	0.6	20	
Nickel	0.0500	mg/L	0.050	100	70	130	2.6	20	
Uranium	0.0510	mg/L	0.00030	102	70	130	1.6	20	
Sample ID: C08070821-004BMS4	Post Digestion Spike		Run: SUB-C105126			07/30/08 20:29			
Arsenic	0.0692	mg/L	0.0010	103	70	130			
Nickel	0.0484	mg/L	0.050	94	70	130			
Uranium	10.8	mg/L	0.00030		70	130			A
Sample ID: C08070821-004BMSD4	Post Digestion Spike Duplicate		Run: SUB-C105126			07/30/08 20:36			
Arsenic	0.0684	mg/L	0.0010	101	70	130	1.1	20	
Nickel	0.0480	mg/L	0.050	93	70	130	0	20	
Uranium	11.4	mg/L	0.00030		70	130	5.8	20	A

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R105162		
Sample ID: LRB	Method Blank				Run: SUB-C105162		07/31/08 12:55		
Cadmium	ND	mg/L	3E-06						
Silver	0.0004	mg/L	7E-06						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C105162		07/31/08 13:02		
Cadmium	0.0499	mg/L	0.0010	100	85	115			
Silver	0.0196	mg/L	0.0010	96	85	115			
Sample ID: C08070680-001CMS4	Post Digestion Spike				Run: SUB-C105162		07/31/08 18:14		
Cadmium	0.0473	mg/L	0.010	95	70	130			
Silver	0.0137	mg/L	0.010	69	70	130			S
Sample ID: C08070707-001BMS4	Post Digestion Spike				Run: SUB-C105162		07/31/08 19:07		
Cadmium	0.505	mg/L	0.010	101	70	130			
Silver	0.119	mg/L	0.010	60	70	130			S
Sample ID: C08070707-001BMSD4	Post Digestion Spike Duplicate				Run: SUB-C105162		07/31/08 19:14		
Cadmium	0.492	mg/L	0.010	98	70	130	2.6	20	
Silver	0.122	mg/L	0.010	61	70	130	1.9	20	S
Sample ID: C08070680-001CMSD4	Post Digestion Spike Duplicate				Run: SUB-C105162		07/31/08 18:47		
Cadmium	0.0474	mg/L	0.010	95	70	130	0.2	20	
Silver	0.0119	mg/L	0.010	59	70	130	14	20	S
Method: E245.1							Batch: B_33680		
Sample ID: MB-33680	Method Blank				Run: SUB-B114551		07/23/08 14:30		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33680	Laboratory Fortified Blank				Run: SUB-B114551		07/23/08 14:33		
Mercury	0.0022	mg/L	0.0010	109	85	115			
Sample ID: R08070238-006F	Sample Matrix Spike				Run: SUB-B114551		07/23/08 15:08		
Mercury	0.0022	mg/L	0.0010	108	70	130			
Sample ID: R08070238-006F	Sample Matrix Spike Duplicate				Run: SUB-B114551		07/23/08 15:10		
Mercury	0.0021	mg/L	0.0010	105	70	130	2.8	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: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R36127		
Sample ID: LFB0807153729-3	Laboratory Fortified Blank			Run: DIONEX_080716A			07/16/08 08:56		
Chloride	4.80	mg/L	0.50	96	90	110			
Fluoride	1.81	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.37	mg/L	0.10	95	90	110			
Nitrogen, Nitrite as N	2.51	mg/L	0.10	100	90	110			
Sulfate	14.3	mg/L	1.0	96	90	110			
Sample ID: LFB0807153729-4	Laboratory Fortified Blank			Run: DIONEX_080716A			07/16/08 09:12		
Chloride	4.93	mg/L	0.50	99	90	110			
Fluoride	1.87	mg/L	0.10	94	90	110			
Nitrogen, Nitrate as N	2.44	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N	2.58	mg/L	0.10	103	90	110			
Sulfate	14.7	mg/L	1.0	98	90	110			
Sample ID: LFB0807153729-5	Laboratory Fortified Blank			Run: DIONEX_080716A			07/16/08 09:29		
Chloride	4.94	mg/L	0.50	99	90	110			
Fluoride	1.87	mg/L	0.10	94	90	110			
Nitrogen, Nitrate as N	2.44	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N	2.58	mg/L	0.10	103	90	110			
Sulfate	14.8	mg/L	1.0	98	90	110			
Sample ID: R08070244-001AMS	Sample Matrix Spike			Run: DIONEX_080716A			07/16/08 13:02		
Chloride	257	mg/L	5.4	94	80	120			
Fluoride	94.0	mg/L	0.56	85	80	120			
Nitrogen, Nitrate as N	122	mg/L	1.3	97	80	120			
Nitrogen, Nitrite as N	129	mg/L	2.9	103	80	120			
Sulfate	1150	mg/L	3.4	90	80	120			
Sample ID: R08070244-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080716A			07/16/08 13:18		
Chloride	250	mg/L	5.4	92	80	120	2.5	10	
Fluoride	91.4	mg/L	0.56	82	80	120	2.8	10	
Nitrogen, Nitrate as N	118	mg/L	1.3	94	80	120	3.3	10	
Nitrogen, Nitrite as N	125	mg/L	2.9	100	80	120	2.9	10	
Sulfate	1160	mg/L	3.4	91	80	120	0.6	10	
Sample ID: R08070244-005AMS	Sample Matrix Spike			Run: DIONEX_080716A			07/16/08 16:19		
Chloride	256	mg/L	5.4	94	80	120			
Fluoride	93.9	mg/L	0.56	85	80	120			
Nitrogen, Nitrate as N	121	mg/L	1.3	97	80	120			
Nitrogen, Nitrite as N	129	mg/L	2.9	103	80	120			
Sulfate	1180	mg/L	3.4	87	80	120			
Sample ID: R08070244-005AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080716A			07/16/08 16:35		
Chloride	254	mg/L	5.4	93	80	120	0.5	10	
Fluoride	93.4	mg/L	0.56	84	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: 10/03/08
Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R36127		
Sample ID: R08070244-005AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080716A			07/16/08 16:35		
Nitrogen, Nitrate as N	120	mg/L	1.3	96	80	120	1.3	10	
Nitrogen, Nitrite as N	127	mg/L	2.9	102	80	120	1.4	10	
Sulfate	1190	mg/L	3.4	88	80	120	0.7	10	
Sample ID: R08070244-009AMS	Sample Matrix Spike			Run: DIONEX_080716A			07/16/08 19:36		
Chloride	262	mg/L	5.4	94	80	120			
Fluoride	104	mg/L	0.56	95	80	120			
Nitrogen, Nitrate as N	121	mg/L	1.3	96	80	120			
Nitrogen, Nitrite as N	127	mg/L	2.9	102	80	120			
Sulfate	1170	mg/L	3.4	87	80	120			
Sample ID: R08070244-009AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080716A			07/16/08 19:52		
Chloride	254	mg/L	5.4	91	80	120	3.2	10	
Fluoride	92.0	mg/L	0.56	83	80	120	12	10	R
Nitrogen, Nitrate as N	117	mg/L	1.3	93	80	120	3.2	10	
Nitrogen, Nitrite as N	123	mg/L	2.9	99	80	120	2.9	10	
Sulfate	1130	mg/L	3.4	82	80	120	3.4	10	
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	

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: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_R106566		
Sample ID: R08070244-011H	Sample Matrix Spike				Run: SUB-C106566				08/18/08 10:05
Gross Alpha	130	pCi/L		97	70	130			
Sample ID: R08070244-011H	Sample Matrix Spike Duplicate				Run: SUB-C106566				08/18/08 10:05
Gross Alpha	120	pCi/L		90	70	130	7.6	30	
Sample ID: MB-R106566	Method Blank				Run: SUB-C106566				08/18/08 10:05
Gross Alpha	0.2	pCi/L							
Sample ID: LCS-R106566	Laboratory Control Sample				Run: SUB-C106566				08/18/08 10:05
Gross Alpha	140	pCi/L		98	70	130			
Method: E901.1							Batch: C_R104840		
Sample ID: LCS-R104840	Laboratory Control Sample				Run: SUB-C104840				07/17/08 13:12
Americium 241	230000	pCi/L	20	75	70	130			
Cesium 137	460000	pCi/L	20	106	70	130			
Cobalt 60	320000	pCi/L	20	101	70	130			
Sample ID: MB-R104840	Method Blank				Run: SUB-C104840				07/17/08 13:12
Gross Gamma	ND	pCi/L							U
Sample ID: R08070244-011H	Sample Duplicate				Run: SUB-C104840				07/17/08 13:12
Gross Gamma	ND	pCi/L	20				0	30	
Method: E903.0							Batch: C_19224		
Sample ID: C08070719-001EMS	Sample Matrix Spike				Run: SUB-C105486				08/06/08 15:36
Radium 226	140	pCi/L		87	70	130			
Sample ID: C08070719-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C105486				08/06/08 15:36
Radium 226	130	pCi/L		79	70	130	7.8	29.9	
Sample ID: MB-19224	Method Blank				Run: SUB-C105486				08/06/08 17:08
Radium 226	-2	pCi/L							U
Sample ID: LCS-19224	Laboratory Control Sample				Run: SUB-C105486				08/06/08 17:08
Radium 226	58	pCi/L		76	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: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0 Batch: C_19232									
Sample ID: R08070244-0101 Radium 226	Sample Matrix Spike 44	pCi/L		100	70	130			08/11/08 09:37
Sample ID: R08070244-0101 Radium 226	Sample Matrix Spike Duplicate 43	pCi/L		97	70	130	2.1	24.1	08/11/08 09:37
Sample ID: MB-19232 Radium 226	Method Blank -1	pCi/L							08/11/08 11:25 U
Sample ID: LCS-19232 Radium 226	Laboratory Control Sample 86	pCi/L		104	70	130			08/11/08 14:02
Method: E903.0 Batch: C_RA226-2985									
Sample ID: MB-RA226-2985 Radium 226	Method Blank -0.2	pCi/L							08/12/08 16:42 U
Sample ID: LCS-RA226-2985 Radium 226	Laboratory Control Sample 8.2	pCi/L		106	70	130			08/12/08 16:42
Method: E907.0 Batch: C_19224									
Sample ID: C08070680-001IMS Thorium 230	Sample Matrix Spike 19.8	pCi/L	0.20	88	70	130			08/04/08 22:05
Sample ID: C08070680-001IMSD Thorium 230	Sample Matrix Spike Duplicate 23.7	pCi/L	0.20	103	70	130	18	30	08/04/08 22:05
Sample ID: LCS-19224 Thorium 230	Laboratory Control Sample 44.9	pCi/L	0.20	92	70	130			08/05/08 12:51
Sample ID: MB-19224 Thorium 230	Method Blank 0.04	pCi/L							08/05/08 12:51 U
Method: E907.0 Batch: C_19232									
Sample ID: C08071003-001KMS Thorium 230	Sample Matrix Spike 22.3	pCi/L	0.20	96	70	130			08/10/08 17:23
Sample ID: C08071003-001KMSD Thorium 230	Sample Matrix Spike Duplicate 21.3	pCi/L	0.20	90	70	130	4.3	30	08/10/08 17:23
Sample ID: LCS-19232 Thorium 230	Laboratory Control Sample 45.0	pCi/L	0.20	88	70	130			08/10/08 17:23
Sample ID: MB-19232 Thorium 230	Method Blank 0.1	pCi/L							08/10/08 21:35 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: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0598		
Sample ID: LCS-RA-TH-ISO-0598	Laboratory Control Sample				Run: SUB-C106251				08/13/08 00:45
Thorium 230	6.45	pCi/L	0.20	105	70	130			
Sample ID: R08070244-001H	Sample Matrix Spike				Run: SUB-C106251				08/13/08 12:43
Thorium 230	16.1	pCi/L	0.20	99	70	130			
Sample ID: R08070244-001H	Sample Matrix Spike Duplicate				Run: SUB-C106251				08/13/08 12:43
Thorium 230	16.8	pCi/L	0.20	103	70	130	4.4	30	
Sample ID: MB-RA-TH-ISO-0598	Method Blank				Run: SUB-C106251				08/13/08 17:32
Thorium 230	0.02	pCi/L							U
Method: E909.0M							Batch: C_19224		
Sample ID: C08070547-007IMS	Sample Matrix Spike				Run: SUB-C106081				07/29/08 09:30
Lead 210	930	pCi/L		79	70	130			
Sample ID: C08070547-007IMSD	Sample Matrix Spike Duplicate				Run: SUB-C106081				07/29/08 09:30
Lead 210	1400	pCi/L		117	70	130	39	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-R106081	Method Blank				Run: SUB-C106081				07/29/08 09:30
Lead 210	5	pCi/L							U
Sample ID: LCS-R106081	Laboratory Control Sample				Run: SUB-C106081				07/29/08 09:30
Lead 210	110	pCi/L		87	70	130			
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: C08070935-001FMDS	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			

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: 10/03/08
Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R105965		
Sample ID: R08070244-003H Lead 210	Sample Matrix Spike 510	pCi/L		88	70	130			07/25/08 11:45
Sample ID: R08070244-003H Lead 210	Sample Matrix Spike Duplicate 560	pCi/L		95	70	130	8	30	07/25/08 11:45
Sample ID: R08070244-006H Lead 210	Sample Duplicate -3.1	pCi/L					43	30	R 07/25/08 11:45
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R105965 Lead 210	Method Blank -1	pCi/L							U 07/25/08 11:45
Sample ID: LCS-R105965 Lead 210	Laboratory Control Sample 130	pCi/L		110	70	130			07/25/08 11:45
Method: RMO-3008							Batch: C_19224		
Sample ID: R08070244-009I Polonium 210	Sample Matrix Spike 50	pCi/L	1.0	119	70	130			07/31/08 14:15
Sample ID: R08070244-009I Polonium 210	Sample Matrix Spike Duplicate 44	pCi/L	1.0	104	70	130	14	30	07/31/08 14:15
Sample ID: LCS-R105583 Polonium 210	Laboratory Control Sample 80	pCi/L	1.0	93	70	130			07/31/08 14:15
Sample ID: MB-R105583 Polonium 210	Method Blank 0.2	pCi/L							U 07/31/08 14:15
Method: RMO-3008							Batch: C_19232		
Sample ID: C08071003-002KMS Polonium 210	Sample Matrix Spike 39	pCi/L	1.0	95	70	130			08/08/08 16:32
Sample ID: C08071003-002KMSD Polonium 210	Sample Matrix Spike Duplicate 44	pCi/L	1.0	109	70	130	13	30	08/08/08 16:32
Sample ID: LCS-19232 Polonium 210	Laboratory Control Sample 86	pCi/L	1.0	105	70	130			08/08/08 16:32
Sample ID: MB-19232 Polonium 210	Method Blank 0.6	pCi/L							U 08/08/08 16:32

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: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_PO210-0122		
Sample ID: C08070897-005DMS	Sample Matrix Spike					Run: SUB-C105573			08/07/08 14:50
Polonium 210	80	pCi/L	1.0	90	70	130			
Sample ID: C08070897-005DMSD	Sample Matrix Spike Duplicate					Run: SUB-C105573			08/07/08 14:50
Polonium 210	87	pCi/L	1.0	98	70	130	8.1	30	
Sample ID: MB-PO210-0122	Method Blank					Run: SUB-C105573			08/07/08 17:07
Polonium 210	0.4	pCi/L							U
Sample ID: LCS-R105573	Laboratory Control Sample					Run: SUB-C105573			08/04/08 03:45
Polonium 210	42	pCi/L	1.0	97	70	130			
Method: SW7470A							Analytical Run: SUB-B114551		
Sample ID: QCS	Initial Calibration Verification Standard								07/23/08 08:21
Mercury	0.0021	mg/L	0.0010	105	90	110			

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

PLEASE PRINT - Provide as much information as possible.

Company Name: **RESPEC**
 Report Mail Address:
 Invoice Address:
 Project Name, PWS, Permit, Etc.: **Southfork DB**
 Contact Name: **Cory Foreman**
 Phone/Fax:
 Email: **respec.com**
 Sample Origin: **SP**
 EPA/State Compliance: Yes No
 Sampler: (Please Print) **Eric Kuntz**
 Invoice Contact & Phone:
 Purchase Order:
 Quote/Bottle Order:

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

DW A2LA
 GSA EDD/EDT (Electronic Data)
 POT/WW/WTP Format: _____
 State: _____ LEVEL IV
 Other: _____ NEIAC

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED			SEE ATTACHED Normal Turnaround (TAT)	RUSH	Comments: Contact EII prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Shipped by: Cooler ID#:	Receipt Temp On Ice <input type="checkbox"/> 5.1 °C <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Custody Seal Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Signature <input checked="" type="checkbox"/> <input type="checkbox"/>
				Number of Containers	Sample Type: AWS VBO	Air						
1 Dew Burd GW 622	7/14/08	12:35	W									
2 Dew Burd GW 615	7/14/08	11:50	W									
3 Dew Burd GW 695	7/14/08	13:42	W									
4 Dew Burd GW 696	7/14/08	15:10	W									
5 Dew Burd GW 694	7/14/08	15:30	W									
6 Dew Burd GW 697	7/14/08	15:52	W									
7 Dew Burd GW 697	7/14/08	15:57	W									
8 Dew Burd GW 689	7/14/08	16:50	W									
9 Dew Burd GW 681	7/14/08	17:04	W									
10 Dew Burd GW 698	7/14/08	18:43	W									

Relinquished by (print): **Eric Kuntz** Date/Time: **7/14/08 21:30**
 Relinquished by (print): **Dustin Kuntz** Date/Time: **7-14-08 9:45**
 Signature: **[Signature]**
 Signature: **[Signature]**
 Received by (print): **Eric Kuntz** Date/Time: **7-15-08 8:00**
 Received by (print): **Eric Kuntz** Date/Time: **7-15-08 8:00**
 Signature: **[Signature]**
 Signature: **[Signature]**

LABORATORY USE ONLY

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be sub-contracted 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.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC		Project Name, PWS, Permit, Etc.: Powerbel DB		Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address:		Contact Name: Cory Foreman @ respec.com		Phone/Fax:	Sampler: (Please Print) Eric Knitz
Invoice Address:		Invoice Contact & Phone:		Purchase Order:	Quote/Bottle Order:
Special Report/Formats - ELL must be notified prior to sample submittal for the following:					
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers Sample Type: A W S V B O <input type="checkbox"/> Air Water Soils/Solids <input type="checkbox"/> Vegetation Bioassay Other	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	MATRIX	
1 Dewey Burdock 2 Dewey Burdock BLK		7/14/08	18:00	W	
ANALYSIS REQUESTED					
SEE ATTACHED					
Normal Turnaround (TAT)					
R U S H					
Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page		Comments: GW		Shipped by: Cooler E/eq: _____ Recipient Temp: 5.1 °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Signature Match: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Rediquished by (print): Eric Knitz		Date/Time: 7/14/08 21:30		Signature: 	
Requisitioned by (print): Dustin Knitz		Date/Time: 7/14/08 9:45		Signature: 	
Received by (print): Steve Traland		Date/Time: 7-14-08 8:00		Signature: 	
Received by Laboratory:		LABORATORY USE ONLY 8088 70244-011			

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



ANALYTICAL SUMMARY REPORT

October 03, 2008

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

Workorder No.: R08070471 Quote ID: R286

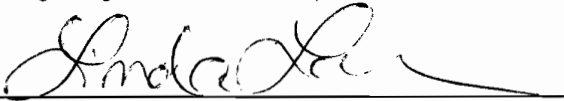
Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample from RESPEC Inc on 7/29/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08070471-001	DewBurd GW688	07/28/08 15:45	07/29/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

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



CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08070471

Date: 03-Oct-08

CASE NARRATIVE

The following Case Narrative contains exceptions or comments pertaining to the analysis of samples submitted by RESPEC Inc on 7/29/2008 8:45:00 AM. These samples were assigned ELI Workorder Number R08070471.

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.
- 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: C08071390

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: C08071390



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070471-001
 Client Sample ID: DewBurd GW688

Report Date: 10/03/08
 Collection Date: 07/28/08 15:45
 Date Received: 07/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	160	mg/L		5		1	A2320 B 08/01/08 14:53/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 08/01/08 14:53/mb
Bicarbonate as HCO3	195	mg/L		5		1	A2320 B 08/01/08 14:53/mb
Calcium	50.0	mg/L		0.5		2	E200.7 08/06/08 16:19/eli-c
Chloride	11	mg/L		1		1	E300.0 07/30/08 20:37/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0 07/30/08 20:37/jmh
Magnesium	21.1	mg/L		0.5		2	E200.7 08/06/08 16:19/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G 07/30/08 13:55/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 07/30/08 20:37/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 07/30/08 20:37/jmh
Potassium	12.0	mg/L		0.5		2	E200.7 08/06/08 16:19/eli-c
Silica	4.1	mg/L		0.5		2	E200.7 08/06/08 16:19/eli-c
Sodium	183	mg/L	D	2		2	E200.7 08/06/08 16:19/eli-c
Sulfate	445	mg/L	D	3		50	E300.0 07/30/08 20:21/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1280	umhos/cm		5.0		1	A2510 B 08/01/08 08:53/tb
Oxidation-Reduction Potential	290	mV				1	A2580 B 08/04/08 00:00/jmh
pH	8.21	s.u.		0.01		1	A4500-H B 08/04/08 15:37/tb
Sodium Adsorption Ratio (SAR)	5.5	unitless		0.10		1	Calculation 09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	790	mg/L		5		1	A2540 C 07/31/08 12:00/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 08/06/08 16:19/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8 08/11/08 16:15/eli-c
Barium	ND	mg/L		0.1		1	E200.8 08/05/08 20:29/eli-c
Boron	ND	mg/L		0.1		2	E200.7 08/06/08 16:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 08/05/08 20:29/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 08/05/08 20:29/eli-c
Copper	ND	mg/L		0.01		1	E200.8 08/05/08 20:29/eli-c
Iron	0.05	mg/L		0.03		2	E200.7 08/06/08 16:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8 08/05/08 20:29/eli-c
Manganese	0.04	mg/L		0.01		1	E200.8 08/05/08 20:29/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 08/05/08 20:29/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 08/05/08 20:29/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 08/05/08 20:29/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 08/15/08 15:35/eli-c
Silver	ND	mg/L		0.005		1	E200.8 08/11/08 16:15/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 08/05/08 20:29/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070471-001
 Client Sample ID: DewBurd GW688

Report Date: 10/03/08
 Collection Date: 07/28/08 15:45
 Date Received: 07/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	ND	mg/L		0.0003		1 E200.8	08/05/08 20:29/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	08/05/08 20:29/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	08/05/08 20:29/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	08/09/08 01:05/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	08/15/08 11:57/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	08/15/08 15:52/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	3.9	pCi/L				1 E900.0	09/06/08 01:18/eli-c
Gross Alpha precision (±)	2.0	pCi/L				1 E900.0	09/06/08 01:18/eli-c
Gross Alpha MDC	2.8	pCi/L				1 E900.0	09/06/08 01:18/eli-c
Gross Beta	14.3	pCi/L				1 E900.0	09/06/08 01:18/eli-c
Gross Beta precision (±)	2.3	pCi/L				1 E900.0	09/06/08 01:18/eli-c
Gross Beta MDC	3.5	pCi/L				1 E900.0	09/06/08 01:18/eli-c
Lead 210	-6	pCi/L	U			1 E909.0M	08/28/08 09:57/eli-c
Lead 210 precision (±)	7.3	pCi/L				1 E909.0M	08/28/08 09:57/eli-c
Lead 210 MDC	12.5	pCi/L				1 E909.0M	08/28/08 09:57/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1 RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1 RMO-3008	08/21/08 17:30/eli-c
Radium 226	0.6	pCi/L				1 E903.0	08/27/08 15:35/eli-ca
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	08/27/08 15:35/eli-ca
Radium 226 MDC	0.3	pCi/L				1 E903.0	08/27/08 15:35/eli-ca
Thorium 230	0.1	pCi/L	U	0.2		1 E907.0	08/20/08 16:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	08/20/08 16:00/eli-c
Gross Gamma	950	pCi/L		20		1 E901.1	08/08/08 07:23/eli-c
Gross Gamma precision (±)	160	pCi/L				1 E901.1	08/08/08 07:23/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-0.6	pCi/L	U			1 E909.0M	08/21/08 10:15/eli-c
Lead 210 precision (±)	7.1	pCi/L				1 E909.0M	08/21/08 10:15/eli-c
Lead 210 MDC	11.9	pCi/L				1 E909.0M	08/21/08 10:15/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	09/03/08 17:30/eli-c
Polonium 210 precision (±)	0.36	pCi/L				1 RMO-3008	09/03/08 17:30/eli-c
Radium 226	-0.4	pCi/L	U			1 E903.0	08/18/08 17:41/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	08/18/08 17:41/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08070471-001
 Client Sample ID: DewBurd GW688

Report Date: 10/03/08
 Collection Date: 07/28/08 15:45
 Date Received: 07/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.6	pCi/L					1	E903.0	08/18/08 17:41/eli-c
Thorium 230	0.2	pCi/L	U	0.2			1	E907.0	08/22/08 10:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	08/22/08 10:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1160	pCi/L		100			1	D5072-92	08/01/08 13:44/eli-c
Radon 222 precision (±)	127	pCi/L					1	D5072-92	08/01/08 13:44/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	08/06/08 15:43/eli-c
Arsenic	0.015	mg/L		0.001			10	E200.8	08/11/08 19:20/eli-c
Barium	ND	mg/L		0.1			10	E200.8	08/06/08 15:43/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	08/11/08 19:20/eli-c
Boron	ND	mg/L		0.1			2	E200.7	08/05/08 20:02/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	08/06/08 15:43/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	08/05/08 20:02/eli-c
Copper	ND	mg/L		0.01			2	E200.7	08/05/08 20:02/eli-c
Iron	0.14	mg/L		0.03			2	E200.7	08/05/08 20:02/eli-c
Lead	ND	mg/L		0.001			10	E200.8	08/06/08 15:43/eli-c
Manganese	0.05	mg/L		0.01			2	E200.7	08/05/08 20:02/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	08/05/08 13:50/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	08/05/08 20:02/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	08/05/08 20:02/eli-c
Selenium	ND	mg/L		0.001			10	E200.8	08/11/08 19:20/eli-c
Silver	ND	mg/L		0.005			10	E200.8	08/06/08 15:43/eli-c
Strontium	1.2	mg/L		0.1			2	E200.7	08/05/08 20:02/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	08/06/08 15:43/eli-c
Uranium	ND	mg/L		0.0003			10	E200.8	08/11/08 19:20/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	08/05/08 20:02/eli-c
DATA QUALITY									
A/C Balance (± 5)	-1.16	%					1	A1030 E	09/29/08 00:00/jmh
Anions	12.8	meq/L					1	A1030 E	09/29/08 00:00/jmh
Cations	12.5	meq/L					1	A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	830	mg/L					1	A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950						1	A1030 E	09/29/08 00:00/jmh

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 Definitions: 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: 10/03/08
 Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080801A-ALK-SEL-W		
Sample ID: LCS1_080801A Alkalinity, Total as CaCO3	Laboratory Control Sample 940 mg/L		5.0	94	90	110			08/01/08 14:01
Sample ID: MBLK1_080801A Alkalinity, Total as CaCO3	Method Blank ND mg/L		3						08/01/08 14:02
Method: A2510 B							Batch: 080801_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080801 Conductivity @ 25 C	Laboratory Control Sample 1420 umhos/cm		5.0	100	90	110			08/01/08 08:42
Sample ID: LCS1-1_080801 Conductivity @ 25 C	Laboratory Control Sample 152 umhos/cm		5.0	101	90	110			08/01/08 08:44
Sample ID: LCS2-1_080801 Conductivity @ 25 C	Laboratory Control Sample 4920 umhos/cm		5.0	98	90	110			08/01/08 08:45
Sample ID: MBLK-1_080801 Conductivity @ 25 C	Method Blank ND umhos/cm		5						08/01/08 08:46
Sample ID: R08070503-001ADUP Conductivity @ 25 C	Sample Duplicate 4010 umhos/cm		5.0				1	10	08/01/08 08:56
Method: A2540 C							Batch: 080731A-SLDS-TDS-W		
Sample ID: LCS1_080731A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 230 mg/L		5.0	116	90	110			07/31/08 11:39 S
Sample ID: MBLK1_080731A Solids, Total Dissolved TDS @ 180 C	Method Blank ND mg/L		3						07/31/08 11:40
Sample ID: R08070444-006AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 1500 mg/L		5.0	83	80	120			07/31/08 11:55
Sample ID: R08070444-006AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 1500 mg/L		5.0	99	80	120	2.1	10	07/31/08 11:56
Method: A2580 B							Batch: 080804-ORP-ISE-W		
Sample ID: LCS Oxidation-Reduction Potential	Laboratory Control Sample 470 mV			99	95	105			08/04/08 00:00
Sample ID: R08070471-001F Oxidation-Reduction Potential	Sample Duplicate 290 mV						0.3	10	08/04/08 00:00

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

Report Date: 10/03/08

Project: Edgemont

Work Order: R08070471

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	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: 080804_1_PH-W		
Sample ID: LCS_pH-1_080804	Laboratory Control Sample					Run: PH_COND2-R_080804A			08/04/08 15:34
pH	6.88	s.u.	0.010	100	98.55	101.45			
Sample ID: R08080016-004BDUP	Sample Duplicate					Run: PH_COND2-R_080804A			08/04/08 15:43
pH	8.02	s.u.	0.010				0.1	1.25	
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: R08070444-004BMS	Sample Matrix Spike					Run: TECHAA2-R_080730A			07/30/08 13:47
Nitrogen, Ammonia as N	0.13	mg/L	0.10	52	80	120			S
Sample ID: R08070444-004BMSD	Sample Matrix Spike Duplicate					Run: TECHAA2-R_080730A			07/30/08 13:48
Nitrogen, Ammonia as N	0.12	mg/L	0.10	48	80	120	9.6	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: 10/03/08
 Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: D5072-92									Batch: C_R105444
Sample ID: R08070471-001G Radon 222	Sample Duplicate 1230	pCi/L	100			Run: SUB-C105444	5.3	30	08/01/08 13:44
Sample ID: MB-R105444 Radon 222	Method Blank 40	pCi/L				Run: SUB-C105444			08/01/08 13:44
Sample ID: LCS-R105444 Radon 222	Laboratory Control Sample 324	pCi/L	100	94	70	130			08/01/08 13:44

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19343		
Sample ID: MB-19343	Method Blank			Run: SUB-C105373			08/05/08 19:34		
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						
Strontium	ND	mg/L	0.0004						
Zinc	0.003	mg/L	0.001						
Sample ID: LCS3-19343	Laboratory Control Sample			Run: SUB-C105373			08/05/08 19:38		
Boron	0.501	mg/L	0.10	100	85	115			
Chromium	0.501	mg/L	0.050	100	85	115			
Copper	0.505	mg/L	0.010	101	85	115			
Iron	2.72	mg/L	0.030	109	85	115			
Manganese	2.51	mg/L	0.010	101	85	115			
Molybdenum	0.498	mg/L	0.10	100	85	115			
Nickel	0.496	mg/L	0.050	99	85	115			
Strontium	0.493	mg/L	0.10	99	85	115			
Zinc	0.501	mg/L	0.010	100	85	115			
Sample ID: C08071410-001BMS3	Sample Matrix Spike			Run: SUB-C105373			08/05/08 20:10		
Boron	0.514	mg/L	0.10	103	70	130			
Chromium	0.504	mg/L	0.050	101	70	130			
Copper	0.514	mg/L	0.010	103	70	130			
Iron	2.80	mg/L	0.030	109	70	130			
Manganese	2.71	mg/L	0.010	100	70	130			
Molybdenum	0.500	mg/L	0.10	100	70	130			
Nickel	0.492	mg/L	0.050	98	70	130			
Strontium	2.00	mg/L	0.10	82	70	130			
Zinc	0.531	mg/L	0.010	99	70	130			
Sample ID: C08071410-001BMSD3	Sample Matrix Spike Duplicate			Run: SUB-C105373			08/05/08 20:14		
Boron	0.510	mg/L	0.10	102	70	130	0.9	20	
Chromium	0.515	mg/L	0.050	103	70	130	2.2	20	
Copper	0.527	mg/L	0.010	105	70	130	2.5	20	
Iron	2.84	mg/L	0.030	111	70	130	1.4	20	
Manganese	2.75	mg/L	0.010	102	70	130	1.8	20	
Molybdenum	0.509	mg/L	0.10	102	70	130	1.9	20	
Nickel	0.490	mg/L	0.050	98	70	130	0.3	20	
Strontium	2.15	mg/L	0.10	113	70	130	7.5	20	
Zinc	0.545	mg/L	0.010	102	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: 10/03/08
Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R105457		
Sample ID: MB-080806A	Method Blank		Run: SUB-C105457				08/06/08 13:48		
Silica	0.04	mg/L		0.02					
Aluminum	ND	mg/L		0.004					
Boron	0.02	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-080806A	Laboratory Fortified Blank		Run: SUB-C105457				08/06/08 15:10		
Silica	0.41	mg/L	0.10	103	85	125			
Aluminum	0.97	mg/L	0.10	97	85	125			
Boron	1.00	mg/L	0.10	100	85	125			
Calcium	54	mg/L	0.50	107	85	125			
Iron	1.0	mg/L	0.030	104	85	125			
Magnesium	53	mg/L	0.50	106	85	125			
Potassium	46	mg/L	0.50	92	85	125			
Sodium	49	mg/L	0.77	98	85	125			
Sample ID: C08061359-007EMS2	Sample Matrix Spike		Run: SUB-C105457				08/06/08 15:18		
Aluminum	1.97	mg/L	0.10	99	70	130			
Boron	2.17	mg/L	0.10	98	70	130			
Iron	2.14	mg/L	0.030	105	70	130			
Calcium	134	mg/L	1.0	106	70	130			
Magnesium	110	mg/L	1.0	105	70	130			
Potassium	100	mg/L	1.0	92	70	130			
Silica	6.57	mg/L	0.10		70	130			A
Sodium	246	mg/L	1.5	97	70	130			
Sample ID: C08061359-007EMSD2	Sample Matrix Spike Duplicate		Run: SUB-C105457				08/06/08 15:22		
Aluminum	2.04	mg/L	0.10	102	70	130	3.3	20	
Boron	2.27	mg/L	0.10	103	70	130	4.3	20	
Iron	2.23	mg/L	0.030	110	70	130	4.2	20	
Calcium	138	mg/L	1.0	110	70	130	3	20	
Magnesium	113	mg/L	1.0	109	70	130	3.1	20	
Potassium	99.5	mg/L	1.0	91	70	130	0.7	20	
Silica	6.83	mg/L	0.10		70	130	4	20	A
Sodium	250	mg/L	1.5	100	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19343		
Sample ID: MB-19343	Method Blank		Run: SUB-C105472				08/06/08 15:03		
Antimony	ND	mg/L	0.0002						
Arsenic	0.002	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	4E-05	mg/L	3E-05						
Lead	ND	mg/L	5E-05						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	4E-05						
Thallium	ND	mg/L	3E-05						
Uranium	0.0002	mg/L	3E-05						
Sample ID: LCS3-19343	Laboratory Control Sample		Run: SUB-C105472				08/06/08 15:37		
Antimony	0.545	mg/L	0.050	109	85	115			
Arsenic	0.521	mg/L	0.0010	104	85	115			
Barium	0.525	mg/L	0.10	105	85	115			
Beryllium	0.230	mg/L	0.010	92	85	115			
Cadmium	0.260	mg/L	0.010	104	85	115			
Lead	0.516	mg/L	0.050	103	85	115			
Selenium	0.523	mg/L	0.0020	105	85	115			
Silver	0.0479	mg/L	0.010	96	85	115			
Thallium	0.511	mg/L	0.10	102	85	115			
Uranium	0.547	mg/L	0.00032	109	85	115			
Sample ID: C08071410-001BMS3	Sample Matrix Spike		Run: SUB-C105472				08/06/08 15:57		
Antimony	0.559	mg/L	0.050	112	70	130			
Arsenic	0.546	mg/L	0.0010	109	70	130			
Barium	0.553	mg/L	0.10	107	70	130			
Cadmium	0.255	mg/L	0.010	102	70	130			
Lead	0.534	mg/L	0.050	107	70	130			
Selenium	0.535	mg/L	0.0010	107	70	130			
Silver	0.0473	mg/L	0.010	95	70	130			
Thallium	0.550	mg/L	0.10	110	70	130			
Uranium	0.627	mg/L	0.00030	125	70	130			
Sample ID: C08071410-001BMSD3	Sample Matrix Spike Duplicate		Run: SUB-C105472				08/06/08 16:04		
Antimony	0.564	mg/L	0.050	113	70	130	0.9	20	
Arsenic	0.542	mg/L	0.0010	108	70	130	0.8	20	
Barium	0.555	mg/L	0.10	107	70	130	0.2	20	
Cadmium	0.254	mg/L	0.010	101	70	130	0.4	20	
Lead	0.526	mg/L	0.050	105	70	130	1.5	20	
Selenium	0.527	mg/L	0.0010	105	70	130	1.7	20	
Silver	0.0475	mg/L	0.010	95	70	130	0.4	20	
Thallium	0.545	mg/L	0.10	109	70	130	0.8	20	
Uranium	0.628	mg/L	0.00030	125	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: 10/03/08

Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_19343
Sample ID: C08071410-001BMSD3	Sample Matrix Spike Duplicate					Run: SUB-C105472			08/06/08 16:04

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070471

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: R08070471-001C	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			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R105384		
Sample ID: R08070471-001C	Post Digestion Spike				Run: SUB-C105384				08/05/08 20:35
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: R08070471-001C	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	
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_R105674		
Sample ID: LRB	Method Blank				Run: SUB-C105674				08/11/08 12:08
Silver	5E-05	mg/L	7E-06						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C105674				08/11/08 12:15
Silver	0.0197	mg/L	0.0010	98	85	115			
Sample ID: C08080052-001FMS4	Post Digestion Spike				Run: SUB-C105674				08/11/08 19:51
Silver	0.00469	mg/L	0.010	23	70	130			S
Sample ID: C08080052-001FMSD4	Post Digestion Spike Duplicate				Run: SUB-C105674				08/11/08 20:24
Silver	0.00310	mg/L	0.010	16	70	130	0	20	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: 10/03/08
Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: B_33886		
Sample ID: MB-33886	Method Blank					Run: SUB-B115272			08/05/08 12:37
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33886	Laboratory Fortified Blank					Run: SUB-B115272			08/05/08 12:39
Mercury	0.0021	mg/L	0.0010	107	85	115			
Sample ID: B08072977-006CMS	Sample Matrix Spike					Run: SUB-B115272			08/05/08 13:11
Mercury	0.00230	mg/L	0.0010	115	70	130			
Sample ID: B08072977-006CMSD	Sample Matrix Spike Duplicate					Run: SUB-B115272			08/05/08 13:13
Mercury	0.00223	mg/L	0.0010	112	70	130	3.1	30	
Method: E245.1							Analytical Run: SUB-B115272		
Sample ID: QCS	Initial Calibration Verification Standard								08/05/08 12:29
Mercury	0.0018	mg/L	0.0010	92	90	110			
Method: E300.0							Batch: R36547		
Sample ID: LFB0807304819-1	Laboratory Fortified Blank					Run: DIONEX_080730A			07/30/08 11:36
Chloride	6.29	mg/L	0.50	126	90	110			S
Fluoride	2.02	mg/L	0.10	101	90	110			
Nitrogen, Nitrate as N	2.42	mg/L	0.10	97	90	110			
Nitrogen, Nitrite as N	2.52	mg/L	0.10	101	90	110			
Sulfate	16.9	mg/L	1.0	113	90	110			S
Sample ID: LFB0807304819-4	Laboratory Fortified Blank					Run: DIONEX_080730A			07/30/08 12:25
Chloride	4.91	mg/L	0.50	98	90	110			
Fluoride	2.04	mg/L	0.10	102	90	110			
Nitrogen, Nitrate as N	2.42	mg/L	0.10	97	90	110			
Nitrogen, Nitrite as N	2.54	mg/L	0.10	102	90	110			
Sulfate	14.6	mg/L	1.0	97	90	110			
Sample ID: R08070444-009AMS	Sample Matrix Spike					Run: DIONEX_080730A			07/30/08 19:32
Chloride	83.7	mg/L	1.1	92	80	120			
Fluoride	20.5	mg/L	0.11	98	80	120			
Nitrogen, Nitrate as N	25.2	mg/L	0.25	93	80	120			
Nitrogen, Nitrite as N	25.5	mg/L	0.58	102	80	120			
Sulfate	382	mg/L	1.0	84	80	120			
Sample ID: R08070444-009AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_080730A			07/30/08 19:48
Chloride	85.0	mg/L	1.1	94	80	120	1.5	10	
Fluoride	20.4	mg/L	0.11	98	80	120	0.3	10	
Nitrogen, Nitrate as N	25.1	mg/L	0.25	92	80	120	0.5	10	
Nitrogen, Nitrite as N	25.4	mg/L	0.58	102	80	120	0.5	10	
Sulfate	392	mg/L	1.0	90	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: 10/03/08
 Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0511		
Sample ID: MB-GrAB-0511	Method Blank					Run: SUB-C107112		09/05/08 11:49	
Gross Alpha	-0.2	pCi/L							U
Gross Beta	-2	pCi/L							
Sample ID: UNAT-GrAB-0511	Laboratory Control Sample					Run: SUB-C107112		09/05/08 11:50	
Gross Alpha	130	pCi/L		92	70	130			
Sample ID: C08080307-002FMS	Sample Matrix Spike					Run: SUB-C107112		09/05/08 11:49	
Gross Alpha	165	pCi/L		117	70	130			
Sample ID: C08080307-002FMSD	Sample Matrix Spike Duplicate					Run: SUB-C107112		09/05/08 11:50	
Gross Alpha	147	pCi/L		104	70	130	11	16.5	
Sample ID: Cs137-GrAB-0511	Laboratory Control Sample					Run: SUB-C107112		09/05/08 11:49	
Gross Beta	82	pCi/L		90	70	130			
Sample ID: C08080307-002FMS	Sample Matrix Spike					Run: SUB-C107112		09/05/08 11:50	
Gross Beta	87.6	pCi/L		92	70	130			
Sample ID: C08080307-002FMSD	Sample Matrix Spike Duplicate					Run: SUB-C107112		09/05/08 11:50	
Gross Beta	86.6	pCi/L		91	70	130	1.2	16	
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: R08070471-001H	Sample Duplicate					Run: SUB-C105938		08/08/08 07:23	
Gross Gamma	1100	pCi/L	20				11	30	
Method: E903.0							Batch: C_19385		
Sample ID: C08071321-001FMS	Sample Matrix Spike					Run: SUB-C106299		08/18/08 16:03	
Radium 226	47	pCi/L		120	70	130			
Sample ID: C08071321-001FMSD	Sample Matrix Spike Duplicate					Run: SUB-C106299		08/18/08 17:41	
Radium 226	40	pCi/L		103	70	130	16	25.8	
Sample ID: MB-19385	Method Blank					Run: SUB-C106299		08/18/08 17:41	
Radium 226	-2	pCi/L							U
Sample ID: LCS-19385	Laboratory Control Sample					Run: SUB-C106299		08/18/08 17:41	
Radium 226	96	pCi/L		124	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: 10/03/08
 Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-3016		
Sample ID: MB-RA226-3016	Method Blank					Run: SUB-C106616			08/27/08 17:58
Radium 226	-0.2	pCi/L							U
Sample ID: LCS-RA226-3016	Laboratory Control Sample					Run: SUB-C106616			08/27/08 17:58
Radium 226	8.5	pCi/L		110	70	130			
Sample ID: C08071259-001DMS	Sample Matrix Spike					Run: SUB-C106616			08/15/08 14:15
Radium 226	19	pCi/L		114	70	130			
Sample ID: C08071259-001DMSD	Sample Matrix Spike Duplicate					Run: SUB-C106616			08/15/08 14:15
Radium 226	18	pCi/L		109	70	130	4.8	30	
Method: E907.0							Batch: C_19385		
Sample ID: C08071095-003FMS	Sample Matrix Spike					Run: SUB-C106951			08/22/08 10:00
Thorium 230	24.9	pCi/L	0.20	100	70	130			
Sample ID: C08071095-003FMSD	Sample Matrix Spike Duplicate					Run: SUB-C106951			08/22/08 10:00
Thorium 230	23.1	pCi/L	0.20	94	70	130	7.5	30	
Sample ID: LCS-19385	Laboratory Control Sample					Run: SUB-C106951			08/22/08 10:00
Thorium 230	50.0	pCi/Filter	0.20	102	70	130			
Sample ID: MB-19385	Method Blank					Run: SUB-C106951			08/22/08 10:00
Thorium 230	0.4	pCi/L							U
Method: E907.0							Batch: C_R106719		
Sample ID: LCS-R106719	Laboratory Control Sample					Run: SUB-C106719			08/20/08 16:00
Thorium 230	6.10	pCi/L	0.20	102	70	130			
Sample ID: C08071230-006CMS	Sample Matrix Spike					Run: SUB-C106719			08/20/08 16:00
Thorium 230	17.4	pCi/L	0.20	107	70	130			
Sample ID: C08071230-006CMSD	Sample Matrix Spike Duplicate					Run: SUB-C106719			08/20/08 16:00
Thorium 230	12.7	pCi/L	0.20	79	70	130	31	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-R106719	Method Blank					Run: SUB-C106719			08/20/08 16:00
Thorium 230	ND	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



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_19385		
Sample ID: C08071095-005FMS	Sample Matrix Spike					Run: SUB-C106789			08/21/08 10:15
Lead 210	950	pCi/L	81		70	130			
Sample ID: C08071095-005FMSD	Sample Matrix Spike Duplicate					Run: SUB-C106789			08/21/08 10:15
Lead 210	1200	pCi/L	103		70	130	23	30	
Sample ID: MB-R106789	Method Blank					Run: SUB-C106789			08/21/08 10:15
Lead 210	-4	pCi/L							U
Sample ID: LCS-R106789	Laboratory Control Sample					Run: SUB-C106789			08/21/08 10:15
Lead 210	110	pCi/L	101		70	130			
Method: E909.0M							Batch: C_R107244		
Sample ID: C08080052-002AMS	Sample Matrix Spike					Run: SUB-C107244			08/28/08 09:57
Lead 210	580	pCi/L	100		70	130			
Sample ID: C08080052-002AMSD	Sample Matrix Spike Duplicate					Run: SUB-C107244			08/28/08 09:57
Lead 210	780	pCi/L	134		70	130	29	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 batch is approved.									
Sample ID: C08080052-003ADUP	Sample Duplicate					Run: SUB-C107244			08/28/08 09:57
Lead 210	-6.0	pCi/L					180	30	UR
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R107244	Method Blank					Run: SUB-C107244			08/28/08 09:57
Lead 210	-8	pCi/L							U
Sample ID: LCS-R107244	Laboratory Control Sample					Run: SUB-C107244			08/28/08 09:57
Lead 210	110	pCi/L	104		70	130			
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.
 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: 10/03/08
Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R107327		
Sample ID: C08080030-003FMS	Sample Matrix Spike				Run: SUB-C107327			09/03/08 17:30	
Polonium 210	21	pCi/L	1.0	92	70	130			
Sample ID: C08080030-003FMSD	Sample Matrix Spike Duplicate				Run: SUB-C107327			09/03/08 17:30	
Polonium 210	24	pCi/L	1.0	108	70	130	14	30	
Sample ID: LCS-19385	Laboratory Control Sample				Run: SUB-C107327			09/03/08 17:30	
Polonium 210	100	pCi/L	1.0	126	70	130			
Sample ID: MB-19385	Method Blank				Run: SUB-C107327			09/03/08 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



Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name: RESER		Project Name, PWS, Permit, Etc. Buerfeld DS		Sample Origin State:	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address:		Contact Name: Cory Foreman		Phone/Fax: 605-709-1101	Sampler: (Please Print) Eric Kante
Invoice Address:		Invoice Contact & Phone:		Purchase Order:	Quote/Bottle Order:
Special Report/Formats – EII must be notified prior to sample submittal for the following:					
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: <input type="checkbox"/> Other:		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) Dew Burd SWISS 7/28/08 15:45		Collection Date	Collection Time	MATRIX W	
Custody Record MUST be Signed		Relinquished by (print): Eric Kante	Date/Time: 7/29/08 08:45	Signature: <i>[Signature]</i>	Received by (print): Steve Fairland
Sample Disposal: Return to Client: Lab Disposal:		Received by Laboratory:		Date/Time:	Signature:
ANALYSIS REQUESTED RESER					
SEE ATTACHED Normal Turnaround (TAT) H					
Contact EII prior to RUSH sample submittal for charges and scheduling – See Instruction Page Comments:					
Shipped by: Cooler Date: Receipt Temp: 2.2 °C On Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody Seal Intact: Y <input type="checkbox"/> N <input type="checkbox"/> Signature Match: Y <input type="checkbox"/> N <input type="checkbox"/>					
LABORATORY USE ONLY 85670971101					

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



ANALYTICAL SUMMARY REPORT

November 14, 2008

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

Workorder No.: R08080301 Quote ID: R286

Project Name: Edgemont

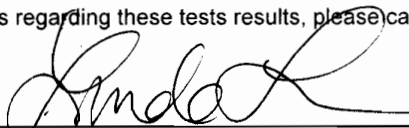
Energy Laboratories Inc. received the following 5 samples for RESPEC Inc on 8/20/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08080301-001	DewBurd GW3026	08/19/08 16:25	08/20/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08080301-002	DewBurd GW3026	08/19/08 16:35	08/20/08	Aqueous	Same As Above
R08080301-003	DewBurd GW698	08/19/08 17:35	08/20/08	Aqueous	Same As Above
R08080301-004	DewBurd GW681	08/19/08 19:08	08/20/08	Aqueous	Same As Above
R08080301-005	DewBurd GW689	08/19/08 19:18	08/20/08	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



CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08080301

Date: 14-Nov-08

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 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.
- 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: C08081029

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: C08081029



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080301-001
 Client Sample ID: DewBurd GW3026

Report Date: 11/14/08
 Collection Date: 08/19/08 16:25
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	208	mg/L		5		1	A2320 B 08/21/08 11:43/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 08/21/08 11:43/mb
Bicarbonate as HCO3	254	mg/L		5		1	A2320 B 08/21/08 11:43/mb
Calcium	499	mg/L		0.5		2	E200.7 09/02/08 17:29/eli-c
Chloride	15	mg/L		1		1	E300.0 08/21/08 23:06/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0 08/21/08 23:06/jmh
Magnesium	152	mg/L		0.5		2	E200.7 09/02/08 17:29/eli-c
Nitrogen, Ammonia as N	0.6	mg/L		0.1		1	A4500-NH3 G 08/21/08 17:48/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 08/21/08 23:06/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 08/21/08 23:06/jmh
Potassium	21.9	mg/L		0.5		2	E200.7 09/02/08 17:29/eli-c
Silica	2.2	mg/L		0.5		2	E200.7 09/02/08 17:29/eli-c
Sodium	172	mg/L	D	2		2	E200.7 09/02/08 17:29/eli-c
Sulfate	1870	mg/L	D	3		50	E300.0 08/21/08 22:49/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	3480	umhos/cm		5.0		1	A2510 B 08/22/08 11:48/tb
Oxidation-Reduction Potential	130	mV				1	A2580 B 08/25/08 00:00/jmh
pH	7.07	s.u.		0.01		1	A4500-H B 08/22/08 13:53/tb
Sodium Adsorption Ratio (SAR)	1.7	unitless		0.10		1	Calculation 11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	2800	mg/L		5		1	A2540 C 08/25/08 15:53/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 09/02/08 17:29/eli-c
Arsenic	0.017	mg/L		0.001		1	E200.8 09/03/08 03:19/eli-c
Barium	ND	mg/L		0.1		2	E200.7 09/02/08 17:29/eli-c
Boron	0.2	mg/L		0.1		2	E200.7 09/02/08 17:29/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 09/03/08 03:19/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 09/02/08 17:29/eli-c
Copper	ND	mg/L		0.01		1	E200.8 09/03/08 03:19/eli-c
Iron	25.4	mg/L		0.03		2	E200.7 09/02/08 17:29/eli-c
Lead	ND	mg/L		0.001		1	E200.8 09/03/08 03:19/eli-c
Manganese	1.60	mg/L		0.01		1	E200.8 09/03/08 03:19/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 09/03/08 03:19/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 09/02/08 17:29/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 09/02/08 17:29/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 09/01/08 11:37/eli-c
Silver	ND	mg/L		0.005		1	E200.8 09/03/08 03:19/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 09/03/08 03:19/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080301-001
 Client Sample ID: DewBurd GW3026

Report Date: 11/14/08
 Collection Date: 08/19/08 16:25
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0106	mg/L		0.0003		1 E200.8	09/03/08 03:19/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	09/03/08 03:19/eli-c
Zinc	0.02	mg/L		0.01		2 E200.7	09/02/08 17:29/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	09/11/08 01:11/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	08/31/08 16:02/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	77.5	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Alpha precision (±)	11.6	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Alpha MDC	10.4	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Beta	30.2	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Beta precision (±)	7.3	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Beta MDC	11.4	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Lead 210	2.1	pCi/L	U			1 E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.4	pCi/L				1 E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1 E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1 RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1 RMO-3008	09/03/08 19:15/eli-c
Radium 226	9.5	pCi/L				1 E903.0	09/15/08 16:28/eli-c
Radium 226 precision (±)	0.7	pCi/L				1 E903.0	09/15/08 16:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	09/20/08 12:26/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1 E907.0	09/20/08 12:26/eli-c
Gross Gamma	840	pCi/L		20		1 E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	140	pCi/L				1 E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-5	pCi/L	U			1 E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.5	pCi/L				1 E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1 E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.19	pCi/L				1 RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.3	pCi/L	U			1 E903.0	09/17/08 17:18/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	09/17/08 17:18/eli-c
Radium 226 MDC	0.5	pCi/L				1 E903.0	09/17/08 17:18/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080301-001
 Client Sample ID: DewBurd GW3026

Report Date: 11/14/08
 Collection Date: 08/19/08 16:25
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	09/29/08 13:22/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	09/29/08 13:22/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	836	pCi/L		100		1 D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	109	pCi/L				1 D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	09/03/08 03:25/eli-c
Arsenic	0.022	mg/L		0.001		1 E200.8	09/03/08 03:25/eli-c
Barium	ND	mg/L		0.1		2 E200.7	09/02/08 19:55/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	09/03/08 21:47/eli-c
Boron	0.1	mg/L		0.1		2 E200.7	09/02/08 19:55/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	09/03/08 03:25/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	09/02/08 19:55/eli-c
Copper	ND	mg/L		0.01		2 E200.7	09/02/08 19:55/eli-c
Iron	25.8	mg/L		0.03		2 E200.7	09/02/08 19:55/eli-c
Lead	ND	mg/L		0.001		1 E200.8	09/03/08 03:25/eli-c
Manganese	1.64	mg/L		0.01		1 E200.8	09/03/08 03:25/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	08/28/08 08:08/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	09/02/08 19:55/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	09/02/08 19:55/eli-c
Selenium	0.001	mg/L		0.001		1 E200.8	09/03/08 03:25/eli-c
Silver	ND	mg/L		0.005		1 E200.8	09/03/08 03:25/eli-c
Strontium	7.2	mg/L		0.1		2 E200.7	09/02/08 19:55/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	09/03/08 03:25/eli-c
Uranium	0.0105	mg/L		0.0003		1 E200.8	09/03/08 03:25/eli-c
Zinc	0.02	mg/L		0.01		2 E200.7	09/02/08 19:55/eli-c
DATA QUALITY							
A/C Balance (± 5)	3.22	%				1 A1030 E	11/04/08 00:00/jmh
Anions	43.6	meq/L				1 A1030 E	11/04/08 00:00/jmh
Cations	46.5	meq/L				1 A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	2860	mg/L				1 A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.980					1 A1030 E	11/04/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: R08080301-002
 Client Sample ID: DewBurd GW3026

Report Date: 11/14/08
 Collection Date: 08/19/08 16:35
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	206	mg/L		5	1	A2320 B	08/21/08 11:46/mb
Carbonate as CO3	ND	mg/L		5	1	A2320 B	08/21/08 11:46/mb
Bicarbonate as HCO3	251	mg/L		5	1	A2320 B	08/21/08 11:46/mb
Calcium	481	mg/L		0.5	2	E200.7	09/02/08 17:45/eli-c
Chloride	15	mg/L		1	1	E300.0	08/22/08 00:12/jmh
Fluoride	0.4	mg/L		0.1	1	E300.0	08/22/08 00:12/jmh
Magnesium	147	mg/L		0.5	2	E200.7	09/02/08 17:45/eli-c
Nitrogen, Ammonia as N	0.6	mg/L		0.1	1	A4500-NH3 G	08/21/08 17:50/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1	1	E300.0	08/22/08 00:12/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1	1	E300.0	08/22/08 00:12/jmh
Potassium	21.9	mg/L		0.5	2	E200.7	09/02/08 17:45/eli-c
Silica	2.2	mg/L		0.5	2	E200.7	09/02/08 17:45/eli-c
Sodium	172	mg/L	D	2	2	E200.7	09/02/08 17:45/eli-c
Sulfate	1670	mg/L	D	3	50	E300.0	08/21/08 23:22/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	3310	umhos/cm		5.0	1	A2510 B	08/22/08 11:49/tb
Oxidation-Reduction Potential	160	mV			1	A2580 B	08/25/08 00:00/jmh
pH	7.08	s.u.		0.01	1	A4500-H B	08/22/08 13:56/tb
Sodium Adsorption Ratio (SAR)	1.8	unitless		0.10	1	Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	2800	mg/L		5	1	A2540 C	08/25/08 15:53/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1	2	E200.7	09/02/08 17:45/eli-c
Arsenic	0.014	mg/L		0.001	1	E200.8	09/03/08 03:59/eli-c
Barium	ND	mg/L		0.1	2	E200.7	09/02/08 17:45/eli-c
Boron	0.2	mg/L		0.1	2	E200.7	09/02/08 17:45/eli-c
Cadmium	ND	mg/L		0.005	1	E200.8	09/03/08 03:59/eli-c
Chromium	ND	mg/L		0.05	2	E200.7	09/02/08 17:45/eli-c
Copper	ND	mg/L		0.01	1	E200.8	09/03/08 03:59/eli-c
Iron	22.7	mg/L		0.03	2	E200.7	09/02/08 17:45/eli-c
Lead	ND	mg/L		0.001	1	E200.8	09/03/08 03:59/eli-c
Manganese	1.59	mg/L		0.01	1	E200.8	09/03/08 03:59/eli-c
Mercury	ND	mg/L		0.001	1	E200.8	09/03/08 03:59/eli-c
Molybdenum	ND	mg/L		0.1	2	E200.7	09/02/08 17:45/eli-c
Nickel	ND	mg/L		0.05	2	E200.7	09/02/08 17:45/eli-c
Selenium	ND	mg/L		0.001	1	A3114 B	09/01/08 11:35/eli-c
Silver	ND	mg/L		0.005	1	E200.8	09/03/08 03:59/eli-c
Thorium 232	ND	mg/L		0.005	1	E200.8	09/03/08 03:59/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080301-002
 Client Sample ID: DewBurd GW3026

Report Date: 11/14/08
 Collection Date: 08/19/08 16:35
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0111	mg/L		0.0003		1	E200.8	09/03/08 03:59/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/03/08 03:59/eli-c
Zinc	0.02	mg/L		0.01		2	E200.7	09/02/08 17:45/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/11/08 01:15/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/08 16:04/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	79.0	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Gross Alpha precision (±)	11.6	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Gross Alpha MDC	10.2	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Gross Beta	30.1	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Gross Beta precision (±)	7.3	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Gross Beta MDC	11.4	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Lead 210	1.9	pCi/L	U			1	E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.4	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1	RMO-3008	09/03/08 19:15/eli-c
Radium 226	8.7	pCi/L				1	E903.0	09/15/08 16:28/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	09/15/08 16:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	09/20/08 12:26/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	09/20/08 12:26/eli-c
Gross Gamma	900	pCi/L		20		1	E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	140	pCi/L				1	E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-9	pCi/L	U			1	E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.5	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.19	pCi/L				1	RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	09/17/08 17:18/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	09/17/08 17:18/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	09/17/08 17:18/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080301-002
 Client Sample ID: DewBurd GW3026

Report Date: 11/14/08
 Collection Date: 08/19/08 16:35
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	09/29/08 13:22/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	09/29/08 13:22/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	800	pCi/L		100		1	D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	108	pCi/L				1	D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	09/03/08 04:06/eli-c
Arsenic	0.021	mg/L		0.001		1	E200.8	09/03/08 04:06/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/02/08 19:59/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	09/03/08 21:54/eli-c
Boron	0.2	mg/L		0.1		1	E200.8	09/03/08 21:54/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/03/08 04:06/eli-c
Chromium	0.42	mg/L		0.05		2	E200.7	09/02/08 19:59/eli-c
Copper	ND	mg/L		0.01		2	E200.7	09/02/08 19:59/eli-c
Iron	29.1	mg/L		0.03		2	E200.7	09/02/08 19:59/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/03/08 04:06/eli-c
Manganese	1.58	mg/L		0.01		2	E200.7	09/02/08 19:59/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	08/28/08 08:18/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	09/02/08 19:59/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/02/08 19:59/eli-c
Selenium	0.001	mg/L		0.001		1	E200.8	09/03/08 04:06/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/03/08 04:06/eli-c
Strontium	7.1	mg/L		0.1		2	E200.7	09/02/08 19:59/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	09/03/08 04:06/eli-c
Uranium	0.0112	mg/L		0.0003		1	E200.8	09/03/08 04:06/eli-c
Zinc	0.02	mg/L		0.01		2	E200.7	09/02/08 19:59/eli-c
DATA QUALITY								
A/C Balance (± 5)	6.76	%				1	A1030 E	11/04/08 00:00/jmh
Anions	39.4	meq/L				1	A1030 E	11/04/08 00:00/jmh
Cations	45.1	meq/L				1	A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	2640	mg/L				1	A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.06					1	A1030 E	11/04/08 00:00/jmh

Report: RL - Analyte reporting limit.
 Definitions: 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: R08080301-003
 Client Sample ID: DewBurd GW698

Report Date: 11/14/08
 Collection Date: 08/19/08 17:35
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	122	mg/L		5		1	A2320 B	08/21/08 11:48/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/21/08 11:48/mb
Bicarbonate as HCO3	149	mg/L		5		1	A2320 B	08/21/08 11:48/mb
Calcium	385	mg/L		0.5		2	E200.7	09/02/08 17:57/eli-c
Chloride	10	mg/L		1		1	E300.0	08/22/08 01:17/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	08/22/08 01:17/jmh
Magnesium	139	mg/L		0.5		2	E200.7	09/02/08 17:57/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	08/21/08 17:51/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	08/22/08 01:17/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	08/22/08 01:17/jmh
Potassium	16.0	mg/L		0.5		2	E200.7	09/02/08 17:57/eli-c
Silica	5.0	mg/L		0.5		2	E200.7	09/02/08 17:57/eli-c
Sodium	89	mg/L	D	2		2	E200.7	09/02/08 17:57/eli-c
Sulfate	1290	mg/L	D	3		50	E300.0	08/22/08 00:28/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2840	umhos/cm		5.0		1	A2510 B	08/22/08 11:50/tb
Oxidation-Reduction Potential	44	mV				1	A2580 B	08/25/08 00:00/jmh
pH	7.27	s.u.		0.01		1	A4500-H B	08/22/08 13:58/tb
Sodium Adsorption Ratio (SAR)	0.99	unitless		0.10		1	Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	08/25/08 15:54/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	09/02/08 17:57/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	09/03/08 04:13/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/02/08 17:57/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/02/08 17:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/03/08 04:13/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/02/08 17:57/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/03/08 04:13/eli-c
Iron	4.36	mg/L		0.03		2	E200.7	09/02/08 17:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/03/08 04:13/eli-c
Manganese	2.55	mg/L		0.01		2	E200.7	09/02/08 17:57/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/03/08 04:13/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	09/02/08 17:57/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/02/08 17:57/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	09/01/08 11:39/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/03/08 04:13/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/03/08 04:13/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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. Page 7 of 15



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080301-003
 Client Sample ID: DewBurd GW698

Report Date: 11/14/08
 Collection Date: 08/19/08 17:35
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.113	mg/L		0.0003		1 E200.8	09/03/08 04:13/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	09/03/08 04:13/eli-c
Zinc	0.01	mg/L		0.01		2 E200.7	09/02/08 17:57/eli-c
METALS - SUSPENDED							
Uranium	0.0023	mg/L		0.0003		1 E200.8	09/11/08 01:20/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	08/31/08 16:06/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1560	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Alpha precision (±)	39.4	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Alpha MDC	8.0	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Beta	488	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Beta precision (±)	11.6	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Beta MDC	9.4	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Lead 210	3.1	pCi/L	U			1 E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.4	pCi/L				1 E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1 E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1 RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1 RMO-3008	09/03/08 19:15/eli-c
Radium 226	372	pCi/L				1 E903.0	09/15/08 16:28/eli-c
Radium 226 precision (±)	4.1	pCi/L				1 E903.0	09/15/08 16:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	09/20/08 12:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	09/20/08 12:26/eli-c
Gross Gamma	1300	pCi/L		20		1 E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	200	pCi/L				1 E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	1.1	pCi/L	U			1 E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.6	pCi/L				1 E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1 E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.5	pCi/L	U	1.0		1 RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.48	pCi/L				1 RMO-3008	09/15/08 14:35/eli-c
Radium 226	1.7	pCi/L				1 E903.0	09/17/08 17:18/eli-c
Radium 226 precision (±)	0.5	pCi/L				1 E903.0	09/17/08 17:18/eli-c
Radium 226 MDC	0.5	pCi/L				1 E903.0	09/17/08 17:18/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080301-003
 Client Sample ID: DewBurd GW698

Report Date: 11/14/08
 Collection Date: 08/19/08 17:35
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.5	pCi/L		0.2		1 E907.0	09/29/08 13:22/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1 E907.0	09/29/08 13:22/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	38200	pCi/L		100		1 D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	342	pCi/L				1 D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		10 E200.8	09/04/08 00:10/eli-c
Arsenic	ND	mg/L	D	0.004		1 E200.8	10/18/08 14:53/eli-c
Barium	ND	mg/L		0.1		2 E200.7	09/03/08 03:30/eli-c
Beryllium	ND	mg/L	D	0.003		10 E200.8	09/04/08 00:10/eli-c
Boron	ND	mg/L		0.1		2 E200.7	09/03/08 03:30/eli-c
Cadmium	ND	mg/L		0.005		10 E200.8	09/04/08 00:10/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	09/03/08 03:30/eli-c
Copper	ND	mg/L		0.01		2 E200.7	09/03/08 03:30/eli-c
Iron	4.78	mg/L		0.03		2 E200.7	09/03/08 03:30/eli-c
Lead	ND	mg/L		0.001		10 E200.8	09/04/08 00:10/eli-c
Manganese	2.54	mg/L		0.01		2 E200.7	09/03/08 03:30/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	08/28/08 08:20/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	09/03/08 03:30/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	09/03/08 03:30/eli-c
Selenium	ND	mg/L	D	0.003		10 E200.8	09/04/08 00:10/eli-c
Silver	ND	mg/L	D	0.02		10 E200.8	09/04/08 00:10/eli-c
Strontium	4.6	mg/L		0.1		2 E200.7	09/03/08 03:30/eli-c
Thallium	ND	mg/L		0.001		10 E200.8	09/04/08 00:10/eli-c
Uranium	0.101	mg/L	D	0.0005		10 E200.8	09/04/08 00:10/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	09/03/08 03:30/eli-c
DATA QUALITY							
A/C Balance (± 5)	8.93	%				1 A1030 E	11/04/08 00:00/jmh
Anions	29.5	meq/L				1 A1030 E	11/04/08 00:00/jmh
Cations	35.3	meq/L				1 A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	2010	mg/L				1 A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.13					1 A1030 E	11/04/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: R08080301-004
 Client Sample ID: DewBurd GW681

Report Date: 11/14/08
 Collection Date: 08/19/08 19:08
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
MAJOR IONS							
Alkalinity, Total as CaCO3	172	mg/L		5	1	A2320 B	08/21/08 11:51/mb
Carbonate as CO3	ND	mg/L		5	1	A2320 B	08/21/08 11:51/mb
Bicarbonate as HCO3	210	mg/L		5	1	A2320 B	08/21/08 11:51/mb
Calcium	66.5	mg/L		0.5	2	E200.7	09/02/08 18:06/eli-c
Chloride	16	mg/L		1	1	E300.0	08/22/08 01:50/jmh
Fluoride	0.5	mg/L		0.1	1	E300.0	08/22/08 01:50/jmh
Magnesium	24.7	mg/L		0.5	2	E200.7	09/02/08 18:06/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1	1	A4500-NH3 G	08/21/08 17:54/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1	1	E300.0	08/22/08 01:50/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1	1	E300.0	08/22/08 01:50/jmh
Potassium	9.8	mg/L		0.5	2	E200.7	09/02/08 18:06/eli-c
Silica	3.9	mg/L		0.5	2	E200.7	09/02/08 18:06/eli-c
Sodium	222	mg/L	D	2	2	E200.7	09/02/08 18:06/eli-c
Sulfate	489	mg/L	D	3	50	E300.0	08/22/08 01:34/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1450	umhos/cm		5.0	1	A2510 B	08/22/08 11:52/tb
Oxidation-Reduction Potential	160	mV			1	A2580 B	08/25/08 00:00/jmh
pH	8.01	s.u.		0.01	1	A4500-H B	08/22/08 14:00/tb
Sodium Adsorption Ratio (SAR)	5.9	unitless		0.10	1	Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5	1	A2540 C	08/25/08 15:54/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1	2	E200.7	09/02/08 18:06/eli-c
Arsenic	0.002	mg/L		0.001	1	E200.8	09/03/08 04:20/eli-c
Barium	ND	mg/L		0.1	2	E200.7	09/02/08 18:06/eli-c
Boron	ND	mg/L		0.1	2	E200.7	09/02/08 18:06/eli-c
Cadmium	ND	mg/L		0.005	1	E200.8	09/03/08 04:20/eli-c
Chromium	ND	mg/L		0.05	2	E200.7	09/02/08 18:06/eli-c
Copper	ND	mg/L		0.01	1	E200.8	09/03/08 04:20/eli-c
Iron	ND	mg/L		0.03	2	E200.7	09/02/08 18:06/eli-c
Lead	ND	mg/L		0.001	1	E200.8	09/03/08 04:20/eli-c
Manganese	0.09	mg/L		0.01	2	E200.7	09/02/08 18:06/eli-c
Mercury	ND	mg/L		0.001	1	E200.8	09/03/08 04:20/eli-c
Molybdenum	ND	mg/L		0.1	2	E200.7	09/02/08 18:06/eli-c
Nickel	ND	mg/L		0.05	2	E200.7	09/02/08 18:06/eli-c
Selenium	ND	mg/L		0.001	1	A3114 B	09/01/08 11:41/eli-c
Silver	ND	mg/L		0.005	1	E200.8	09/03/08 04:20/eli-c
Thorium 232	ND	mg/L		0.005	1	E200.8	09/03/08 04:20/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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. Page 10 of 15



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080301-004
 Client Sample ID: DewBurd GW681

Report Date: 11/14/08
 Collection Date: 08/19/08 19:08
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0100	mg/L		0.0003		1 E200.8	09/03/08 04:20/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	09/03/08 04:20/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	08/26/08 06:43/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	09/11/08 01:24/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	08/31/08 16:08/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1430	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Alpha precision (±)	25.9	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Alpha MDC	3.8	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Beta	423	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Beta precision (±)	7.2	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Beta MDC	4.7	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Lead 210	32.2	pCi/L				1 E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.8	pCi/L				1 E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1 E909.0M	09/04/08 07:39/eli-c
Polonium 210	3.7	pCi/L		1.0		1 RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	1.9	pCi/L				1 RMO-3008	09/03/08 19:15/eli-c
Radium 226	362	pCi/L				1 E903.0	09/15/08 16:28/eli-c
Radium 226 precision (±)	4.2	pCi/L				1 E903.0	09/15/08 16:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	09/20/08 12:26/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1 E907.0	09/20/08 12:26/eli-c
Gross Gamma	2800	pCi/L		20		1 E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	310	pCi/L				1 E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-1	pCi/L	U			1 E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.6	pCi/L				1 E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1 E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.6	pCi/L	U	1.0		1 RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.43	pCi/L				1 RMO-3008	09/15/08 14:35/eli-c
Radium 226	0.8	pCi/L				1 E903.0	09/17/08 17:18/eli-c
Radium 226 precision (±)	0.4	pCi/L				1 E903.0	09/17/08 17:18/eli-c
Radium 226 MDC	0.6	pCi/L				1 E903.0	09/17/08 17:18/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080301-004
 Client Sample ID: DewBurd GW681

Report Date: 11/14/08
 Collection Date: 08/19/08 19:08
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 09/29/08 13:22/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0 09/29/08 13:22/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	318000	pCi/L		100		1	D5072-92 08/25/08 17:46/eli-c
Radon 222 precision (±)	944	pCi/L				1	D5072-92 08/25/08 17:46/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1	E200.8 09/03/08 04:26/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8 09/03/08 04:26/eli-c
Barium	ND	mg/L		0.1		2	E200.7 09/02/08 20:03/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8 09/03/08 22:01/eli-c
Boron	ND	mg/L		0.1		2	E200.7 09/02/08 20:03/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 09/03/08 04:26/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 09/02/08 20:03/eli-c
Copper	ND	mg/L		0.01		2	E200.7 09/02/08 20:03/eli-c
Iron	0.06	mg/L		0.03		2	E200.7 09/02/08 20:03/eli-c
Lead	ND	mg/L		0.001		1	E200.8 09/03/08 04:26/eli-c
Manganese	0.09	mg/L		0.01		2	E200.7 09/02/08 20:03/eli-c
Mercury	ND	mg/L		0.001		1	E245.1 08/28/08 08:23/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7 09/02/08 20:03/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 09/02/08 20:03/eli-c
Selenium	ND	mg/L		0.001		1	E200.8 09/03/08 04:26/eli-c
Silver	ND	mg/L		0.005		1	E200.8 09/03/08 04:26/eli-c
Strontium	1.2	mg/L		0.1		2	E200.7 09/02/08 20:03/eli-c
Thallium	ND	mg/L		0.001		1	E200.8 09/03/08 04:26/eli-c
Uranium	0.0037	mg/L		0.0003		1	E200.8 09/03/08 04:26/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 09/02/08 20:03/eli-c
DATA QUALITY							
A/C Balance (± 5)	4.01	%				1	A1030 E 11/04/08 00:00/jmh
Anions	14.1	meq/L				1	A1030 E 11/04/08 00:00/jmh
Cations	15.3	meq/L				1	A1030 E 11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	942	mg/L				1	A1030 E 11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.980					1	A1030 E 11/04/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: R08080301-005
 Client Sample ID: DewBurd GW689

Report Date: 11/14/08
 Collection Date: 08/19/08 19:18
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	148	mg/L		5		1	A2320 B	08/21/08 11:54/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/21/08 11:54/mb
Bicarbonate as HCO3	180	mg/L		5		1	A2320 B	08/21/08 11:54/mb
Calcium	48.8	mg/L		0.5		2	E200.7	09/02/08 18:10/eli-c
Chloride	5	mg/L		1		1	E300.0	08/22/08 02:23/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	08/22/08 02:23/jmh
Magnesium	16.2	mg/L		0.5		2	E200.7	09/02/08 18:10/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	08/21/08 17:58/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	08/22/08 02:23/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	08/22/08 02:23/jmh
Potassium	7.9	mg/L		0.5		2	E200.7	09/02/08 18:10/eli-c
Silica	4.3	mg/L		0.5		2	E200.7	09/02/08 18:10/eli-c
Sodium	185	mg/L	D	2		2	E200.7	09/02/08 18:10/eli-c
Sulfate	399	mg/L	D	3		50	E300.0	08/22/08 02:06/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1270	umhos/cm		5.0		1	A2510 B	08/22/08 11:53/tb
Oxidation-Reduction Potential	170	mV				1	A2580 B	08/25/08 00:00/jmh
pH	7.96	s.u.		0.01		1	A4500-H B	08/22/08 14:00/tb
Sodium Adsorption Ratio (SAR)	5.9	unitless		0.10		1	Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	710	mg/L		5		1	A2540 C	08/25/08 15:55/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	09/02/08 18:10/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	09/03/08 04:33/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/02/08 18:10/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/02/08 18:10/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	09/02/08 18:10/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/02/08 18:10/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/03/08 04:33/eli-c
Iron	ND	mg/L		0.03		2	E200.7	09/02/08 18:10/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/03/08 04:33/eli-c
Manganese	0.04	mg/L		0.01		2	E200.7	09/02/08 18:10/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/03/08 04:33/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	09/02/08 18:10/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/02/08 18:10/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	09/01/08 11:43/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/03/08 04:33/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/03/08 04:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080301-005
 Client Sample ID: DewBurd GW689

Report Date: 11/14/08
 Collection Date: 08/19/08 19:18
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0034	mg/L		0.0003		1 E200.8	09/03/08 04:33/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	09/03/08 04:33/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	09/02/08 18:10/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	09/11/08 01:28/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	08/31/08 16:10/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	36.4	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Alpha precision (±)	4.0	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Alpha MDC	3.0	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Beta	13.3	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Beta precision (±)	2.1	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Beta MDC	3.2	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Lead 210	2.1	pCi/L	U			1 E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.4	pCi/L				1 E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1 E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.6	pCi/L	U	1.0		1 RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1 RMO-3008	09/03/08 19:15/eli-c
Radium 226	4.4	pCi/L				1 E903.0	09/15/08 18:05/eli-c
Radium 226 precision (±)	0.5	pCi/L				1 E903.0	09/15/08 18:05/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1 E907.0	09/20/08 12:26/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1 E907.0	09/20/08 12:26/eli-c
Gross Gamma	0.0	pCi/L	U	20		1 E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-9	pCi/L	U			1 E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.4	pCi/L				1 E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1 E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1 RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.19	pCi/L				1 RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.4	pCi/L	U			1 E903.0	09/17/08 17:18/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	09/17/08 17:18/eli-c
Radium 226 MDC	0.6	pCi/L				1 E903.0	09/17/08 17:18/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: R08080301-005
 Client Sample ID: DewBurd GW689

Report Date: 11/14/08
 Collection Date: 08/19/08 19:18
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	09/29/08 13:22/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	09/29/08 13:22/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	2520	pCi/L		100		1	D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	127	pCi/L				1	D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		10	E200.8	09/04/08 00:17/eli-c
Arsenic	ND	mg/L	D	0.004		1	E200.8	10/18/08 15:20/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/03/08 03:34/eli-c
Beryllium	ND	mg/L	D	0.003		10	E200.8	09/04/08 00:17/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/03/08 03:34/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	09/04/08 00:17/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/03/08 03:34/eli-c
Copper	ND	mg/L		0.01		2	E200.7	09/03/08 03:34/eli-c
Iron	0.73	mg/L		0.03		2	E200.7	09/03/08 03:34/eli-c
Lead	0.002	mg/L		0.001		10	E200.8	09/04/08 00:17/eli-c
Manganese	0.06	mg/L		0.01		2	E200.7	09/03/08 03:34/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	08/28/08 08:25/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	09/03/08 03:34/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/03/08 03:34/eli-c
Selenium	ND	mg/L	D	0.003		10	E200.8	09/04/08 00:17/eli-c
Silver	ND	mg/L	D	0.02		10	E200.8	09/04/08 00:17/eli-c
Strontium	0.9	mg/L		0.1		2	E200.7	09/03/08 03:34/eli-c
Thallium	ND	mg/L		0.001		10	E200.8	09/04/08 00:17/eli-c
Uranium	0.0034	mg/L	D	0.0005		10	E200.8	09/04/08 00:17/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/03/08 03:34/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.54	%				1	A1030 E	11/04/08 00:00/jmh
Anions	11.4	meq/L				1	A1030 E	11/04/08 00:00/jmh
Cations	12.0	meq/L				1	A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	764	mg/L				1	A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.930					1	A1030 E	11/04/08 00:00/jmh

Report: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 15 of 15
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc

Project: Edgemont

Report Date: 11/14/08

Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080820A-ALK-SEL-W		
Sample ID: LCS1_080820A Alkalinity, Total as CaCO3	Laboratory Control Sample 960	mg/L	5.0	96	90	110			Run: PH_COND1-R_080821A 08/20/08 11:41
Sample ID: MBLK1_080820A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080821A 08/20/08 11:52
Sample ID: R08080296-001AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 274	mg/L	5.0	108	80	120			Run: PH_COND1-R_080821A 08/21/08 11:27
Sample ID: R08080296-001AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 264	mg/L	5.0	98	80	120	3.7	10	Run: PH_COND1-R_080821A 08/21/08 11:31
Method: A2510 B							Batch: 080822_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080822 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			Run: BAL-7-R_080822A 08/22/08 11:38
Sample ID: LCS1-1_080822 Conductivity @ 25 C	Laboratory Control Sample 162	umhos/cm	5.0	108	90	110			Run: BAL-7-R_080822A 08/22/08 11:40
Sample ID: LCS2-1_080822 Conductivity @ 25 C	Laboratory Control Sample 5010	umhos/cm	5.0	100	90	110			Run: BAL-7-R_080822A 08/22/08 11:41
Sample ID: MBLK-1_080822 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: BAL-7-R_080822A 08/22/08 11:42
Method: A2540 C							Batch: 080825A-SLDS-TDS-W		
Sample ID: LCS1_080825A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 210	mg/L	5.0	103	90	110			Run: BAL-4-R_080825B 08/25/08 15:44
Sample ID: MBLK1_080825A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						Run: BAL-4-R_080825B 08/25/08 15:46
Sample ID: R08080295-010AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 420	mg/L	5.0	106	80	120			Run: BAL-4-R_080825B 08/25/08 15:52
Sample ID: R08080295-010AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 410	mg/L	5.0	104	80	120	1	10	Run: BAL-4-R_080825B 08/25/08 15:52
Sample ID: R08080322-004AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 590	mg/L	5.0	83	80	120			Run: BAL-4-R_080825B 08/25/08 15:57
Sample ID: R08080322-004AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 590	mg/L	5.0	82	80	120	0.3	10	Run: BAL-4-R_080825B 08/25/08 15:58

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080825-ORP-ISE-WV		
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND1-R_080825A		08/25/08 00:00		
Oxidation-Reduction Potential	470	mV		98	95	105			
Sample ID: R08080301-005F	Sample Duplicate				Run: PH_COND1-R_080825A		08/25/08 00:00		
Oxidation-Reduction Potential	170	mV					3.4	10	
Method: A3114 B							Batch: C_SE3114-080901A		
Sample ID: MBLK	Method Blank				Run: SUB-C106784		09/01/08 11:25		
Selenium	0.0008	mg/L	6E-05						
Sample ID: C08081048-003AMS	Sample Matrix Spike				Run: SUB-C106784		09/01/08 11:46		
Selenium	0.071	mg/L	0.0010	81	85	115			S
Sample ID: C08081048-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C106784		09/01/08 11:48		
Selenium	0.073	mg/L	0.0010	86	85	115	3.5	15	
Sample ID: 288-92-2	Laboratory Control Sample				Run: SUB-C106784		09/01/08 11:50		
Selenium	0.050	mg/L	0.0010	99	90	110			
Sample ID: R08080332-009E	Sample Matrix Spike				Run: SUB-C106784		09/01/08 12:17		
Selenium	0.042	mg/L	0.0010	84	85	115			S
Sample ID: R08080332-009E	Sample Matrix Spike Duplicate				Run: SUB-C106784		09/01/08 12:19		
Selenium	0.044	mg/L	0.0010	88	85	115	4.5	15	
Method: A3114 B							Batch: C_SEIV3114-080831A		
Sample ID: MBLK	Method Blank				Run: SUB-C106776		08/31/08 15:53		
Selenium-IV	0.0005	mg/L	6E-05						
Sample ID: C08081048-003AMS	Sample Matrix Spike				Run: SUB-C106776		08/31/08 16:12		
Selenium-IV	0.052	mg/L	0.0010	87	85	115			
Sample ID: C08081048-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C106776		08/31/08 16:20		
Selenium-IV	0.056	mg/L	0.0010	96	85	115	7.7	10	
Sample ID: 288-92-2	Laboratory Control Sample				Run: SUB-C106776		08/31/08 16:22		
Selenium-IV	0.050	mg/L	0.0010	100	90	110			
Sample ID: R08080332-009E	Sample Matrix Spike				Run: SUB-C106776		08/31/08 16:49		
Selenium-IV	0.045	mg/L	0.0010	89	85	115			
Sample ID: R08080332-009E	Sample Matrix Spike Duplicate				Run: SUB-C106776		08/31/08 16:52		
Selenium-IV	0.046	mg/L	0.0010	92	85	115	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: 11/14/08
 Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 080822_1_PH-W		
Sample ID: LCS_pH-1_080822	Laboratory Control Sample				Run: BAL-7-R_080822B			08/22/08 13:46	
pH	6.87	s.u.	0.010	100	98.55	101.45			
Method: A4500-NH3 G							Batch: A2008-08-21_2_NH3_01		
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_080821A			08/21/08 14:35	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_080821A			08/21/08 14:36	
Nitrogen, Ammonia as N	0.26	mg/L	0.10	104	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_080821A			08/21/08 14:37	
Nitrogen, Ammonia as N	0.25	mg/L	0.10	101	90	110			
Sample ID: R08080295-008CMS	Sample Matrix Spike				Run: TECHAA2-R_080821A			08/21/08 17:41	
Nitrogen, Ammonia as N	0.22	mg/L	0.10	87	80	120			
Sample ID: R08080295-008CMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080821A			08/21/08 17:43	
Nitrogen, Ammonia as N	0.20	mg/L	0.10	81	80	120	7.2	10	
Sample ID: R08080301-004BMS	Sample Matrix Spike				Run: TECHAA2-R_080821A			08/21/08 17:55	
Nitrogen, Ammonia as N	0.29	mg/L	0.10	83	80	120			
Sample ID: R08080301-004BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080821A			08/21/08 17:57	
Nitrogen, Ammonia as N	0.31	mg/L	0.10	90	80	120	5.7	10	
Method: D5072-92							Batch: C_R106600		
Sample ID: R08080301-005G	Sample Duplicate				Run: SUB-C106600			08/25/08 17:46	
Radon 222	2410	pCi/L	100				4.2	30	
Sample ID: MB-R106600	Method Blank				Run: SUB-C106600			08/25/08 17:46	
Radon 222	40	pCi/L							U
Sample ID: LCS-R106600	Laboratory Control Sample				Run: SUB-C106600			08/25/08 17:46	
Radon 222	300	pCi/L	100	85	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: 11/14/08
 Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19595		
Sample ID: MB-19595	Method Blank		Run: SUB-C106856			09/03/08 02:17			
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						
Strontium	ND	mg/L	0.0004						
Zinc	ND	mg/L	0.001						
Sample ID: LCS3-19595	Laboratory Control Sample		Run: SUB-C106856			09/03/08 02:21			
Barium	0.509	mg/L	0.10	102	85	115			
Boron	0.520	mg/L	0.10	104	85	115			
Chromium	0.520	mg/L	0.050	104	85	115			
Copper	0.518	mg/L	0.010	104	85	115			
Iron	2.75	mg/L	0.030	110	85	115			
Manganese	2.58	mg/L	0.010	103	85	115			
Molybdenum	0.508	mg/L	0.10	102	85	115			
Nickel	0.523	mg/L	0.050	105	85	115			
Strontium	0.487	mg/L	0.10	97	85	115			
Zinc	0.522	mg/L	0.010	104	85	115			
Sample ID: C08080990-003CMS3	Sample Matrix Spike		Run: SUB-C106856			09/03/08 02:41			
Barium	0.678	mg/L	0.10	100	70	130			
Boron	0.608	mg/L	0.10	105	70	130			
Chromium	0.524	mg/L	0.050	105	70	130			
Copper	0.522	mg/L	0.010	104	70	130			
Iron	4.25	mg/L	0.030	83	70	130			
Manganese	2.61	mg/L	0.010	102	70	130			
Molybdenum	0.520	mg/L	0.10	104	70	130			
Nickel	0.520	mg/L	0.050	104	70	130			
Strontium	0.968	mg/L	0.10	100	70	130			
Zinc	0.531	mg/L	0.010	102	70	130			
Sample ID: C08080990-003CMSD3	Sample Matrix Spike Duplicate		Run: SUB-C106856			09/03/08 02:45			
Barium	0.702	mg/L	0.10	105	70	130	3.5	20	
Boron	0.625	mg/L	0.10	108	70	130	2.8	20	
Chromium	0.531	mg/L	0.050	106	70	130	1.3	20	
Copper	0.530	mg/L	0.010	106	70	130	1.5	20	
Iron	4.47	mg/L	0.030	92	70	130	5.2	20	
Manganese	2.65	mg/L	0.010	104	70	130	1.6	20	
Molybdenum	0.532	mg/L	0.10	106	70	130	2.3	20	
Nickel	0.523	mg/L	0.050	105	70	130	0.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/14/08

Project: Edgemont

Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_19595
Sample ID: C08080990-003CMSD3	Sample Matrix Spike Duplicate					Run: SUB-C106856			09/03/08 02:45
Strontium	0.962	mg/L	0.10	98	70	130	0.6	20	
Zinc	0.546	mg/L	0.010	105	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: 11/14/08
Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R106856		
Sample ID: MB-080902A	Method Blank		Run: SUB-C106856				09/02/08 14:38		
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.008						
Cadmium	ND	mg/L	0.0008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Copper	ND	mg/L	0.005						
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						
Strontium	ND	mg/L	0.0002						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080902A	Laboratory Fortified Blank		Run: SUB-C106856				09/02/08 14:42		
Silica	0.38	mg/L	0.10	96	85	125			
Aluminum	1.00	mg/L	0.10	100	85	125			
Barium	1.0	mg/L	0.10	101	85	125			
Boron	0.96	mg/L	0.10	96	85	125			
Cadmium	1.0	mg/L	0.010	101	85	125			
Calcium	54	mg/L	0.50	107	85	125			
Chromium	1.0	mg/L	0.050	103	85	125			
Copper	1.0	mg/L	0.010	103	85	125			
Iron	1.1	mg/L	0.030	106	85	125			
Magnesium	53	mg/L	0.50	107	85	125			
Manganese	1.0	mg/L	0.010	102	85	125			
Molybdenum	1.00	mg/L	0.10	100	85	125			
Nickel	1.0	mg/L	0.050	102	85	125			
Potassium	45	mg/L	0.50	91	85	125			
Sodium	50	mg/L	0.77	100	85	125			
Strontium	1.0	mg/L	0.10	102	85	125			
Zinc	1.0	mg/L	0.010	103	85	125			
Sample ID: C08081029-002CMS2	Sample Matrix Spike		Run: SUB-C106856				09/02/08 17:49		
Aluminum	2.06	mg/L	0.10	102	70	130			
Barium	2.10	mg/L	0.10	104	70	130			
Boron	2.27	mg/L	0.10	105	70	130			
Cadmium	2.09	mg/L	0.010	104	70	130			
Chromium	2.11	mg/L	0.050	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: 11/14/08
 Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R106856		
Sample ID: C08081029-002CMS2	Sample Matrix Spike			Run: SUB-C106856			09/02/08 17:49		
Copper	2.10	mg/L	0.010	105	70	130			
Iron	24.2	mg/L	0.030		70	130			A
Manganese	3.64	mg/L	0.010	101	70	130			
Molybdenum	2.05	mg/L	0.10	102	70	130			
Nickel	2.07	mg/L	0.050	104	70	130			
Strontium	9.22	mg/L	0.10	98	70	130			
Zinc	2.11	mg/L	0.010	105	70	130			
Calcium	580	mg/L	1.0		70	130			A
Magnesium	252	mg/L	1.0	105	70	130			
Potassium	114	mg/L	1.0	93	70	130			
Silica	2.77	mg/L	0.10	67	70	130			S
Sodium	278	mg/L	1.5	106	70	130			
Sample ID: C08081029-002CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C106856			09/02/08 17:53		
Aluminum	2.05	mg/L	0.10	101	70	130	0.7	20	
Barium	2.09	mg/L	0.10	104	70	130	0.4	20	
Boron	2.27	mg/L	0.10	105	70	130	0	20	
Cadmium	2.02	mg/L	0.010	101	70	130	3.1	20	
Chromium	2.10	mg/L	0.050	105	70	130	0.7	20	
Copper	2.08	mg/L	0.010	104	70	130	0.9	20	
Iron	23.6	mg/L	0.030		70	130	2.3	20	A
Manganese	3.57	mg/L	0.010	98	70	130	1.8	20	
Molybdenum	2.07	mg/L	0.10	103	70	130	0.8	20	
Nickel	2.05	mg/L	0.050	102	70	130	1.2	20	
Strontium	9.00	mg/L	0.10	87	70	130	2.4	20	
Zinc	2.11	mg/L	0.010	105	70	130	0	20	
Calcium	569	mg/L	1.0		70	130	2	20	A
Magnesium	247	mg/L	1.0	101	70	130	1.7	20	
Potassium	113	mg/L	1.0	91	70	130	1.1	20	
Silica	2.80	mg/L	0.10	71	70	130	1	20	
Sodium	278	mg/L	1.5	106	70	130	0	20	
Method: E200.7_8							Batch: C_19720		
Sample ID: MB-19720	Method Blank			Run: SUB-C107379			09/10/08 23:44		
Uranium	2E-07	mg/L							
Sample ID: LCS1-19720	Laboratory Control Sample			Run: SUB-C107379			09/10/08 23:48		
Uranium	5.46E-05	mg/L	0.00030	103	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.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19595		
Sample ID: MB-19595	Method Blank				Run: SUB-C106973		09/03/08 22:42		
Antimony	ND	mg/L	0.0003						
Arsenic	0.007	mg/L							
Beryllium	ND	mg/L	0.0003						
Cadmium	ND	mg/L	4E-05						
Lead	ND	mg/L	5E-05						
Selenium	ND	mg/L	0.0003						
Silver	ND	mg/L	0.002						
Thallium	ND	mg/L	0.0001						
Uranium	ND	mg/L	5E-05						
Sample ID: LCS3-19595	Laboratory Control Sample				Run: SUB-C106973		09/03/08 22:48		
Antimony	0.543	mg/L	0.050	109	85	115			
Arsenic	0.535	mg/L	0.0010	106	85	115			
Beryllium	0.261	mg/L	0.010	104	85	115			
Cadmium	0.273	mg/L	0.010	109	85	115			
Lead	0.509	mg/L	0.050	102	85	115			
Selenium	0.528	mg/L	0.0032	106	85	115			
Silver	0.0495	mg/L	0.016	99	85	115			
Thallium	0.502	mg/L	0.10	100	85	115			
Uranium	0.498	mg/L	0.00048	100	85	115			
Sample ID: C08080990-003CMS3	Sample Matrix Spike				Run: SUB-C106973		09/04/08 00:44		
Antimony	0.521	mg/L	0.050	104	70	130			
Arsenic	0.519	mg/L	0.0010	101	70	130			
Beryllium	0.251	mg/L	0.010	100	70	130			
Cadmium	0.262	mg/L	0.010	105	70	130			
Lead	0.493	mg/L	0.050	98	70	130			
Selenium	0.506	mg/L	0.0032	101	70	130			
Silver	0.0475	mg/L	0.016	95	70	130			
Thallium	0.483	mg/L	0.10	97	70	130			
Uranium	0.486	mg/L	0.00048	96	70	130			
Sample ID: C08080990-003CMSD3	Sample Matrix Spike Duplicate				Run: SUB-C106973		09/04/08 00:51		
Antimony	0.516	mg/L	0.050	103	70	130	0.8	20	
Arsenic	0.552	mg/L	0.0010	108	70	130	6.1	20	
Beryllium	0.251	mg/L	0.010	101	70	130	0.3	20	
Cadmium	0.260	mg/L	0.010	104	70	130	0.9	20	
Lead	0.485	mg/L	0.050	96	70	130	1.7	20	
Selenium	0.553	mg/L	0.0032	111	70	130	8.9	20	
Silver	0.0490	mg/L	0.016	98	70	130	3.1	20	
Thallium	0.485	mg/L	0.10	97	70	130	0.2	20	
Uranium	0.479	mg/L	0.00048	95	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/14/08
 Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19595		
Sample ID: MB-19595	Method Blank				Run: SUB-C109482		10/18/08 14:16		
Arsenic	0.003	mg/L	5E-05						
Lead	ND	mg/L	5E-05						
Selenium	0.0007	mg/L	0.0002						
Uranium	ND	mg/L	3E-05						
Method: E200.8							Batch: C_19720		
Sample ID: C08081244-005CMS4	Post Digestion Spike				Run: SUB-C107379		09/11/08 02:12		
Uranium	0.0135	mg/L	0.00030	101	70	130			
Sample ID: C08081244-005CMSD4	Post Digestion Spike Duplicate				Run: SUB-C107379		09/11/08 02:16		
Uranium	0.0135	mg/L	0.00030	101	70	130	0.2	20	
Method: E200.8							Batch: C_R106481		
Sample ID: LRB	Method Blank				Run: SUB-C106481		08/25/08 13:26		
Arsenic	ND	mg/L	4E-05						
Zinc	0.0001	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C106481		08/25/08 17:18		
Arsenic	0.0504	mg/L	0.0010	101	85	115			
Zinc	0.0513	mg/L	0.0010	102	85	115			
Sample ID: C08080873-001BMS4	Post Digestion Spike				Run: SUB-C106481		08/26/08 07:31		
Arsenic	0.0421	mg/L	0.0010	84	70	130			
Zinc	0.0581	mg/L	0.010	81	70	130			
Sample ID: C08080873-001BMSD4	Post Digestion Spike Duplicate				Run: SUB-C106481		08/26/08 07:38		
Arsenic	0.0458	mg/L	0.0010	92	70	130	8.4	20	
Zinc	0.0595	mg/L	0.010	84	70	130	2.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R106879		
Sample ID: LRB	Method Blank			Run: SUB-C106879			09/02/08 13:32		
Antimony	ND	mg/L	7E-05						
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						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	3E-05						
Thallium	ND	mg/L	1E-05						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	3E-05	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C106879			09/02/08 13:39		
Antimony	0.0519	mg/L	0.0010	104	85	115			
Arsenic	0.0504	mg/L	0.0010	101	85	115			
Cadmium	0.0514	mg/L	0.0010	103	85	115			
Copper	0.0526	mg/L	0.0010	105	85	115			
Lead	0.0512	mg/L	0.0010	102	85	115			
Mercury	0.00508	mg/L	0.0010	102	85	115			
Selenium	0.0507	mg/L	0.0010	101	85	115			
Silver	0.0206	mg/L	0.0010	103	85	115			
Thallium	0.0510	mg/L	0.0010	102	85	115			
Thorium 232	0.0497	mg/L	0.0010	99	85	115			
Uranium	0.0498	mg/L	0.00030	100	85	115			
Vanadium	0.0504	mg/L	0.0010	101	85	115			
Sample ID: C08080819-001BMS4	Post Digestion Spike			Run: SUB-C106879			09/03/08 01:57		
Antimony	0.0495	mg/L	0.050	99	70	130			
Arsenic	0.0477	mg/L	0.0010	94	70	130			
Cadmium	0.0482	mg/L	0.010	96	70	130			
Copper	0.0487	mg/L	0.010	94	70	130			
Lead	0.0478	mg/L	0.050	95	70	130			
Mercury	0.00482	mg/L	0.0010	96	70	130			
Selenium	0.0480	mg/L	0.0010	96	70	130			
Silver	0.0147	mg/L	0.010	73	70	130			
Thallium	0.0474	mg/L	0.10	95	70	130			
Thorium 232	0.0486	mg/L	0.0010	97	70	130			
Uranium	0.0492	mg/L	0.00030	98	70	130			
Vanadium	0.0469	mg/L	0.10	94	70	130			
Sample ID: C08080819-001BMSD4	Post Digestion Spike Duplicate			Run: SUB-C106879			09/03/08 02:31		
Antimony	0.0534	mg/L	0.050	107	70	130	7.6	20	
Arsenic	0.0514	mg/L	0.0010	102	70	130	7.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/14/08
 Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R106879		
Sample ID: C08080819-001BMSD4	Post Digestion Spike Duplicate			Run: SUB-C106879			09/03/08 02:31		
Cadmium	0.0513	mg/L	0.010	103	70	130	6.2	20	
Copper	0.0529	mg/L	0.010	102	70	130	8.4	20	
Lead	0.0527	mg/L	0.050	105	70	130	9.7	20	
Mercury	0.00533	mg/L	0.0010	107	70	130	10	20	
Selenium	0.0506	mg/L	0.0010	101	70	130	5.3	20	
Silver	0.0149	mg/L	0.010	74	70	130	1.5	20	
Thallium	0.0521	mg/L	0.10	104	70	130	0	20	
Thorium 232	0.0530	mg/L	0.0010	106	70	130	8.5	20	
Uranium	0.0536	mg/L	0.00030	107	70	130	8.5	20	
Vanadium	0.0507	mg/L	0.10	101	70	130	0	20	
Sample ID: C08080873-001BMS4	Post Digestion Spike			Run: SUB-C106879			09/03/08 02:45		
Antimony	0.0525	mg/L	0.050	105	70	130			
Arsenic	0.0492	mg/L	0.0010	98	70	130			
Cadmium	0.0488	mg/L	0.010	98	70	130			
Copper	0.0594	mg/L	0.010	98	70	130			
Lead	0.0502	mg/L	0.050	100	70	130			
Mercury	0.00504	mg/L	0.0010	101	70	130			
Selenium	0.402	mg/L	0.0010		70	130			A
Silver	0.0114	mg/L	0.010	57	70	130			S
Thallium	0.0495	mg/L	0.10	99	70	130			
Thorium 232	0.0525	mg/L	0.0010	105	70	130			
Uranium	0.260	mg/L	0.00030		70	130			A
Vanadium	0.0480	mg/L	0.10	95	70	130			
Sample ID: C08080873-001BMSD4	Post Digestion Spike Duplicate			Run: SUB-C106879			09/03/08 02:52		
Antimony	0.0509	mg/L	0.050	102	70	130	3.2	20	
Arsenic	0.0476	mg/L	0.0010	95	70	130	3.5	20	
Cadmium	0.0473	mg/L	0.010	94	70	130	3.3	20	
Copper	0.0576	mg/L	0.010	95	70	130	3	20	
Lead	0.0494	mg/L	0.050	99	70	130	0	20	
Mercury	0.00502	mg/L	0.0010	100	70	130	0.4	20	
Selenium	0.401	mg/L	0.0010		70	130	0.3	20	A
Silver	0.0117	mg/L	0.010	59	70	130	3.3	20	S
Thallium	0.0486	mg/L	0.10	97	70	130	0	20	
Thorium 232	0.0521	mg/L	0.0010	104	70	130	0.9	20	
Uranium	0.257	mg/L	0.00030		70	130	1.1	20	A
Vanadium	0.0474	mg/L	0.10	94	70	130	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

Report Date: 11/14/08

Project: Edgemont

Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R106973		
Sample ID: LRB	Method Blank								
Beryllium	ND	mg/L	4E-06						Run: SUB-C106973 09/03/08 13:38
Sample ID: LFB	Laboratory Fortified Blank								
Beryllium	0.0539	mg/L	0.0010	108	85	115			Run: SUB-C106973 09/03/08 13:45
Sample ID: R08080332-009D	Post Digestion Spike								
Beryllium	0.0565	mg/L	0.010	113	70	130			Run: SUB-C106973 09/04/08 05:22
Sample ID: R08080332-009D	Post Digestion Spike Duplicate								
Beryllium	0.0582	mg/L	0.010	116	70	130	2.9	20	Run: SUB-C106973 09/04/08 05:57
Method: E245.1							Batch: B_34292		
Sample ID: MB-34292	Method Blank								
Mercury	ND	mg/L	5E-05						Run: SUB-B116583 08/28/08 07:30
Sample ID: LFB-34292	Laboratory Fortified Blank								
Mercury	0.0019	mg/L	0.0010	94	85	115			Run: SUB-B116583 08/28/08 07:35
Sample ID: B08082231-001DMS	Sample Matrix Spike								
Mercury	0.0020	mg/L	0.0010	100	70	130			Run: SUB-B116583 08/28/08 08:13
Sample ID: B08082231-001DMSD	Sample Matrix Spike Duplicate								
Mercury	0.0023	mg/L	0.0010	115	70	130	14	30	Run: SUB-B116583 08/28/08 08:16
Method: E245.1							Analytical Run: SUB-B116583		
Sample ID: QCS	Initial Calibration Verification Standard								
Mercury	0.0020	mg/L	0.0010	98	90	110			08/28/08 07:20

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R36973		
Sample ID: LFB0808213922-3	Laboratory Fortified Blank			Run: DIONEX_080821A			08/21/08 20:22		
Chloride	4.94	mg/L	0.50	99	90	110			
Fluoride	2.08	mg/L	0.10	104	90	110			
Nitrogen, Nitrate as N	2.46	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N	2.52	mg/L	0.10	101	90	110			
Sulfate	14.6	mg/L	1.0	97	90	110			
Sample ID: LFB0808213922-4	Laboratory Fortified Blank			Run: DIONEX_080821A			08/21/08 20:38		
Chloride	4.75	mg/L	0.50	95	90	110			
Fluoride	2.00	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	90	110			
Nitrogen, Nitrite as N	2.41	mg/L	0.10	96	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: R08080296-001AMS	Sample Matrix Spike			Run: DIONEX_080821A			08/21/08 21:11		
Chloride	11.5	mg/L	0.50	89	80	120			
Fluoride	2.23	mg/L	0.10	95	80	120			
Nitrogen, Nitrate as N	2.53	mg/L	0.10	95	80	120			
Nitrogen, Nitrite as N	2.51	mg/L	0.10	100	80	120			
Sulfate	63.4	mg/L	1.0	74	80	120			S
Sample ID: R08080296-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080821A			08/21/08 21:27		
Chloride	11.2	mg/L	0.50	85	80	120	1.9	10	
Fluoride	2.14	mg/L	0.10	91	80	120	4.1	10	
Nitrogen, Nitrate as N	2.42	mg/L	0.10	91	80	120	4.4	10	
Nitrogen, Nitrite as N	2.41	mg/L	0.10	96	80	120	4.1	10	
Sulfate	62.8	mg/L	1.0	70	80	120	0.9	10	S
Sample ID: R08080301-003AMS	Sample Matrix Spike			Run: DIONEX_080821A			08/22/08 00:44		
Chloride	257	mg/L	5.4	92	80	120			
Fluoride	105	mg/L	0.56	99	80	120			
Nitrogen, Nitrate as N	122	mg/L	1.3	98	80	120			
Nitrogen, Nitrite as N	126	mg/L	2.9	101	80	120			
Sulfate	2070	mg/L	3.4	104	80	120			
Sample ID: R08080301-003AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080821A			08/22/08 01:01		
Chloride	251	mg/L	5.4	90	80	120	2.4	10	
Fluoride	102	mg/L	0.56	97	80	120	2.7	10	
Nitrogen, Nitrate as N	119	mg/L	1.3	95	80	120	2.6	10	
Nitrogen, Nitrite as N	123	mg/L	2.9	98	80	120	2.6	10	
Sulfate	2010	mg/L	3.4	97	80	120	2.6	10	
Sample ID: R08080323-001AMS	Sample Matrix Spike			Run: DIONEX_080821A			08/22/08 03:45		
Chloride	10.3	mg/L	0.50	89	80	120			
Fluoride	2.20	mg/L	0.10	94	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: 11/14/08
 Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R36973		
Sample ID: R08080323-001AMS	Sample Matrix Spike				Run: DIONEX_080821A		08/22/08 03:45		
Nitrogen, Nitrate as N	2.44	mg/L	0.10	92	80	120			
Nitrogen, Nitrite as N	2.46	mg/L	0.10	98	80	120			
Sulfate	63.8	mg/L	1.0	74	80	120			S
Sample ID: R08080323-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080821A		08/22/08 04:01		
Chloride	10.3	mg/L	0.50	89	80	120	0.1	10	
Fluoride	2.20	mg/L	0.10	94	80	120	0	10	
Nitrogen, Nitrate as N	2.44	mg/L	0.10	92	80	120	0	10	
Nitrogen, Nitrite as N	2.46	mg/L	0.10	98	80	120	0	10	
Sulfate	63.6	mg/L	1.0	72	80	120	0.4	10	S
Method: E900.0							Batch: C_GrAB-0526		
Sample ID: MB-GrAB-0526	Method Blank				Run: SUB-C108200		09/25/08 02:03		
Gross Alpha	-0.4	pCi/L							U
Gross Beta	-1	pCi/L							U
Sample ID: UNAT-GrAB-0526	Laboratory Control Sample				Run: SUB-C108200		09/25/08 02:03		
Gross Alpha	140	pCi/L	102	70	130				
Sample ID: R08080332-009H	Sample Matrix Spike				Run: SUB-C108200		09/25/08 02:03		
Gross Alpha	120	pCi/L	90	70	130				
Sample ID: R08080332-009H	Sample Matrix Spike Duplicate				Run: SUB-C108200		09/25/08 02:03		
Gross Alpha	150	pCi/L	110	70	130	20	15.7		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: Cs137-GrAB-0526	Laboratory Control Sample				Run: SUB-C108200		09/25/08 02:03		
Gross Beta	93	pCi/L	101	70	130				
Sample ID: R08080332-009H	Sample Matrix Spike				Run: SUB-C108200		09/25/08 14:09		
Gross Beta	73	pCi/L	82	70	130				
Sample ID: R08080332-009H	Sample Matrix Spike Duplicate				Run: SUB-C108200		09/25/08 14:09		
Gross Beta	97	pCi/L	107	70	130	28	16.3		R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: R08080301-002H	Sample Duplicate				Run: SUB-C108200		09/25/08 14:09		
Gross Alpha	71	pCi/L					10	40.3	
Gross Beta	16	pCi/L					59	69.5	

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: 11/14/08
Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R106893		
Sample ID: R08080332-007H	Sample Duplicate								
Gross Gamma	ND	pCi/L					0	30	U
Run: SUB-C106893									08/29/08 12:32
Sample ID: R08080332-009H	Sample Duplicate								
Gross Gamma	1000	pCi/L					7.9	30	
Run: SUB-C106893									08/29/08 12:32
Sample ID: MB-R106893	Method Blank								
Gross Gamma	ND	pCi/L							U
Run: SUB-C106893									08/29/08 12:32
Sample ID: LCS-R106893	Laboratory Control Sample								
Cesium 137	39000	pCi/L	20	95	70	130			
Cobalt 60	49000	pCi/L	20	99	70	130			
Run: SUB-C106893									08/29/08 12:32
Method: E903.0							Batch: C_19720		
Sample ID: C08080968-001FMS	Sample Matrix Spike								
Radium 226	140	pCi/L		96	70	130			
Run: SUB-C107779									09/17/08 15:43
Sample ID: C08080968-001FMSD	Sample Matrix Spike Duplicate								
Radium 226	150	pCi/L		98	70	130	6.9	25.2	
Run: SUB-C107779									09/17/08 15:43
Sample ID: LCS-19720	Laboratory Control Sample								
Radium 226	74	pCi/L		96	70	130			
Run: SUB-C107779									09/17/08 18:56
Sample ID: MB-19720	Method Blank								
Radium 226	-0.4	pCi/L							U
Run: SUB-C107779									09/17/08 18:56
Method: E903.0							Batch: C_RA226-3058		
Sample ID: C08080934-001EMS	Sample Matrix Spike								
Radium 226	14	pCi/L		91	70	130			
Run: SUB-C107589									09/15/08 14:53
Sample ID: C08080934-001EMSD	Sample Matrix Spike Duplicate								
Radium 226	14	pCi/L		92	70	130	0.5	24.6	
Run: SUB-C107589									09/15/08 14:53
Sample ID: MB-RA226-3058	Method Blank								
Radium 226	-0.2	pCi/L							U
Run: SUB-C107589									09/15/08 18:05
Sample ID: LCS-RA226-3058	Laboratory Control Sample								
Radium 226	6.8	pCi/L		88	70	130			
Run: SUB-C107589									09/15/08 18:05

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: 11/14/08
Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R108747		
Sample ID: R08080332-0011 Thorium 230	Sample Matrix Spike 21.4	pCi/L	0.20	95	70	130			09/28/08 13:33
									Run: SUB-C108747
Sample ID: R08080332-0011 Thorium 230	Sample Matrix Spike Duplicate 25.8	pCi/L	0.20	111	70	130	19	40.7	09/28/08 13:33
									Run: SUB-C108747
Sample ID: LCS-19720 Thorium 230	Laboratory Control Sample 47.0	pCi/L	0.20	102	70	130			09/29/08 13:22
									Run: SUB-C108747
Sample ID: MB-19720 Thorium 230	Method Blank 0.6	pCi/L							09/29/08 13:22 U
									Run: SUB-C108747
Method: E907.0							Batch: C_RA-TH-ISO-0633		
Sample ID: LCS-RA-TH-ISO-0633 Thorium 230	Laboratory Control Sample 6.17	pCi/L	0.20	102	70	130			09/19/08 13:54
									Run: SUB-C108242
Sample ID: R08080301-004H Thorium 230	Sample Matrix Spike 10.5	pCi/L	0.20	86	70	130			09/20/08 12:26
									Run: SUB-C108242
Sample ID: R08080301-004H Thorium 230	Sample Matrix Spike Duplicate 10.9	pCi/L	0.20	91	70	130	4.1	40.3	09/20/08 12:26
									Run: SUB-C108242
Sample ID: MB-RA-TH-ISO-0633 Thorium 230	Method Blank -0.02	pCi/L							09/21/08 12:56 U
									Run: SUB-C108242
Method: E909.0M							Batch: C_19720		
Sample ID: R08080332-009I Lead 210	Sample Matrix Spike 240	pCi/L		89	70	130			09/12/08 10:37
									Run: SUB-C108784
Sample ID: R08080332-009I Lead 210	Sample Matrix Spike Duplicate 300	pCi/L		111	70	130	23	30	09/12/08 10:37
									Run: SUB-C108784
Sample ID: MB-R108784 Lead 210	Method Blank -6	pCi/L							09/12/08 10:37 U
									Run: SUB-C108784
Sample ID: LCS-R108784 Lead 210	Laboratory Control Sample 100	pCi/L		92	70	130			09/12/08 10:37
									Run: SUB-C108784

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: 11/14/08
 Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R107511		
Sample ID: R08080332-005H Lead 210	Sample Matrix Spike 410	pCi/L		70	70	130			09/04/08 07:39
Sample ID: R08080332-005H Lead 210	Sample Matrix Spike Duplicate 450	pCi/L		77	70	130	9.5	30	09/04/08 07:39
Sample ID: MB-R107511 Lead 210	Method Blank -3	pCi/L							09/04/08 07:39 U
Sample ID: LCS-R107511 Lead 210	Laboratory Control Sample 86	pCi/L		76	70	130			09/04/08 07:39
Method: RMO-3008							Batch: C_19720		
Sample ID: C08081029-005IMS Polonium 210	Sample Matrix Spike 36	pCi/L	1.0	83	70	130			09/15/08 14:35
Sample ID: C08081029-005IMSD Polonium 210	Sample Matrix Spike Duplicate 48	pCi/L	1.0	111	70	130	29	30	09/15/08 14:35
Sample ID: LCS-R108077 Polonium 210	Laboratory Control Sample 81	pCi/L	1.0	95	70	130			09/15/08 14:35
Sample ID: MB-R108077 Polonium 210	Method Blank 0.9	pCi/L							09/15/08 14:35 U
Method: RMO-3008							Batch: C_R107620		
Sample ID: C08081029-005HMS Polonium 210	Sample Matrix Spike 79	pCi/L	1.0	93	70	130			09/03/08 19:15
Sample ID: C08081029-005HMSD Polonium 210	Sample Matrix Spike Duplicate 82	pCi/L	1.0	97	70	130	3.7	30	09/03/08 19:15
Sample ID: LCS-R107620 Polonium 210	Laboratory Control Sample 44	pCi/L	1.0	102	70	130			09/03/08 19:15
Sample ID: MB-R107620 Polonium 210	Method Blank ND	pCi/L							09/03/08 19:15 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

PLEASE PRINT - Provide as much information as possible.

Company Name: Brown RESPEC		Project Name, PWS, Permit, Etc. Powerful Dewey Burdock		Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: Lesler		Contact Name: Cory Foreman		Email: Eric.Krahe	Sampler: (Please Print) Eric Krahe
Invoice Address:		Invoice Contact & Phone:		Purchase Order:	Quote/Bottle Order:
Special Report/Formats - ELI must be notified prior to sample submittal for the following:					
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	MATRIX	
1 Dew Burd GW 3026		8/19/2008	16:25	W	
2 Dew Burd GW 3026		8/19/2008	16:35	W	
3 Dew Burd GW 698		8/19/2008	17:35	W	
4 Dew Burd GW 681		8/19/2008	19:08	W	
5 Dew Burd GW 689		8/19/2008	19:18	W	
6					
7					
8					
9					
10					
Custody Record Must be Signed		Relinquished by (print): Eric Krahe	Date/Time: 8/19/08 21:50	Signature: <i>[Signature]</i>	Received by (print): Shirley Sherman
Sample Disposal: _____		Return to Client: _____	Lab Disposal: _____	Received by Laboratory: _____	Date/Time: 7/20/08 800
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.		RECEIVED BY: AS PER BUCK SEE ATTACHED Normal Turnaround (TAT) RUSH Contract ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: All GW. Receipt Temp: 5.9 °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal Intact: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Signature: <i>[Signature]</i>			



ANALYTICAL SUMMARY REPORT

November 14, 2008

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

Workorder No.: R08080332 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 9 samples for RESPEC Inc on 8/21/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08080332-001	DewBurd GW688	08/20/08 10:07	08/21/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08080332-002	DewBurd GW680	08/20/08 10:23	08/21/08	Aqueous	Same As Above
R08080332-003	DewBurd GW622	08/20/08 12:59	08/21/08	Aqueous	Same As Above
R08080332-004	DewBurd GW615	08/20/08 13:26	08/21/08	Aqueous	Same As Above
R08080332-005	DewBurd GW695	08/20/08 14:20	08/21/08	Aqueous	Same As Above
R08080332-006	DewBurd GW696	08/20/08 15:10	08/21/08	Aqueous	Same As Above
R08080332-007	DewBurd GW694	08/20/08 15:45	08/21/08	Aqueous	Same As Above
R08080332-008	DewBurd GW697	08/20/08 17:10	08/21/08	Aqueous	Same As Above



ANALYTICAL SUMMARY REPORT

R08080332-009	DewBurd BLK01	08/20/08 17:25	08/21/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
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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



CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08080332

Date: 14-Nov-08

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 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.
- 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: C08081026

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. The MDC of 0.2 pCi/L for Ra226 was not achievable on all samples due to insufficient volume.

End of comments imported for SUBBED Workorder: C08081026



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-001
 Client Sample ID: DewBurd GW688

Report Date: 11/14/08
 Collection Date: 08/20/08 10:07
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
MAJOR IONS							
Alkalinity, Total as CaCO3	166	mg/L		5	1	A2320 B	08/21/08 14:44/mb
Carbonate as CO3	ND	mg/L		5	1	A2320 B	08/21/08 14:44/mb
Bicarbonate as HCO3	202	mg/L		5	1	A2320 B	08/21/08 14:44/mb
Calcium	51.7	mg/L		0.5	2	E200.7	09/02/08 15:56/eli-c
Chloride	11	mg/L		1	1	E300.0	08/22/08 20:03/jmh
Fluoride	0.6	mg/L		0.1	1	E300.0	08/22/08 20:03/jmh
Magnesium	21.6	mg/L		0.5	2	E200.7	09/02/08 15:56/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1	1	A4500-NH3 G	08/21/08 18:28/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1	1	E300.0	08/22/08 20:03/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1	1	E300.0	08/22/08 20:03/jmh
Potassium	12.1	mg/L		0.5	2	E200.7	09/02/08 15:56/eli-c
Silica	3.9	mg/L		0.5	2	E200.7	09/02/08 15:56/eli-c
Sodium	196	mg/L	D	2	2	E200.7	09/02/08 15:56/eli-c
Sulfate	425	mg/L	D	3	50	E300.0	08/22/08 19:14/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1430	umhos/cm		5.0	1	A2510 B	08/22/08 11:55/tb
Oxidation-Reduction Potential	180	mV			1	A2580 B	08/25/08 00:00/jmh
pH	8.35	s.u.		0.01	1	A4500-H B	08/22/08 14:01/tb
Sodium Adsorption Ratio (SAR)	5.8	unitless		0.10	1	Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	810	mg/L		5	1	A2540 C	08/25/08 16:02/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1	2	E200.7	09/02/08 15:56/eli-c
Arsenic	ND	mg/L		0.001	1	E200.8	10/27/08 12:44/eli-c
Barium	ND	mg/L		0.1	2	E200.7	09/02/08 15:56/eli-c
Boron	ND	mg/L		0.1	2	E200.7	09/02/08 15:56/eli-c
Cadmium	ND	mg/L		0.005	1	E200.8	09/04/08 03:00/eli-c
Chromium	ND	mg/L		0.05	2	E200.7	09/02/08 15:56/eli-c
Copper	ND	mg/L		0.01	1	E200.8	09/04/08 03:00/eli-c
Iron	0.04	mg/L		0.03	2	E200.7	09/02/08 15:56/eli-c
Lead	ND	mg/L		0.001	1	E200.8	09/04/08 03:00/eli-c
Manganese	0.05	mg/L		0.01	2	E200.7	09/02/08 15:56/eli-c
Mercury	ND	mg/L		0.001	1	E200.8	09/04/08 03:00/eli-c
Molybdenum	ND	mg/L		0.1	2	E200.7	09/02/08 15:56/eli-c
Nickel	ND	mg/L		0.05	2	E200.7	09/02/08 15:56/eli-c
Selenium	ND	mg/L		0.001	1	A3114 B	09/01/08 11:58/eli-c
Silver	ND	mg/L		0.005	1	E200.8	09/04/08 17:07/eli-c
Thorium 232	ND	mg/L		0.005	1	E200.8	09/04/08 03:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080332-001
 Client Sample ID: DewBurd GW688

Report Date: 11/14/08
 Collection Date: 08/20/08 10:07
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/04/08 03:00/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	09/02/08 15:56/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/02/08 15:56/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/11/08 00:14/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/08 16:30/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	11.8	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha precision (±)	3.0	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha MDC	3.4	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta	11.0	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta precision (±)	2.3	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta MDC	3.6	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Lead 210	3.8	pCi/L	U			1	E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.4	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	09/03/08 19:15/eli-c
Radium 226	1.7	pCi/L				1	E903.0	09/20/08 21:07/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	09/20/08 21:07/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	09/21/08 12:59/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	09/21/08 12:59/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-6	pCi/L	U			1	E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.5	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	09/17/08 15:43/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	09/17/08 15:43/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	09/17/08 15:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080332-001
 Client Sample ID: DewBurd GW688

Report Date: 11/14/08
 Collection Date: 08/20/08 10:07
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.0	pCi/L	U	0.2	1	E907.0	09/28/08 13:33/eli-c
Thorium 230 precision (±)	0.1	pCi/L			1	E907.0	09/28/08 13:33/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	449	pCi/L		100	1	D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	90.9	pCi/L			1	D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003	1	E200.8	09/04/08 03:07/eli-c
Arsenic	0.002	mg/L		0.001	1	E200.8	10/28/08 17:06/eli-c
Barium	ND	mg/L		0.1	2	E200.7	09/02/08 19:10/eli-c
Beryllium	ND	mg/L		0.001	1	E200.8	09/04/08 03:07/eli-c
Boron	ND	mg/L		0.1	2	E200.7	09/02/08 19:10/eli-c
Cadmium	ND	mg/L		0.005	1	E200.8	09/04/08 03:07/eli-c
Chromium	ND	mg/L		0.05	2	E200.7	09/02/08 19:10/eli-c
Copper	ND	mg/L		0.01	2	E200.7	09/02/08 19:10/eli-c
Iron	0.24	mg/L		0.03	2	E200.7	09/02/08 19:10/eli-c
Lead	ND	mg/L		0.001	1	E200.8	09/04/08 03:07/eli-c
Manganese	0.05	mg/L		0.01	2	E200.7	09/02/08 19:10/eli-c
Mercury	ND	mg/L		0.001	1	E245.1	08/28/08 08:55/eli-b
Molybdenum	ND	mg/L		0.1	2	E200.7	09/02/08 19:10/eli-c
Nickel	ND	mg/L		0.05	2	E200.7	09/02/08 19:10/eli-c
Selenium	ND	mg/L		0.001	1	E200.8	09/04/08 03:07/eli-c
Silver	ND	mg/L		0.005	1	E200.8	09/04/08 17:14/eli-c
Strontium	1.3	mg/L		0.1	2	E200.7	09/02/08 19:10/eli-c
Thallium	ND	mg/L		0.001	1	E200.8	09/04/08 03:07/eli-c
Uranium	ND	mg/L		0.0003	1	E200.8	09/04/08 03:07/eli-c
Zinc	0.01	mg/L		0.01	2	E200.7	09/02/08 19:10/eli-c
DATA QUALITY							
A/C Balance (± 5)	2.75	%			1	A1030 E	11/04/08 00:00/jmh
Anions	12.5	meq/L			1	A1030 E	11/04/08 00:00/jmh
Cations	13.2	meq/L			1	A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	829	mg/L			1	A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.970				1	A1030 E	11/04/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: R08080332-002
 Client Sample ID: DewBurd GW680

Report Date: 11/14/08
 Collection Date: 08/20/08 10:23
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	160	mg/L		5		1	A2320 B	08/21/08 14:47/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/21/08 14:47/mb
Bicarbonate as HCO3	195	mg/L		5		1	A2320 B	08/21/08 14:47/mb
Calcium	395	mg/L		0.5		2	E200.7	09/02/08 16:08/eli-c
Chloride	13	mg/L		1		1	E300.0	08/22/08 20:36/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	08/22/08 20:36/jmh
Magnesium	129	mg/L		0.5		2	E200.7	09/02/08 16:08/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	08/21/08 18:29/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	08/22/08 20:36/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	08/22/08 20:36/jmh
Potassium	18.8	mg/L		0.5		2	E200.7	09/02/08 16:08/eli-c
Silica	3.8	mg/L		0.5		2	E200.7	09/02/08 16:08/eli-c
Sodium	138	mg/L	D	2		2	E200.7	09/02/08 16:08/eli-c
Sulfate	1430	mg/L	D	3		50	E300.0	08/22/08 20:20/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2920	umhos/cm		5.0		1	A2510 B	08/22/08 11:59/tb
Oxidation-Reduction Potential	230	mV				1	A2580 B	08/25/08 00:00/jmh
pH	7.65	s.u.		0.01		1	A4500-H B	08/22/08 14:05/tb
Sodium Adsorption Ratio (SAR)	1.5	unitless		0.10		1	Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	08/25/08 16:02/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	09/02/08 16:08/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	10/27/08 12:49/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/02/08 16:08/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	09/02/08 16:08/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/04/08 03:14/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/02/08 16:08/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/04/08 03:14/eli-c
Iron	0.20	mg/L		0.03		2	E200.7	09/02/08 16:08/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/04/08 03:14/eli-c
Manganese	0.46	mg/L		0.01		2	E200.7	09/02/08 16:08/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/04/08 03:14/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	09/02/08 16:08/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/02/08 16:08/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	09/01/08 12:00/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/04/08 17:21/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/04/08 03:14/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080332-002
 Client Sample ID: DewBurd GW680

Report Date: 11/14/08
 Collection Date: 08/20/08 10:23
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0188	mg/L		0.0003		1	E200.8	09/04/08 03:14/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	09/02/08 16:08/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/02/08 16:08/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/11/08 00:19/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/08 16:32/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	4330	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha precision (±)	67.6	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha MDC	8.5	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta	1190	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta precision (±)	16.9	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta MDC	9.5	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Lead 210	15.2	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.6	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.6	pCi/L	U	1.0		1	RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1	RMO-3008	09/03/08 19:15/eli-c
Radium 226	1270	pCi/L				1	E903.0	09/20/08 21:10/eli-c
Radium 226 precision (±)	45.6	pCi/L				1	E903.0	09/20/08 21:10/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	09/21/08 12:59/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	09/21/08 12:59/eli-c
Gross Gamma	3200	pCi/L		20		1	E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	120	pCi/L				1	E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-4	pCi/L	U			1	E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.5	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Polonium 210	1.0	pCi/L	U	1.0		1	RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.62	pCi/L				1	RMO-3008	09/15/08 14:35/eli-c
Radium 226	2.1	pCi/L				1	E903.0	09/17/08 15:43/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	09/17/08 15:43/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	09/17/08 15:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080332-002
 Client Sample ID: DewBurd GW680

Report Date: 11/14/08
 Collection Date: 08/20/08 10:23
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	09/28/08 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	09/28/08 13:33/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	112000	pCi/L		100		1	D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	530	pCi/L				1	D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		10	E200.8	09/04/08 00:03/eli-c
Arsenic	0.005	mg/L	D	0.004		1	E200.8	10/18/08 14:48/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/03/08 03:26/eli-c
Beryllium	ND	mg/L	D	0.003		10	E200.8	09/04/08 00:03/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	09/03/08 03:26/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	09/04/08 00:03/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/03/08 03:26/eli-c
Copper	ND	mg/L		0.01		2	E200.7	09/03/08 03:26/eli-c
Iron	0.31	mg/L		0.03		2	E200.7	09/03/08 03:26/eli-c
Lead	ND	mg/L		0.001		10	E200.8	09/04/08 00:03/eli-c
Manganese	0.46	mg/L		0.01		2	E200.7	09/03/08 03:26/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	08/28/08 08:58/eii-b
Molybdenum	ND	mg/L		0.1		2	E200.7	09/03/08 03:26/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/03/08 03:26/eli-c
Selenium	ND	mg/L	D	0.003		10	E200.8	09/04/08 00:03/eli-c
Silver	ND	mg/L	D	0.02		10	E200.8	09/04/08 00:03/eli-c
Strontium	7.2	mg/L		0.1		2	E200.7	09/03/08 03:26/eli-c
Thallium	ND	mg/L		0.001		10	E200.8	09/04/08 00:03/eli-c
Uranium	0.0180	mg/L	D	0.0005		10	E200.8	09/04/08 00:03/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/03/08 03:26/eli-c
DATA QUALITY								
A/C Balance (± 5)	5.11	%				1	A1030 E	11/04/08 00:00/jmh
Anions	33.2	meq/L				1	A1030 E	11/04/08 00:00/jmh
Cations	36.8	meq/L				1	A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	2230	mg/L				1	A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.03					1	A1030 E	11/04/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-003
 Client Sample ID: DewBurd GW622

Report Date: 11/14/08
 Collection Date: 08/20/08 12:59
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	184	mg/L		5			1	A2320 B	08/21/08 15:18/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	08/21/08 15:18/mb
Bicarbonate as HCO3	224	mg/L		5			1	A2320 B	08/21/08 15:18/mb
Calcium	95.2	mg/L		0.5			2	E200.7	09/02/08 17:01/eli-c
Chloride	10	mg/L		1			1	E300.0	08/22/08 21:09/jmh
Fluoride	0.5	mg/L		0.1			1	E300.0	08/22/08 21:09/jmh
Magnesium	32.3	mg/L		0.5			2	E200.7	09/02/08 17:01/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	08/21/08 18:33/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	08/22/08 21:09/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	08/22/08 21:09/jmh
Potassium	10.6	mg/L		0.5			2	E200.7	09/02/08 17:01/eli-c
Silica	3.9	mg/L		0.5			2	E200.7	09/02/08 17:01/eli-c
Sodium	183	mg/L	D	2			2	E200.7	09/02/08 17:01/eli-c
Sulfate	504	mg/L	D	3			50	E300.0	08/22/08 20:53/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1460	umhos/cm		5.0			1	A2510 B	08/22/08 12:00/tb
Oxidation-Reduction Potential	210	mV					1	A2580 B	08/25/08 00:00/jmh
pH	7.84	s.u.		0.01			1	A4500-H B	08/22/08 14:05/tb
Sodium Adsorption Ratio (SAR)	4.1	unitless		0.10			1	Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5			1	A2540 C	08/25/08 16:03/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	09/02/08 17:01/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	09/04/08 03:20/eli-c
Barium	ND	mg/L		0.1			2	E200.7	09/02/08 17:01/eli-c
Boron	ND	mg/L		0.1			2	E200.7	09/02/08 17:01/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	09/04/08 03:20/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	09/02/08 17:01/eli-c
Copper	ND	mg/L		0.01			1	E200.8	09/04/08 03:20/eli-c
Iron	ND	mg/L		0.03			2	E200.7	09/02/08 17:01/eli-c
Lead	ND	mg/L		0.001			1	E200.8	09/04/08 03:20/eli-c
Manganese	0.19	mg/L		0.01			2	E200.7	09/02/08 17:01/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	09/04/08 03:20/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	09/02/08 17:01/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	09/02/08 17:01/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	09/01/08 12:02/eli-c
Silver	ND	mg/L		0.005			1	E200.8	09/04/08 17:28/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	09/04/08 03:20/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080332-003
Client Sample ID: DewBurd GW622

Report Date: 11/14/08
Collection Date: 08/20/08 12:59
Date Received: 08/21/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0050	mg/L		0.0003		1	E200.8	09/04/08 03:20/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	09/02/08 17:01/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/02/08 17:01/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/11/08 00:23/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/08 16:35/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	27.7	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha precision (±)	4.2	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha MDC	3.8	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta	12.4	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta precision (±)	3.0	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta MDC	4.7	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Lead 210	0.1	pCi/L	U			1	E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.4	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1	RMO-3008	09/03/08 19:15/eli-c
Radium 226	4.4	pCi/L				1	E903.0	09/20/08 22:40/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	09/20/08 22:40/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	09/21/08 12:59/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	09/21/08 12:59/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-4	pCi/L	U			1	E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.5	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1	RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	09/17/08 15:43/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	09/17/08 15:43/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	09/17/08 15:43/eli-c

Report RL - Analyte reporting limit.
Definitions: 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: R08080332-003
 Client Sample ID: DewBurd GW622

Report Date: 11/14/08
 Collection Date: 08/20/08 12:59
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	-0.1	pCi/L	U	0.2			1	E907.0	09/28/08 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	09/28/08 13:33/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1370	pCi/L		100			1	D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	101	pCi/L					1	D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	09/04/08 03:27/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	10/28/08 18:26/eli-c
Barium	ND	mg/L		0.1			2	E200.7	09/02/08 19:14/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	09/04/08 03:27/eli-c
Boron	ND	mg/L		0.1			2	E200.7	09/02/08 19:14/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	09/04/08 03:27/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	09/02/08 19:14/eli-c
Copper	ND	mg/L		0.01			2	E200.7	09/02/08 19:14/eli-c
Iron	1.00	mg/L		0.03			2	E200.7	09/02/08 19:14/eli-c
Lead	ND	mg/L		0.001			1	E200.8	09/04/08 03:27/eli-c
Manganese	0.19	mg/L		0.01			2	E200.7	09/02/08 19:14/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	08/28/08 09:00/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	09/02/08 19:14/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	09/02/08 19:14/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	09/04/08 03:27/eli-c
Silver	ND	mg/L		0.005			1	E200.8	09/04/08 17:35/eli-c
Strontium	1.6	mg/L		0.1			2	E200.7	09/02/08 19:14/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	09/04/08 03:27/eli-c
Uranium	0.0050	mg/L		0.0003			1	E200.8	09/04/08 03:27/eli-c
Zinc	0.01	mg/L		0.01			2	E200.7	09/02/08 19:14/eli-c
DATA QUALITY									
A/C Balance (± 5)	3.93	%					1	A1030 E	11/04/08 00:00/jmh
Anions	14.5	meq/L					1	A1030 E	11/04/08 00:00/jmh
Cations	15.7	meq/L					1	A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	957	mg/L					1	A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960						1	A1030 E	11/04/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: R08080332-004
 Client Sample ID: DewBurd GW615

Report Date: 11/14/08
 Collection Date: 08/20/08 13:26
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	142	mg/L		5		1	A2320 B	08/21/08 15:20/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/21/08 15:20/mb
Bicarbonate as HCO3	173	mg/L		5		1	A2320 B	08/21/08 15:20/mb
Calcium	78.0	mg/L		0.5		2	E200.7	09/02/08 17:05/eli-c
Chloride	5	mg/L		1		1	E300.0	08/22/08 21:42/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	08/22/08 21:42/jmh
Magnesium	22.7	mg/L		0.5		2	E200.7	09/02/08 17:05/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	08/21/08 18:36/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	08/22/08 21:42/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	08/22/08 21:42/jmh
Potassium	9.1	mg/L		0.5		2	E200.7	09/02/08 17:05/eli-c
Silica	4.1	mg/L		0.5		2	E200.7	09/02/08 17:05/eli-c
Sodium	138	mg/L	D	2		2	E200.7	09/02/08 17:05/eli-c
Sulfate	401	mg/L	D	3		50	E300.0	08/22/08 21:25/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1250	umhos/cm		5.0		1	A2510 B	08/22/08 12:02/tb
Oxidation-Reduction Potential	330	mV				1	A2580 B	08/25/08 00:00/jmh
pH	8.03	s.u.		0.01		1	A4500-H B	08/22/08 14:10/tb
Sodium Adsorption Ratio (SAR)	3.5	unitless		0.10		1	Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	740	mg/L		5		1	A2540 C	08/25/08 16:03/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	09/02/08 17:05/eli-c
Arsenic	0.018	mg/L		0.001		1	E200.8	10/27/08 12:54/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/02/08 17:05/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/02/08 17:05/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	09/02/08 17:05/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/02/08 17:05/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/04/08 03:34/eli-c
Iron	0.73	mg/L		0.03		2	E200.7	09/02/08 17:05/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/04/08 03:34/eli-c
Manganese	0.07	mg/L		0.01		2	E200.7	09/02/08 17:05/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/04/08 03:34/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	09/02/08 17:05/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/02/08 17:05/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	09/01/08 12:05/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/04/08 17:41/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/04/08 03:34/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080332-004
 Client Sample ID: DewBurd GW615

Report Date: 11/14/08
 Collection Date: 08/20/08 13:26
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0023	mg/L		0.0003		1	E200.8	09/04/08 03:34/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	09/02/08 17:05/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/02/08 17:05/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/11/08 00:27/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/08 16:37/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	17.3	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha precision (±)	3.0	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha MDC	2.9	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta	9.6	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta precision (±)	2.1	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta MDC	3.2	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Lead 210	4.6	pCi/L	U			1	E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.4	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.10	pCi/L				1	RMO-3008	09/03/08 19:15/eli-c
Radium 226	1.8	pCi/L				1	E903.0	09/21/08 00:11/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	09/21/08 00:11/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	09/21/08 12:59/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	09/21/08 12:59/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-6	pCi/L	U			1	E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.5	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	09/17/08 15:43/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	09/17/08 15:43/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	09/17/08 15:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080332-004
 Client Sample ID: DewBurd GW615

Report Date: 11/14/08
 Collection Date: 08/20/08 13:26
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.2	pCi/L	U	0.2	1	E907.0	09/28/08 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L			1	E907.0	09/28/08 13:33/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	1880	pCi/L		100	1	D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	106	pCi/L			1	D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003	1	E200.8	09/04/08 03:41/eli-c
Arsenic	0.021	mg/L		0.001	1	E200.8	10/28/08 18:32/eli-c
Barium	ND	mg/L		0.1	2	E200.7	09/02/08 19:31/eli-c
Beryllium	ND	mg/L		0.001	1	E200.8	09/04/08 03:41/eli-c
Boron	ND	mg/L		0.1	2	E200.7	09/02/08 19:31/eli-c
Cadmium	ND	mg/L		0.005	2	E200.7	09/02/08 19:31/eli-c
Chromium	ND	mg/L		0.05	2	E200.7	09/02/08 19:31/eli-c
Copper	ND	mg/L		0.01	2	E200.7	09/02/08 19:31/eli-c
Iron	1.32	mg/L		0.03	2	E200.7	09/02/08 19:31/eli-c
Lead	ND	mg/L		0.001	1	E200.8	09/04/08 03:41/eli-c
Manganese	0.07	mg/L		0.01	2	E200.7	09/02/08 19:31/eli-c
Mercury	ND	mg/L		0.001	1	E245.1	08/28/08 09:07/eli-b
Molybdenum	ND	mg/L		0.1	2	E200.7	09/02/08 19:31/eli-c
Nickel	ND	mg/L		0.05	2	E200.7	09/02/08 19:31/eli-c
Selenium	ND	mg/L		0.001	1	E200.8	09/04/08 03:41/eli-c
Silver	ND	mg/L		0.005	1	E200.8	09/04/08 17:48/eli-c
Strontium	1.4	mg/L		0.1	2	E200.7	09/02/08 19:31/eli-c
Thallium	ND	mg/L		0.001	1	E200.8	09/04/08 03:41/eli-c
Uranium	0.0023	mg/L		0.0003	1	E200.8	09/04/08 03:41/eli-c
Zinc	0.01	mg/L		0.01	2	E200.7	09/02/08 19:31/eli-c
DATA QUALITY							
A/C Balance (± 5)	2.92	%			1	A1030 E	11/04/08 00:00/jmh
Anions	11.4	meq/L			1	A1030 E	11/04/08 00:00/jmh
Cations	12.0	meq/L			1	A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	751	mg/L			1	A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.980				1	A1030 E	11/04/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: R08080332-005
 Client Sample ID: DewBurd GW695

Report Date: 11/14/08
 Collection Date: 08/20/08 14:20
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	172	mg/L		5		1 A2320 B	08/21/08 15:22/mb
Carbonate as CO3	ND	mg/L		5		1 A2320 B	08/21/08 15:22/mb
Bicarbonate as HCO3	210	mg/L		5		1 A2320 B	08/21/08 15:22/mb
Calcium	52.7	mg/L		0.5		2 E200.7	09/02/08 17:09/eli-c
Chloride	12	mg/L		1		1 E300.0	08/22/08 23:20/jmh
Fluoride	0.5	mg/L		0.1		1 E300.0	08/22/08 23:20/jmh
Magnesium	18.9	mg/L		0.5		2 E200.7	09/02/08 17:09/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1 A4500-NH3 G	08/21/08 18:37/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1 E300.0	08/22/08 23:20/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1 E300.0	08/22/08 23:20/jmh
Potassium	8.6	mg/L		0.5		2 E200.7	09/02/08 17:09/eli-c
Silica	4.0	mg/L		0.5		2 E200.7	09/02/08 17:09/eli-c
Sodium	258	mg/L	D	2		2 E200.7	09/02/08 17:09/eli-c
Sulfate	466	mg/L	D	3	50	1 E300.0	08/22/08 22:31/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1650	umhos/cm		5.0		1 A2510 B	08/22/08 12:03/tb
Oxidation-Reduction Potential	210	mV				1 A2580 B	08/25/08 00:00/jmh
pH	8.08	s.u.		0.01		1 A4500-H B	08/22/08 14:11/tb
Sodium Adsorption Ratio (SAR)	7.8	unitless		0.10		1 Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	900	mg/L		5		1 A2540 C	08/25/08 16:04/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2 E200.7	09/02/08 17:09/eli-c
Arsenic	ND	mg/L		0.001		1 E200.8	09/04/08 03:47/eli-c
Barium	ND	mg/L		0.1		2 E200.7	09/02/08 17:09/eli-c
Boron	ND	mg/L		0.1		2 E200.7	09/02/08 17:09/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	09/04/08 03:47/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	09/02/08 17:09/eli-c
Copper	ND	mg/L		0.01		1 E200.8	09/04/08 03:47/eli-c
Iron	ND	mg/L		0.03		2 E200.7	09/02/08 17:09/eli-c
Lead	ND	mg/L		0.001		1 E200.8	09/04/08 03:47/eli-c
Manganese	0.08	mg/L		0.01		2 E200.7	09/02/08 17:09/eli-c
Mercury	ND	mg/L		0.001		1 E200.8	09/04/08 03:47/eli-c
Molybdenum	ND	mg/L		0.1		2 E200.7	09/02/08 17:09/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	09/02/08 17:09/eli-c
Selenium	ND	mg/L		0.001		1 A3114 B	09/01/08 12:07/eli-c
Silver	ND	mg/L		0.005		1 E200.8	09/04/08 17:55/eli-c
Thorium 232	ND	mg/L		0.005		1 E200.8	09/04/08 03:47/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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.
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-005
 Client Sample ID: DewBurd GW695

Report Date: 11/14/08
 Collection Date: 08/20/08 14:20
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
METALS - DISSOLVED							
Uranium	0.0026	mg/L		0.0003	1	E200.8	09/04/08 03:47/eli-c
Vanadium	ND	mg/L		0.1	2	E200.7	09/02/08 17:09/eli-c
Zinc	ND	mg/L		0.01	2	E200.7	09/02/08 17:09/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003	1	E200.8	09/11/08 00:32/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001	1	A3114 B	08/31/08 16:39/eli-c
Selenium-VI	ND	mg/L		0.001	1	A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	21.6	pCi/L			1	E900.0	09/25/08 02:03/eli-c
Gross Alpha precision (±)	4.0	pCi/L			1	E900.0	09/25/08 02:03/eli-c
Gross Alpha MDC	3.9	pCi/L			1	E900.0	09/25/08 02:03/eli-c
Gross Beta	8.5	pCi/L			1	E900.0	09/25/08 02:03/eli-c
Gross Beta precision (±)	3.0	pCi/L			1	E900.0	09/25/08 02:03/eli-c
Gross Beta MDC	4.7	pCi/L			1	E900.0	09/25/08 02:03/eli-c
Lead 210	-1	pCi/L	U		1	E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.3	pCi/L			1	E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L			1	E909.0M	09/04/08 07:39/eli-c
Polonium 210	-0.2	pCi/L	U	1.0	1	RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.40	pCi/L			1	RMO-3008	09/03/08 19:15/eli-c
Radium 226	3.9	pCi/L			1	E903.0	09/21/08 01:41/eli-c
Radium 226 precision (±)	0.5	pCi/L			1	E903.0	09/21/08 01:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2	1	E907.0	09/21/08 12:59/eli-c
Thorium 230 precision (±)	0.09	pCi/L			1	E907.0	09/21/08 12:59/eli-c
Gross Gamma	450	pCi/L		20	1	E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	60	pCi/L			1	E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-6	pCi/L	U		1	E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.5	pCi/L			1	E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L			1	E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.1	pCi/L	U	1.0	1	RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.31	pCi/L			1	RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.005	pCi/L	U		1	E903.0	09/17/08 15:43/eli-c
Radium 226 precision (±)	0.3	pCi/L			1	E903.0	09/17/08 15:43/eli-c
Radium 226 MDC	0.5	pCi/L			1	E903.0	09/17/08 15:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080332-005
 Client Sample ID: DewBurd GW695

Report Date: 11/14/08
 Collection Date: 08/20/08 14:20
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	09/28/08 13:33/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	09/28/08 13:33/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	1950	pCi/L		100		1	D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	107	pCi/L				1	D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	09/04/08 03:54/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/28/08 18:37/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/02/08 19:35/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	09/04/08 03:54/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/02/08 19:35/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/04/08 03:54/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/02/08 19:35/eli-c
Copper	ND	mg/L		0.01		2	E200.7	09/02/08 19:35/eli-c
Iron	0.16	mg/L		0.03		2	E200.7	09/02/08 19:35/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/04/08 03:54/eli-c
Manganese	0.08	mg/L		0.01		2	E200.7	09/02/08 19:35/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	08/29/08 13:59/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	09/02/08 19:35/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/02/08 19:35/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	09/04/08 03:54/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/04/08 18:02/eli-c
Strontium	0.9	mg/L		0.1		2	E200.7	09/02/08 19:35/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	09/04/08 03:54/eli-c
Uranium	0.0026	mg/L		0.0003		1	E200.8	09/04/08 03:54/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/02/08 19:35/eli-c
DATA QUALITY								
A/C Balance (± 5)	7.38	%				1	A1030 E	11/04/08 00:00/jmh
Anions	13.5	meq/L				1	A1030 E	11/04/08 00:00/jmh
Cations	15.6	meq/L				1	A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	931	mg/L				1	A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.970					1	A1030 E	11/04/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: R08080332-006
 Client Sample ID: DewBurd GW696

Report Date: 11/14/08
 Collection Date: 08/20/08 15:10
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	182	mg/L		5		1	A2320 B 08/21/08 15:25/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 08/21/08 15:25/mb
Bicarbonate as HCO3	222	mg/L		5		1	A2320 B 08/21/08 15:25/mb
Calcium	32.3	mg/L		0.5		2	E200.7 09/02/08 17:13/eli-c
Chloride	13	mg/L		1		1	E300.0 08/22/08 23:53/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0 08/22/08 23:53/jmh
Magnesium	11.0	mg/L		0.5		2	E200.7 09/02/08 17:13/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH3 G 08/21/08 18:39/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 08/22/08 23:53/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 08/22/08 23:53/jmh
Potassium	9.3	mg/L		0.5		2	E200.7 09/02/08 17:13/eli-c
Silica	4.5	mg/L		0.5		2	E200.7 09/02/08 17:13/eli-c
Sodium	297	mg/L	D	2		2	E200.7 09/02/08 17:13/eli-c
Sulfate	495	mg/L	D	3		50	E300.0 08/22/08 23:37/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1690	umhos/cm		5.0		1	A2510 B 08/22/08 12:04/tb
Oxidation-Reduction Potential	210	mV				1	A2580 B 08/25/08 00:00/jmh
pH	8.29	s.u.		0.01		1	A4500-H B 08/22/08 14:12/tb
Sodium Adsorption Ratio (SAR)	11	unitless		0.10		1	Calculation 11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	930	mg/L		5		1	A2540 C 08/25/08 16:05/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 09/02/08 17:13/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 09/04/08 04:28/eli-c
Barium	ND	mg/L		0.1		2	E200.7 09/02/08 17:13/eli-c
Boron	ND	mg/L		0.1		2	E200.7 09/02/08 17:13/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 09/04/08 04:28/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 09/02/08 17:13/eli-c
Copper	ND	mg/L		0.01		1	E200.8 09/04/08 04:28/eli-c
Iron	ND	mg/L		0.03		2	E200.7 09/02/08 17:13/eli-c
Lead	ND	mg/L		0.001		1	E200.8 09/04/08 04:28/eli-c
Manganese	0.07	mg/L		0.01		2	E200.7 09/02/08 17:13/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 09/04/08 04:28/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 09/02/08 17:13/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 09/02/08 17:13/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 09/01/08 12:09/eli-c
Silver	ND	mg/L		0.005		1	E200.8 09/05/08 01:44/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 09/05/08 01:44/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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. Page 16 of 27



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-006
 Client Sample ID: DewBurd GW696

Report Date: 11/14/08
 Collection Date: 08/20/08 15:10
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/04/08 04:28/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/04/08 04:28/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/02/08 17:13/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/11/08 00:36/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/08 16:41/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	7.1	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha precision (±)	2.9	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha MDC	3.9	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta	6.7	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta precision (±)	2.9	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta MDC	4.7	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Lead 210	3.4	pCi/L	U			1	E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.4	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Polonium 210	-0.3	pCi/L	U	1.0		1	RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.10	pCi/L				1	RMO-3008	09/03/08 19:15/eli-c
Radium 226	1.3	pCi/L				1	E903.0	09/21/08 03:12/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	09/21/08 03:12/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	09/21/08 12:59/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	09/21/08 12:59/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.2	pCi/L	U			1	E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.6	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.36	pCi/L				1	RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.1	pCi/L	U			1	E903.0	09/17/08 15:43/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	09/17/08 15:43/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	09/17/08 15:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080332-006
 Client Sample ID: DewBurd GW696

Report Date: 11/14/08
 Collection Date: 08/20/08 15:10
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.0	pCi/L	U	0.2	1	E907.0	09/28/08 13:33/eli-c
Thorium 230 precision (±)	0.08	pCi/L			1	E907.0	09/28/08 13:33/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	343	pCi/L		100	1	D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	86.3	pCi/L			1	D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003	1	E200.8	09/04/08 04:35/eli-c
Arsenic	ND	mg/L		0.001	1	E200.8	09/04/08 04:35/eli-c
Barium	ND	mg/L		0.1	2	E200.7	09/02/08 19:39/eli-c
Beryllium	ND	mg/L		0.001	1	E200.8	09/04/08 04:35/eli-c
Boron	ND	mg/L		0.1	2	E200.7	09/02/08 19:39/eli-c
Cadmium	ND	mg/L		0.005	1	E200.8	09/04/08 04:35/eli-c
Chromium	ND	mg/L		0.05	2	E200.7	09/02/08 19:39/eli-c
Copper	ND	mg/L		0.01	2	E200.7	09/02/08 19:39/eli-c
Iron	0.10	mg/L		0.03	2	E200.7	09/02/08 19:39/eli-c
Lead	ND	mg/L		0.001	1	E200.8	09/04/08 04:35/eli-c
Manganese	0.07	mg/L		0.01	2	E200.7	09/02/08 19:39/eli-c
Mercury	ND	mg/L		0.001	1	E245.1	08/29/08 14:01/eli-b
Molybdenum	ND	mg/L		0.1	2	E200.7	09/02/08 19:39/eli-c
Nickel	ND	mg/L		0.05	2	E200.7	09/02/08 19:39/eli-c
Selenium	ND	mg/L		0.001	1	E200.8	09/04/08 04:35/eli-c
Silver	ND	mg/L		0.005	1	E200.8	09/04/08 18:36/eli-c
Strontium	0.8	mg/L		0.1	2	E200.7	09/02/08 19:39/eli-c
Thallium	ND	mg/L		0.001	1	E200.8	09/04/08 04:35/eli-c
Uranium	ND	mg/L		0.0003	1	E200.8	09/04/08 04:35/eli-c
Zinc	0.01	mg/L		0.01	2	E200.7	09/02/08 19:39/eli-c
DATA QUALITY							
A/C Balance (± 5)	4.56	%			1	A1030 E	11/04/08 00:00/jmh
Anions	14.3	meq/L			1	A1030 E	11/04/08 00:00/jmh
Cations	15.7	meq/L			1	A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	978	mg/L			1	A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960				1	A1030 E	11/04/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: R08080332-007
 Client Sample ID: DewBurd GW694

Report Date: 11/14/08
 Collection Date: 08/20/08 15:45
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	202	mg/L		5		1	A2320 B	08/21/08 15:28/mb
Carbonate as CO3	ND	mg/L			5	1	A2320 B	08/21/08 15:28/mb
Bicarbonate as HCO3	246	mg/L		5		1	A2320 B	08/21/08 15:28/mb
Calcium	103	mg/L		0.5		2	E200.7	09/02/08 17:17/eli-c
Chloride	9	mg/L		1		1	E300.0	08/23/08 00:26/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	08/23/08 00:26/jmh
Magnesium	36.9	mg/L		0.5		2	E200.7	09/02/08 17:17/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	08/21/08 18:40/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	08/23/08 00:26/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	08/23/08 00:26/jmh
Potassium	13.4	mg/L		0.5		2	E200.7	09/02/08 17:17/eli-c
Silica	4.1	mg/L		0.5		2	E200.7	09/02/08 17:17/eli-c
Sodium	182	mg/L	D	2		2	E200.7	09/02/08 17:17/eli-c
Sulfate	540	mg/L	D	3		50	E300.0	08/23/08 00:10/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1570	umhos/cm		5.0		1	A2510 B	08/22/08 12:05/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	08/25/08 00:00/jmh
pH	7.81	s.u.		0.01		1	A4500-H B	08/22/08 14:12/tb
Sodium Adsorption Ratio (SAR)	3.9	unitless		0.10		1	Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	990	mg/L		5		1	A2540 C	08/25/08 16:06/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	09/02/08 17:17/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/27/08 13:00/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/02/08 17:17/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/02/08 17:17/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/04/08 04:42/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/02/08 17:17/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/04/08 04:42/eli-c
Iron	ND	mg/L		0.03		2	E200.7	09/02/08 17:17/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/04/08 04:42/eli-c
Manganese	0.16	mg/L		0.01		2	E200.7	09/02/08 17:17/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/04/08 04:42/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	09/02/08 17:17/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/02/08 17:17/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	09/01/08 12:11/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/05/08 01:50/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/05/08 01:50/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080332-007
 Client Sample ID: DewBurd GW694

Report Date: 11/14/08
 Collection Date: 08/20/08 15:45
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0005	mg/L		0.0003		1 E200.8	09/04/08 04:42/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	09/04/08 04:42/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	09/02/08 17:17/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	09/11/08 00:40/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	08/31/08 16:43/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	12.5	pCi/L				1 E900.0	09/25/08 02:03/eli-c
Gross Alpha precision (±)	3.4	pCi/L				1 E900.0	09/25/08 02:03/eli-c
Gross Alpha MDC	4.0	pCi/L				1 E900.0	09/25/08 02:03/eli-c
Gross Beta	10.7	pCi/L				1 E900.0	09/25/08 02:03/eli-c
Gross Beta precision (±)	3.0	pCi/L				1 E900.0	09/25/08 02:03/eli-c
Gross Beta MDC	4.7	pCi/L				1 E900.0	09/25/08 02:03/eli-c
Lead 210	0.0	pCi/L	U			1 E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.4	pCi/L				1 E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1 E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1 RMO-3008	09/03/08 19:15/eli-c
Radium 226	1.8	pCi/L				1 E903.0	09/21/08 04:42/eli-c
Radium 226 precision (±)	0.4	pCi/L				1 E903.0	09/21/08 04:42/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	09/21/08 12:59/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1 E907.0	09/21/08 12:59/eli-c
Gross Gamma	0.0	pCi/L	U	20		1 E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-7	pCi/L	U			1 E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.5	pCi/L				1 E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1 E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.26	pCi/L				1 RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.1	pCi/L	U			1 E903.0	09/17/08 17:18/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	09/17/08 17:18/eli-c
Radium 226 MDC	0.6	pCi/L				1 E903.0	09/17/08 17:18/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080332-007
 Client Sample ID: DewBurd GW694

Report Date: 11/14/08
 Collection Date: 08/20/08 15:45
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	09/29/08 13:22/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	09/29/08 13:22/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	401	pCi/L		100			1	D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	86.8	pCi/L					1	D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	09/04/08 04:48/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	10/28/08 18:42/eli-c
Barium	ND	mg/L		0.1			2	E200.7	09/02/08 19:43/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	09/04/08 04:48/eli-c
Boron	ND	mg/L		0.1			2	E200.7	09/02/08 19:43/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	09/04/08 04:48/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	09/02/08 19:43/eli-c
Copper	ND	mg/L		0.01			2	E200.7	09/02/08 19:43/eli-c
Iron	0.15	mg/L		0.03			2	E200.7	09/02/08 19:43/eli-c
Lead	ND	mg/L		0.001			1	E200.8	09/04/08 04:48/eli-c
Manganese	0.16	mg/L		0.01			2	E200.7	09/02/08 19:43/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	08/29/08 14:04/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	09/02/08 19:43/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	09/02/08 19:43/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	09/04/08 04:48/eli-c
Silver	ND	mg/L		0.005			1	E200.8	09/04/08 18:42/eli-c
Strontium	2.9	mg/L		0.1			2	E200.7	09/02/08 19:43/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	09/04/08 04:48/eli-c
Uranium	0.0005	mg/L		0.0003			1	E200.8	09/04/08 04:48/eli-c
Zinc	0.01	mg/L		0.01			2	E200.7	09/02/08 19:43/eli-c
DATA QUALITY									
A/C Balance (± 5)	2.72	%					1	A1030 E	11/04/08 00:00/jmh
Anions	15.6	meq/L					1	A1030 E	11/04/08 00:00/jmh
Cations	16.4	meq/L					1	A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	1020	mg/L					1	A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.970						1	A1030 E	11/04/08 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



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-008
 Client Sample ID: DewBurd GW697

Report Date: 11/14/08
 Collection Date: 08/20/08 17:10
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	172	mg/L		5			1	A2320 B	08/21/08 15:31/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	08/21/08 15:31/mb
Bicarbonate as HCO3	210	mg/L		5			1	A2320 B	08/21/08 15:31/mb
Calcium	53.5	mg/L		0.5			2	E200.7	09/02/08 17:21/eli-c
Chloride	8	mg/L		1			1	E300.0	08/23/08 00:59/jmh
Fluoride	0.6	mg/L		0.1			1	E300.0	08/23/08 00:59/jmh
Magnesium	17.5	mg/L		0.5			2	E200.7	09/02/08 17:21/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1			1	A4500-NH3 G	08/21/08 18:41/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	08/23/08 00:59/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	08/23/08 00:59/jmh
Potassium	8.6	mg/L		0.5			2	E200.7	09/02/08 17:21/eli-c
Silica	4.1	mg/L		0.5			2	E200.7	09/02/08 17:21/eli-c
Sodium	219	mg/L	D	2			2	E200.7	09/02/08 17:21/eli-c
Sulfate	452	mg/L	D	3			50	E300.0	08/23/08 00:42/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1330	umhos/cm		5.0			1	A2510 B	08/22/08 12:06/tb
Oxidation-Reduction Potential	210	mV					1	A2580 B	08/25/08 00:00/jmh
pH	8.03	s.u.		0.01			1	A4500-H B	08/22/08 14:13/tb
Sodium Adsorption Ratio (SAR)	6.7	unitless		0.10			1	Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	840	mg/L		5			1	A2540 C	08/25/08 16:06/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	09/02/08 17:21/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	10/27/08 13:05/eli-c
Barium	ND	mg/L		0.1			2	E200.7	09/02/08 17:21/eli-c
Boron	ND	mg/L		0.1			2	E200.7	09/02/08 17:21/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	09/04/08 04:55/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	09/02/08 17:21/eli-c
Copper	ND	mg/L		0.01			1	E200.8	09/04/08 04:55/eli-c
Iron	0.04	mg/L		0.03			2	E200.7	09/02/08 17:21/eli-c
Lead	ND	mg/L		0.001			1	E200.8	09/04/08 04:55/eli-c
Manganese	0.06	mg/L		0.01			2	E200.7	09/02/08 17:21/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	09/04/08 04:55/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	09/02/08 17:21/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	09/02/08 17:21/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	09/01/08 12:13/eli-c
Silver	ND	mg/L		0.005			1	E200.8	09/05/08 01:57/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	09/05/08 01:57/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080332-008
 Client Sample ID: DewBurd GW697

Report Date: 11/14/08
 Collection Date: 08/20/08 17:10
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/04/08 04:55/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/04/08 04:55/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/02/08 17:21/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/11/08 00:45/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/08 16:45/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	5.3	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha precision (±)	2.6	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha MDC	3.5	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta	8.6	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta precision (±)	2.3	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta MDC	3.6	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Lead 210	-2	pCi/L	U			1	E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.3	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1	RMO-3008	09/03/08 19:15/eli-c
Radium 226	1.2	pCi/L				1	E903.0	09/21/08 06:13/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	09/21/08 06:13/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	09/21/08 12:59/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	09/21/08 12:59/eli-c
Gross Gamma	850	pCi/L		20		1	E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-10	pCi/L	U			1	E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.4	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Polonium 210	-0.2	pCi/L	U	1.0		1	RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.26	pCi/L				1	RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	09/17/08 17:18/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	09/17/08 17:18/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	09/17/08 17:18/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080332-008
 Client Sample ID: DewBurd GW697

Report Date: 11/14/08
 Collection Date: 08/20/08 17:10
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	09/29/08 13:22/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	09/29/08 13:22/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	367	pCi/L		100			1	D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	85.4	pCi/L					1	D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	09/04/08 05:02/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	10/28/08 18:47/eli-c
Barium	ND	mg/L		0.1			2	E200.7	09/02/08 19:47/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	09/04/08 05:02/eli-c
Boron	ND	mg/L		0.1			2	E200.7	09/02/08 19:47/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	09/04/08 05:02/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	09/02/08 19:47/eli-c
Copper	ND	mg/L		0.01			2	E200.7	09/02/08 19:47/eli-c
Iron	0.07	mg/L		0.03			2	E200.7	09/02/08 19:47/eli-c
Lead	ND	mg/L		0.001			1	E200.8	09/04/08 05:02/eli-c
Manganese	0.06	mg/L		0.01			2	E200.7	09/02/08 19:47/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	08/29/08 14:06/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	09/02/08 19:47/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	09/02/08 19:47/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	09/04/08 05:02/eli-c
Silver	ND	mg/L		0.005			1	E200.8	09/04/08 18:49/eli-c
Strontium	1.2	mg/L		0.1			2	E200.7	09/02/08 19:47/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	09/04/08 05:02/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	09/04/08 05:02/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	09/02/08 19:47/eli-c
DATA QUALITY									
A/C Balance (± 5)	2.84	%					1	A1030 E	11/04/08 00:00/jmh
Anions	13.1	meq/L					1	A1030 E	11/04/08 00:00/jmh
Cations	13.9	meq/L					1	A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	874	mg/L					1	A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960						1	A1030 E	11/04/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: R08080332-009
 Client Sample ID: DewBurd BLK01

Report Date: 11/14/08
 Collection Date: 08/20/08 17:25
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	08/21/08 15:33/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/21/08 15:33/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	08/21/08 15:33/mb
Calcium	ND	mg/L		0.5		2	E200.7	09/02/08 17:25/eli-c
Chloride	ND	mg/L		1		1	E300.0	08/23/08 01:48/jmh
Fluoride	0.1	mg/L		0.1		1	E300.0	08/23/08 01:48/jmh
Magnesium	ND	mg/L		0.5		2	E200.7	09/02/08 17:25/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	08/21/08 18:42/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	08/23/08 01:48/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	08/23/08 01:48/jmh
Potassium	ND	mg/L		0.5		2	E200.7	09/02/08 17:25/eli-c
Silica	ND	mg/L		0.5		2	E200.7	09/02/08 17:25/eli-c
Sodium	ND	mg/L	D	2		2	E200.7	09/02/08 17:25/eli-c
Sulfate	1	mg/L		1		1	E300.0	08/23/08 01:48/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5.2	umhos/cm		5.0		1	A2510 B	08/22/08 12:07/tb
Oxidation-Reduction Potential	370	mV				1	A2580 B	08/25/08 00:00/jmh
pH	5.39	s.u.		0.01		1	A4500-H B	08/22/08 14:22/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		5		1	A2540 C	08/25/08 16:07/mb
- SAR calculations may not be appropriate for near blank results.								
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	09/02/08 17:25/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	09/04/08 05:09/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/02/08 17:25/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/02/08 17:25/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/04/08 05:09/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/02/08 17:25/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/04/08 05:09/eli-c
Iron	ND	mg/L		0.03		2	E200.7	09/02/08 17:25/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/04/08 05:09/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	09/02/08 17:25/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/04/08 05:09/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	09/02/08 17:25/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/02/08 17:25/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	09/01/08 12:15/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/05/08 02:04/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080332-009
 Client Sample ID: DewBurd BLK01

Report Date: 11/14/08
 Collection Date: 08/20/08 17:25
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	09/05/08 02:04/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	09/04/08 05:09/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/04/08 05:09/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/02/08 17:25/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/11/08 00:49/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/08 16:47/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	0.1	pCi/L	U			1	E900.0	09/25/08 02:03/eli-c
Gross Alpha precision (±)	0.6	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha MDC	0.9	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta	-4	pCi/L	U			1	E900.0	09/25/08 02:03/eli-c
Gross Beta precision (±)	1.5	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta MDC	2.6	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Lead 210	-0.2	pCi/L	U			1	E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.4	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1	RMO-3008	09/03/08 19:15/eli-c
Radium 226	0.02	pCi/L	U			1	E903.0	09/21/08 07:43/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	09/21/08 07:43/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	09/21/08 12:59/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	09/21/08 12:59/eli-c
Gross Gamma	1100	pCi/L		20		1	E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	190	pCi/L				1	E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-8	pCi/L	U			1	E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.5	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.33	pCi/L				1	RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	09/17/08 17:18/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	09/17/08 17:18/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08080332-009
 Client Sample ID: DewBurd BLK01

Report Date: 11/14/08
 Collection Date: 08/20/08 17:25
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 MDC	0.5	pCi/L				1 E903.0	09/17/08 17:18/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1 E907.0	09/29/08 13:22/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1 E907.0	09/29/08 13:22/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	192	pCi/L		100		1 D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	82.9	pCi/L				1 D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	09/04/08 05:16/eli-c
Arsenic	ND	mg/L		0.001		1 E200.8	09/04/08 05:16/eli-c
Barium	ND	mg/L		0.1		2 E200.7	09/02/08 19:51/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	09/04/08 05:16/eli-c
Boron	ND	mg/L		0.1		2 E200.7	09/02/08 19:51/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	09/04/08 05:16/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	09/02/08 19:51/eli-c
Copper	ND	mg/L		0.01		2 E200.7	09/02/08 19:51/eli-c
Iron	ND	mg/L		0.03		2 E200.7	09/02/08 19:51/eli-c
Lead	ND	mg/L		0.001		1 E200.8	09/04/08 05:16/eli-c
Manganese	ND	mg/L		0.01		2 E200.7	09/02/08 19:51/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	08/29/08 14:09/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	09/02/08 19:51/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	09/02/08 19:51/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	09/04/08 05:16/eli-c
Silver	ND	mg/L		0.005		1 E200.8	09/04/08 18:56/eli-c
Strontium	ND	mg/L		0.1		2 E200.7	09/02/08 19:51/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	09/04/08 05:16/eli-c
Uranium	ND	mg/L		0.0003		1 E200.8	09/04/08 05:16/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	09/02/08 19:51/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: 11/14/08
 Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080821A-ALK-SEL-W		
Sample ID: R08080332-002AMS	Sample Matrix Spike				Run: PH_COND1-R_080821A			08/21/08 14:51	
Alkalinity, Total as CaCO3	262	mg/L	5.0	96	80	120			
Sample ID: R08080332-002AMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_080821A			08/21/08 14:53	
Alkalinity, Total as CaCO3	264	mg/L	5.0	98	80	120	0.8	10	
Method: A2510 B							Batch: 080822_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080822	Laboratory Control Sample				Run: BAL-7-R_080822A			08/22/08 11:38	
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: LCS1-1_080822	Laboratory Control Sample				Run: BAL-7-R_080822A			08/22/08 11:40	
Conductivity @ 25 C	162	umhos/cm	5.0	108	90	110			
Sample ID: LCS2-1_080822	Laboratory Control Sample				Run: BAL-7-R_080822A			08/22/08 11:41	
Conductivity @ 25 C	5010	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_080822	Method Blank				Run: BAL-7-R_080822A			08/22/08 11:42	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R08080332-002ADUP	Sample Duplicate				Run: BAL-7-R_080822A			08/22/08 11:59	
Conductivity @ 25 C	3060	umhos/cm	5.0				4.7	10	
Method: A2540 C							Batch: 080825A-SLDS-TDS-W		
Sample ID: LCS1_080825A	Laboratory Control Sample				Run: BAL-4-R_080825B			08/25/08 15:44	
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	103	90	110			
Sample ID: MBLK1_080825A	Method Blank				Run: BAL-4-R_080825B			08/25/08 15:46	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R08080332-005AMS	Sample Matrix Spike				Run: BAL-4-R_080825B			08/25/08 16:04	
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	112	80	120			
Sample ID: R08080332-005AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080825B			08/25/08 16:05	
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	111	80	120	0.2	10	
Method: A2580 B							Batch: 080825-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND1-R_080825A			08/25/08 00:00	
Oxidation-Reduction Potential	470	mV		98	95	105			
Sample ID: R08080332-005F	Sample Duplicate				Run: PH_COND1-R_080825A			08/25/08 00:00	
Oxidation-Reduction Potential	210	mV					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: 11/14/08
 Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080901A		
Sample ID: MBLK	Method Blank								
Selenium	0.0008	mg/L	6E-05						Run: SUB-C106784 09/01/08 11:25
Sample ID: C08081048-003AMS	Sample Matrix Spike								
Selenium	0.071	mg/L	0.0010	81	85	115			Run: SUB-C106784 09/01/08 11:46 S
Sample ID: C08081048-003AMSD	Sample Matrix Spike Duplicate								
Selenium	0.073	mg/L	0.0010	86	85	115	3.5	15	Run: SUB-C106784 09/01/08 11:48
Sample ID: 288-92-2	Laboratory Control Sample								
Selenium	0.050	mg/L	0.0010	99	90	110			Run: SUB-C106784 09/01/08 11:50
Sample ID: R08080332-009E	Sample Matrix Spike								
Selenium	0.042	mg/L	0.0010	84	85	115			Run: SUB-C106784 09/01/08 12:17 S
Sample ID: R08080332-009E	Sample Matrix Spike Duplicate								
Selenium	0.044	mg/L	0.0010	88	85	115	4.5	15	Run: SUB-C106784 09/01/08 12:19
Method: A3114 B							Batch: C_SEIV3114-080831A		
Sample ID: MBLK	Method Blank								
Selenium-IV	0.0005	mg/L	6E-05						Run: SUB-C106776 08/31/08 15:53
Sample ID: C08081048-003AMS	Sample Matrix Spike								
Selenium-IV	0.052	mg/L	0.0010	87	85	115			Run: SUB-C106776 08/31/08 16:12
Sample ID: C08081048-003AMSD	Sample Matrix Spike Duplicate								
Selenium-IV	0.056	mg/L	0.0010	96	85	115	7.7	10	Run: SUB-C106776 08/31/08 16:20
Sample ID: 288-92-2	Laboratory Control Sample								
Selenium-IV	0.050	mg/L	0.0010	100	90	110			Run: SUB-C106776 08/31/08 16:22
Sample ID: R08080332-009E	Sample Matrix Spike								
Selenium-IV	0.045	mg/L	0.0010	89	85	115			Run: SUB-C106776 08/31/08 16:49
Sample ID: R08080332-009E	Sample Matrix Spike Duplicate								
Selenium-IV	0.046	mg/L	0.0010	92	85	115	2.5	10	Run: SUB-C106776 08/31/08 16:52
Method: A4500-H B							Batch: 080822_1_PH-W		
Sample ID: LCS_pH-1_080822	Laboratory Control Sample								
pH	6.87	s.u.	0.010	100	98.55	101.45			Run: BAL-7-R_080822B 08/22/08 13:46
Sample ID: R08080332-003ADUP	Sample Duplicate								
pH	7.83	s.u.	0.010				0.1	1.25	Run: BAL-7-R_080822B 08/22/08 14:07
Sample ID: R08080332-009ADUP	Sample Duplicate								
pH	5.37	s.u.	0.010				0.4	1.25	Run: BAL-7-R_080822B 08/22/08 14:23

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: 11/14/08
Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-08-21_2_NH3_01		
Sample ID: MBLK-2	Method Blank								
Nitrogen, Ammonia as N	ND	mg/L	0.01						
						Run: TECHAA2-R_080821A			08/21/08 14:35
Sample ID: LFB-3	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.26	mg/L	0.10	104	90	110			08/21/08 14:36
						Run: TECHAA2-R_080821A			08/21/08 14:37
Sample ID: LFB-4	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.25	mg/L	0.10	101	90	110			08/21/08 14:37
						Run: TECHAA2-R_080821A			08/21/08 18:34
Sample ID: R08080332-003BMS	Sample Matrix Spike								
Nitrogen, Ammonia as N	0.26	mg/L	0.10	93	80	120			08/21/08 18:34
						Run: TECHAA2-R_080821A			08/21/08 18:35
Sample ID: R08080332-003BMSD	Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N	0.26	mg/L	0.10	92	80	120	0.8	10	08/21/08 18:35
Method: D5072-92							Batch: C_R106600		
Sample ID: MB-R106600	Method Blank								
Radon 222	40	pCi/L							08/25/08 17:46
						Run: SUB-C106600			U
Sample ID: LCS-R106600	Laboratory Control Sample								
Radon 222	300	pCi/L	100	85	70	130			08/25/08 17:46
						Run: SUB-C106600			08/25/08 17:46
Sample ID: R08080332-003G	Sample Duplicate								
Radon 222	1460	pCi/L	100				6.4	30	08/25/08 17:46

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

Report Date: 11/14/08

Project: Edgemont

Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19595		
Sample ID: MB-19595	Method Blank			Run: SUB-C106856			09/03/08 02:17		
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						
Strontium	ND	mg/L	0.0004						
Zinc	ND	mg/L	0.001						
Sample ID: LCS3-19595	Laboratory Control Sample			Run: SUB-C106856			09/03/08 02:21		
Barium	0.509	mg/L	0.10	102	85	115			
Boron	0.520	mg/L	0.10	104	85	115			
Chromium	0.520	mg/L	0.050	104	85	115			
Copper	0.518	mg/L	0.010	104	85	115			
Iron	2.75	mg/L	0.030	110	85	115			
Manganese	2.58	mg/L	0.010	103	85	115			
Molybdenum	0.508	mg/L	0.10	102	85	115			
Nickel	0.523	mg/L	0.050	105	85	115			
Strontium	0.487	mg/L	0.10	97	85	115			
Zinc	0.522	mg/L	0.010	104	85	115			
Sample ID: C08080990-003CMS3	Sample Matrix Spike			Run: SUB-C106856			09/03/08 02:41		
Barium	0.678	mg/L	0.10	100	70	130			
Boron	0.608	mg/L	0.10	105	70	130			
Chromium	0.524	mg/L	0.050	105	70	130			
Copper	0.522	mg/L	0.010	104	70	130			
Iron	4.25	mg/L	0.030	83	70	130			
Manganese	2.61	mg/L	0.010	102	70	130			
Molybdenum	0.520	mg/L	0.10	104	70	130			
Nickel	0.520	mg/L	0.050	104	70	130			
Strontium	0.968	mg/L	0.10	100	70	130			
Zinc	0.531	mg/L	0.010	102	70	130			
Sample ID: C08080990-003CMSD3	Sample Matrix Spike Duplicate			Run: SUB-C106856			09/03/08 02:45		
Barium	0.702	mg/L	0.10	105	70	130	3.5	20	
Boron	0.625	mg/L	0.10	108	70	130	2.8	20	
Chromium	0.531	mg/L	0.050	106	70	130	1.3	20	
Copper	0.530	mg/L	0.010	106	70	130	1.5	20	
Iron	4.47	mg/L	0.030	92	70	130	5.2	20	
Manganese	2.65	mg/L	0.010	104	70	130	1.6	20	
Molybdenum	0.532	mg/L	0.10	106	70	130	2.3	20	
Nickel	0.523	mg/L	0.050	105	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: 11/14/08
 Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19595		
Sample ID: C08080990-003CMSD3	Sample Matrix Spike Duplicate			Run: SUB-C106856			09/03/08 02:45		
Strontium	0.962	mg/L	0.10	98	70	130	0.6	20	
Zinc	0.546	mg/L	0.010	105	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: 11/14/08
Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R106856		
Sample ID: MB-080902A	Method Blank		Run: SUB-C106856				09/02/08 14:38		
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.008						
Cadmium	ND	mg/L	0.0008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Copper	ND	mg/L	0.005						
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						
Strontium	ND	mg/L	0.0002						
Vanadium	0.03	mg/L	0.003						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080902A	Laboratory Fortified Blank		Run: SUB-C106856				09/02/08 14:42		
Silica	0.38	mg/L	0.10	96	85	125			
Aluminum	1.00	mg/L	0.10	100	85	125			
Barium	1.0	mg/L	0.10	101	85	125			
Boron	0.96	mg/L	0.10	96	85	125			
Cadmium	1.0	mg/L	0.010	101	85	125			
Calcium	54	mg/L	0.50	107	85	125			
Chromium	1.0	mg/L	0.050	103	85	125			
Copper	1.0	mg/L	0.010	103	85	125			
Iron	1.1	mg/L	0.030	106	85	125			
Magnesium	53	mg/L	0.50	107	85	125			
Manganese	1.0	mg/L	0.010	102	85	125			
Molybdenum	1.00	mg/L	0.10	100	85	125			
Nickel	1.0	mg/L	0.050	102	85	125			
Potassium	45	mg/L	0.50	91	85	125			
Sodium	50	mg/L	0.77	100	85	125			
Strontium	1.0	mg/L	0.10	102	85	125			
Vanadium	1.1	mg/L	0.10	109	85	125			
Zinc	1.0	mg/L	0.010	103	85	125			
Sample ID: C08081029-002CMS2	Sample Matrix Spike		Run: SUB-C106856				09/02/08 17:49		
Aluminum	2.06	mg/L	0.10	102	70	130			
Barium	2.10	mg/L	0.10	104	70	130			
Boron	2.27	mg/L	0.10	105	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/14/08

Project: Edgemont

Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R106856		
Sample ID: C08081029-002CMS2	Sample Matrix Spike			Run: SUB-C106856			09/02/08 17:49		
Cadmium	2.09	mg/L	0.010	104	70	130			
Chromium	2.11	mg/L	0.050	106	70	130			
Copper	2.10	mg/L	0.010	105	70	130			
Iron	24.2	mg/L	0.030		70	130			A
Manganese	3.64	mg/L	0.010	101	70	130			
Molybdenum	2.05	mg/L	0.10	102	70	130			
Nickel	2.07	mg/L	0.050	104	70	130			
Strontium	9.22	mg/L	0.10	98	70	130			
Vanadium	2.03	mg/L	0.10	102	70	130			
Zinc	2.11	mg/L	0.010	105	70	130			
Calcium	580	mg/L	1.0		70	130			A
Magnesium	252	mg/L	1.0	105	70	130			
Potassium	114	mg/L	1.0	93	70	130			
Silica	2.77	mg/L	0.10	67	70	130			S
Sodium	278	mg/L	1.5	106	70	130			
Sample ID: C08081029-002CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C106856			09/02/08 17:53		
Aluminum	2.05	mg/L	0.10	101	70	130	0.7	20	
Barium	2.09	mg/L	0.10	104	70	130	0.4	20	
Boron	2.27	mg/L	0.10	105	70	130	0	20	
Cadmium	2.02	mg/L	0.010	101	70	130	3.1	20	
Chromium	2.10	mg/L	0.050	105	70	130	0.7	20	
Copper	2.08	mg/L	0.010	104	70	130	0.9	20	
Iron	23.6	mg/L	0.030		70	130	2.3	20	A
Manganese	3.57	mg/L	0.010	98	70	130	1.8	20	
Molybdenum	2.07	mg/L	0.10	103	70	130	0.8	20	
Nickel	2.05	mg/L	0.050	102	70	130	1.2	20	
Strontium	9.00	mg/L	0.10	87	70	130	2.4	20	
Vanadium	2.03	mg/L	0.10	101	70	130	0.2	20	
Zinc	2.11	mg/L	0.010	105	70	130	0	20	
Calcium	569	mg/L	1.0		70	130	2	20	A
Magnesium	247	mg/L	1.0	101	70	130	1.7	20	
Potassium	113	mg/L	1.0	91	70	130	1.1	20	
Silica	2.80	mg/L	0.10	71	70	130	1	20	
Sodium	278	mg/L	1.5	106	70	130	0	20	
Sample ID: R08080332-001C	Sample Matrix Spike			Run: SUB-C106856			09/02/08 16:00		
Aluminum	2.05	mg/L	0.10	102	70	130			
Barium	2.03	mg/L	0.10	101	70	130			
Boron	1.97	mg/L	0.10	98	70	130			
Cadmium	2.04	mg/L	0.010	102	70	130			
Chromium	2.06	mg/L	0.050	103	70	130			
Copper	2.05	mg/L	0.010	102	70	130			

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/14/08

Project: Edgemont

Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R106856		
Sample ID: R08080332-001C	Sample Matrix Spike			Run: SUB-C106856			09/02/08 16:00		
Iron	2.14	mg/L	0.030	105	70	130			
Manganese	2.10	mg/L	0.010	103	70	130			
Molybdenum	1.98	mg/L	0.10	99	70	130			
Nickel	2.05	mg/L	0.050	103	70	130			
Strontium	3.22	mg/L	0.10	100	70	130			
Vanadium	2.17	mg/L	0.10	109	70	130			
Zinc	2.08	mg/L	0.010	104	70	130			
Calcium	157	mg/L	1.0	106	70	130			
Magnesium	129	mg/L	1.0	107	70	130			
Potassium	102	mg/L	1.0	90	70	130			
Silica	4.85	mg/L	0.10		70	130			A
Sodium	300	mg/L	1.5	104	70	130			
Silicon	2.27	mg/L	0.047	113	70	130			
Sample ID: R08080332-001C	Sample Matrix Spike Duplicate			Run: SUB-C106856			09/02/08 16:04		
Aluminum	2.09	mg/L	0.10	105	70	130	2.1	20	
Barium	2.05	mg/L	0.10	102	70	130	0.7	20	
Boron	2.02	mg/L	0.10	101	70	130	2.8	20	
Cadmium	2.03	mg/L	0.010	102	70	130	0.4	20	
Chromium	2.11	mg/L	0.050	105	70	130	2	20	
Copper	2.10	mg/L	0.010	105	70	130	2.4	20	
Iron	2.20	mg/L	0.030	108	70	130	2.8	20	
Manganese	2.13	mg/L	0.010	104	70	130	1.3	20	
Molybdenum	2.02	mg/L	0.10	101	70	130	1.9	20	
Nickel	2.07	mg/L	0.050	104	70	130	1	20	
Strontium	3.29	mg/L	0.10	104	70	130	2.4	20	
Vanadium	2.22	mg/L	0.10	111	70	130	2	20	
Zinc	2.11	mg/L	0.010	105	70	130	1.4	20	
Calcium	162	mg/L	1.0	110	70	130	2.8	20	
Magnesium	132	mg/L	1.0	110	70	130	2.5	20	
Potassium	101	mg/L	1.0	89	70	130	1.2	20	
Silica	4.93	mg/L	0.10		70	130	1.5	20	A
Sodium	294	mg/L	1.5	98	70	130	2.1	20	
Silicon	2.30	mg/L	0.047	115	70	130	1.5	20	
Method: E200.7_8							Batch: C_19720		
Sample ID: MB-19720	Method Blank			Run: SUB-C107379			09/10/08 23:44		
Uranium	2E-07	mg/L							
Sample ID: LCS1-19720	Laboratory Control Sample			Run: SUB-C107379			09/10/08 23:48		
Uranium	5.46E-05	mg/L	0.00030	103	80	120			

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19595		
Sample ID: MB-19595	Method Blank			Run: SUB-C106973			09/03/08 22:42		
Antimony	ND	mg/L	0.0003						
Arsenic	0.007	mg/L							
Beryllium	ND	mg/L	0.0003						
Cadmium	ND	mg/L	4E-05						
Lead	ND	mg/L	5E-05						
Selenium	ND	mg/L	0.0003						
Silver	ND	mg/L	0.002						
Thallium	ND	mg/L	0.0001						
Uranium	ND	mg/L	5E-05						
Sample ID: LCS3-19595	Laboratory Control Sample			Run: SUB-C106973			09/03/08 22:48		
Antimony	0.543	mg/L	0.050	109	85	115			
Arsenic	0.535	mg/L	0.0010	106	85	115			
Beryllium	0.261	mg/L	0.010	104	85	115			
Cadmium	0.273	mg/L	0.010	109	85	115			
Lead	0.509	mg/L	0.050	102	85	115			
Selenium	0.528	mg/L	0.0032	106	85	115			
Silver	0.0495	mg/L	0.016	99	85	115			
Thallium	0.502	mg/L	0.10	100	85	115			
Uranium	0.498	mg/L	0.00048	100	85	115			
Sample ID: C08080990-003CMS3	Sample Matrix Spike			Run: SUB-C106973			09/04/08 00:44		
Antimony	0.521	mg/L	0.050	104	70	130			
Arsenic	0.519	mg/L	0.0010	101	70	130			
Beryllium	0.251	mg/L	0.010	100	70	130			
Cadmium	0.262	mg/L	0.010	105	70	130			
Lead	0.493	mg/L	0.050	98	70	130			
Selenium	0.506	mg/L	0.0032	101	70	130			
Silver	0.0475	mg/L	0.016	95	70	130			
Thallium	0.483	mg/L	0.10	97	70	130			
Uranium	0.486	mg/L	0.00048	96	70	130			
Sample ID: C08080990-003CMSD3	Sample Matrix Spike Duplicate			Run: SUB-C106973			09/04/08 00:51		
Antimony	0.516	mg/L	0.050	103	70	130	0.8	20	
Arsenic	0.552	mg/L	0.0010	108	70	130	6.1	20	
Beryllium	0.251	mg/L	0.010	101	70	130	0.3	20	
Cadmium	0.260	mg/L	0.010	104	70	130	0.9	20	
Lead	0.485	mg/L	0.050	96	70	130	1.7	20	
Selenium	0.553	mg/L	0.0032	111	70	130	8.9	20	
Silver	0.0490	mg/L	0.016	98	70	130	3.1	20	
Thallium	0.485	mg/L	0.10	97	70	130	0.2	20	
Uranium	0.479	mg/L	0.00048	95	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/14/08
 Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19595		
Sample ID: MB-19595	Method Blank				Run: SUB-C109482			10/18/08 14:16	
Arsenic	0.003	mg/L	5E-05						
Lead	ND	mg/L	5E-05						
Selenium	0.0007	mg/L	0.0002						
Uranium	ND	mg/L	3E-05						
Method: E200.8							Batch: C_19720		
Sample ID: C08081244-005CMS4	Post Digestion Spike				Run: SUB-C107379			09/11/08 02:12	
Uranium	0.0135	mg/L	0.00030	101	70	130			
Sample ID: C08081244-005CMSD4	Post Digestion Spike Duplicate				Run: SUB-C107379			09/11/08 02:16	
Uranium	0.0135	mg/L	0.00030	101	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: 11/14/08
 Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R106973		
Sample ID: LRB	Method Blank		Run: SUB-C106973			09/03/08 13:38			
Antimony	0.0001	mg/L	4E-06						
Arsenic	ND	mg/L	4E-05						
Beryllium	ND	mg/L	4E-06						
Cadmium	ND	mg/L	3E-06						
Copper	ND	mg/L	3E-05						
Lead	ND	mg/L	3E-06						
Mercury	ND	mg/L	1E-05						
Selenium	ND	mg/L	0.0001						
Thallium	ND	mg/L	4E-06						
Uranium	3E-06	mg/L	2E-06						
Vanadium	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C106973			09/03/08 13:45			
Antimony	0.0553	mg/L	0.0010	110	85	115			
Arsenic	0.0552	mg/L	0.0010	110	85	115			
Beryllium	0.0539	mg/L	0.0010	108	85	115			
Cadmium	0.0553	mg/L	0.0010	111	85	115			
Copper	0.0559	mg/L	0.0010	112	85	115			
Lead	0.0547	mg/L	0.0010	109	85	115			
Mercury	0.00540	mg/L	0.0010	108	85	115			
Selenium	0.0559	mg/L	0.0010	112	85	115			
Thallium	0.0518	mg/L	0.0010	104	85	115			
Uranium	0.0530	mg/L	0.00030	106	85	115			
Vanadium	0.0540	mg/L	0.0010	108	85	115			
Sample ID: R08080332-009D	Post Digestion Spike		Run: SUB-C106973			09/04/08 05:22			
Antimony	0.0539	mg/L	0.050	108	70	130			
Arsenic	0.0549	mg/L	0.0010	110	70	130			
Beryllium	0.0565	mg/L	0.010	113	70	130			
Cadmium	0.0545	mg/L	0.010	109	70	130			
Copper	0.0544	mg/L	0.010	109	70	130			
Lead	0.0515	mg/L	0.050	103	70	130			
Mercury	0.00532	mg/L	0.0010	106	70	130			
Selenium	0.0590	mg/L	0.0010	118	70	130			
Thallium	0.0508	mg/L	0.10	102	70	130			
Uranium	0.0467	mg/L	0.00030	93	70	130			
Vanadium	0.0528	mg/L	0.10	106	70	130			
Sample ID: R08080332-009D	Post Digestion Spike Duplicate		Run: SUB-C106973			09/04/08 05:57			
Antimony	0.0538	mg/L	0.050	108	70	130	0.1	20	
Arsenic	0.0544	mg/L	0.0010	109	70	130	0.9	20	
Beryllium	0.0582	mg/L	0.010	116	70	130	2.9	20	
Cadmium	0.0546	mg/L	0.010	109	70	130	0.3	20	
Copper	0.0549	mg/L	0.010	110	70	130	1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/14/08

Project: Edgemont

Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R106973		
Sample ID: R08080332-009D	Post Digestion Spike Duplicate			Run: SUB-C106973			09/04/08 05:57		
Lead	0.0516	mg/L	0.050	103	70	130	0.1	20	
Mercury	0.00537	mg/L	0.0010	107	70	130	0.9	20	
Selenium	0.0605	mg/L	0.0010	121	70	130	2.5	20	
Thallium	0.0507	mg/L	0.10	101	70	130	0	20	
Uranium	0.0467	mg/L	0.00030	93	70	130	0	20	
Vanadium	0.0535	mg/L	0.10	107	70	130	0	20	
Method: E200.8							Batch: C_R107055		
Sample ID: LRB	Method Blank			Run: SUB-C107055			09/04/08 14:04		
Silver	2E-05	mg/L	7E-06						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C107055			09/04/08 14:11		
Silver	0.0202	mg/L	0.0010	101	85	115			
Sample ID: R08080332-009D	Post Digestion Spike			Run: SUB-C107055			09/04/08 19:03		
Silver	0.0177	mg/L	0.010	89	70	130			
Thorium 232	0.0496	mg/L	0.0010	99	70	130			
Sample ID: R08080332-009D	Post Digestion Spike Duplicate			Run: SUB-C107055			09/04/08 19:10		
Silver	0.0169	mg/L	0.010	85	70	130	4.8	20	
Thorium 232	0.0504	mg/L	0.0010	101	70	130	1.7	20	
Sample ID: C08080940-001BMS4	Post Digestion Spike			Run: SUB-C107055			09/05/08 02:45		
Silver	0.0152	mg/L	0.010	76	70	130			
Thorium 232	0.0541	mg/L	0.0010	108	70	130			
Sample ID: C08080940-001BMSD4	Post Digestion Spike Duplicate			Run: SUB-C107055			09/05/08 02:52		
Silver	0.0176	mg/L	0.010	88	70	130	15	20	
Thorium 232	0.0540	mg/L	0.0010	108	70	130	0.2	20	
Sample ID: LRB	Method Blank			Run: SUB-C107055			09/04/08 14:04		
Thorium 232	ND	mg/L	9E-06						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C107055			09/04/08 14:11		
Thorium 232	0.0486	mg/L	0.0010	97	85	115			

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R109913		
Sample ID: LRB	Method Blank								Run: SUB-C109913 10/27/08 12:28
Arsenic	ND	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank								Run: SUB-C109913 10/27/08 12:33
Arsenic	0.0513	mg/L	0.0010	103	85	115			
Sample ID: C08090704-001DMS4	Post Digestion Spike								Run: SUB-C109913 10/27/08 13:58
Arsenic	0.0525	mg/L	0.0010	101	70	130			
Sample ID: C08090704-001DMSD4	Post Digestion Spike Duplicate								Run: SUB-C109913 10/27/08 14:04
Arsenic	0.0521	mg/L	0.0010	100	70	130	0.7	20	
Method: E200.8							Batch: C_R109991		
Sample ID: LRB	Method Blank								Run: SUB-C109991 10/28/08 12:02
Arsenic	0.0001	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank								Run: SUB-C109991 10/28/08 12:08
Arsenic	0.0516	mg/L	0.0010	103	85	115			
Sample ID: C08100151-026BMS4	Post Digestion Spike								Run: SUB-C109991 10/28/08 19:35
Arsenic	0.502	mg/L	0.0010	100	70	130			
Sample ID: C08100151-026BMSD4	Post Digestion Spike Duplicate								Run: SUB-C109991 10/28/08 19:40
Arsenic	0.496	mg/L	0.0010	99	70	130	1.1	20	
Method: E245.1							Batch: B_34292		
Sample ID: MB-34292	Method Blank								Run: SUB-B116583 08/28/08 07:30
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-34292	Laboratory Fortified Blank								Run: SUB-B116583 08/28/08 07:35
Mercury	0.0019	mg/L	0.0010	94	85	115			
Sample ID: B08082232-005FMS	Sample Matrix Spike								Run: SUB-B116583 08/28/08 08:41
Mercury	0.0017	mg/L	0.0010	87	70	130			
Sample ID: B08082232-005FMSD	Sample Matrix Spike Duplicate								Run: SUB-B116583 08/28/08 08:44
Mercury	0.0020	mg/L	0.0010	99	70	130	12	30	
Sample ID: R08080295-006F	Sample Matrix Spike								Run: SUB-B116583 08/28/08 07:40
Mercury	0.0022	mg/L	0.0010	111	70	130			
Sample ID: R08080295-006F	Sample Matrix Spike Duplicate								Run: SUB-B116583 08/28/08 07:42
Mercury	0.0024	mg/L	0.0010	118	70	130	5.7	30	

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/14/08
 Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: B_34345		
Sample ID: MB-34345	Method Blank					Run: SUB-B116687	08/29/08 13:08		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-34345	Laboratory Fortified Blank					Run: SUB-B116687	08/29/08 13:10		
Mercury	0.0019	mg/L	0.0010	97	85	115			
Sample ID: B08082181-001BMS	Sample Matrix Spike					Run: SUB-B116687	08/29/08 13:14		
Mercury	0.0019	mg/L	0.00020	97	70	130			
Sample ID: B08082181-001BMSD	Sample Matrix Spike Duplicate					Run: SUB-B116687	08/29/08 13:17		
Mercury	0.0018	mg/L	0.00020	90	70	130	6.9	10	
Method: E245.1							Analytical Run: SUB-B116583		
Sample ID: QCS	Initial Calibration Verification Standard						08/28/08 07:20		
Mercury	0.0020	mg/L	0.0010	98	90	110			
Method: E245.1							Analytical Run: SUB-B116687		
Sample ID: QCS	Initial Calibration Verification Standard						08/29/08 12:51		
Mercury	0.0019	mg/L	0.0010	96	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: 11/14/08
Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R36997		
Sample ID: LFB0808223153-3	Laboratory Fortified Blank			Run: DIONEX_080822A			08/22/08 18:41		
Chloride	4.87	mg/L	0.50	97	90	110			
Fluoride	2.08	mg/L	0.10	104	90	110			
Nitrogen, Nitrate as N	2.39	mg/L	0.10	96	90	110			
Nitrogen, Nitrite as N	2.47	mg/L	0.10	99	90	110			
Sulfate	14.7	mg/L	1.0	98	90	110			
Sample ID: LFB0808223153-4	Laboratory Fortified Blank			Run: DIONEX_080822A			08/22/08 18:58		
Chloride	4.87	mg/L	0.50	97	90	110			
Fluoride	2.07	mg/L	0.10	103	90	110			
Nitrogen, Nitrate as N	2.37	mg/L	0.10	95	90	110			
Nitrogen, Nitrite as N	2.47	mg/L	0.10	99	90	110			
Sulfate	14.7	mg/L	1.0	98	90	110			
Sample ID: R08080332-001AMS	Sample Matrix Spike			Run: DIONEX_080822A			08/22/08 19:31		
Chloride	252	mg/L	5.4	90	80	120			
Fluoride	103	mg/L	0.56	98	80	120			
Nitrogen, Nitrate as N	118	mg/L	1.3	94	80	120			
Nitrogen, Nitrite as N	123	mg/L	2.9	98	80	120			
Sulfate	1100	mg/L	3.4	90	80	120			
Sample ID: R08080332-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080822A			08/22/08 19:47		
Chloride	256	mg/L	5.4	91	80	120	1.7	10	
Fluoride	105	mg/L	0.56	99	80	120	1.6	10	
Nitrogen, Nitrate as N	120	mg/L	1.3	96	80	120	1.3	10	
Nitrogen, Nitrite as N	124	mg/L	2.9	99	80	120	1.5	10	
Sulfate	1110	mg/L	3.4	92	80	120	0.9	10	
Sample ID: R08080332-005AMS	Sample Matrix Spike			Run: DIONEX_080822A			08/22/08 22:48		
Chloride	256	mg/L	5.4	92	80	120			
Fluoride	105	mg/L	0.56	101	80	120			
Nitrogen, Nitrate as N	120	mg/L	1.3	96	80	120			
Nitrogen, Nitrite as N	125	mg/L	2.9	100	80	120			
Sulfate	1170	mg/L	3.4	94	80	120			
Sample ID: R08080332-005AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080822A			08/22/08 23:04		
Chloride	256	mg/L	5.4	91	80	120	0.3	10	
Fluoride	105	mg/L	0.56	101	80	120	0	10	
Nitrogen, Nitrate as N	120	mg/L	1.3	96	80	120	0.1	10	
Nitrogen, Nitrite as N	124	mg/L	2.9	99	80	120	0.2	10	
Sulfate	1170	mg/L	3.4	93	80	120	0.6	10	
Sample ID: R08080332-009AMS	Sample Matrix Spike			Run: DIONEX_080822A			08/23/08 02:05		
Chloride	4.92	mg/L	0.50	91	80	120			
Fluoride	1.91	mg/L	0.10	90	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: 11/14/08
 Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R36997		
Sample ID: R08080332-009AMS	Sample Matrix Spike			Run: DIONEX_080822A			08/23/08 02:05		
Nitrogen, Nitrate as N	2.40	mg/L	0.10	96	80	120			
Nitrogen, Nitrite as N	2.49	mg/L	0.10	100	80	120			
Sulfate	14.7	mg/L	1.0	90	80	120			
Sample ID: R08080332-009AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080822A			08/23/08 02:21		
Chloride	4.91	mg/L	0.50	91	80	120	0.2	10	
Fluoride	1.90	mg/L	0.10	89	80	120	0.5	10	
Nitrogen, Nitrate as N	2.39	mg/L	0.10	96	80	120	0.4	10	
Nitrogen, Nitrite as N	2.48	mg/L	0.10	99	80	120	0.4	10	
Sulfate	14.7	mg/L	1.0	90	80	120	0.2	10	
Method: E900.0							Batch: C_GrAB-0526		
Sample ID: MB-GrAB-0526	Method Blank			Run: SUB-C108200			09/25/08 02:03		
Gross Alpha	-0.4	pCi/L							U
Gross Beta	-1	pCi/L							U
Sample ID: UNAT-GrAB-0526	Laboratory Control Sample			Run: SUB-C108200			09/25/08 02:03		
Gross Alpha	140	pCi/L		102	70	130			
Sample ID: R08080332-009H	Sample Matrix Spike			Run: SUB-C108200			09/25/08 02:03		
Gross Alpha	120	pCi/L		90	70	130			
Sample ID: R08080332-009H	Sample Matrix Spike Duplicate			Run: SUB-C108200			09/25/08 02:03		
Gross Alpha	150	pCi/L		110	70	130	20	15.7	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: Cs137-GrAB-0526	Laboratory Control Sample			Run: SUB-C108200			09/25/08 02:03		
Gross Beta	93	pCi/L		101	70	130			
Sample ID: R08080332-009H	Sample Matrix Spike			Run: SUB-C108200			09/25/08 14:09		
Gross Beta	73	pCi/L		82	70	130			
Sample ID: R08080332-009H	Sample Matrix Spike Duplicate			Run: SUB-C108200			09/25/08 14:09		
Gross Beta	97	pCi/L		107	70	130	28	16.3	R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									

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: 11/14/08
 Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R106893		
Sample ID: R08080332-007H Gross Gamma	Sample Duplicate ND pCi/L				Run: SUB-C106893		0	30	U
Sample ID: R08080332-009H Bismuth 214	Sample Duplicate 110 pCi/L		20		Run: SUB-C106893		38	30	R
Sample ID: MB-R106893 Gross Gamma	Method Blank ND pCi/L				Run: SUB-C106893				U
Sample ID: LCS-R106893 Cesium 137 Cobalt 60	Laboratory Control Sample 39000 pCi/L 49000 pCi/L		20 20	95 99	70 70	130 130			08/29/08 12:32 08/29/08 12:32
Method: E903.0							Batch: C_19720		
Sample ID: C08080968-001FMS Radium 226	Sample Matrix Spike 140 pCi/L			96	70	130			09/17/08 15:43
Sample ID: C08080968-001FMSD Radium 226	Sample Matrix Spike Duplicate 150 pCi/L			98	70	130	6.9	25.2	09/17/08 15:43
Sample ID: LCS-19720 Radium 226	Laboratory Control Sample 74 pCi/L			96	70	130			09/17/08 18:56
Sample ID: MB-19720 Radium 226	Method Blank -0.4 pCi/L				Run: SUB-C107779				09/17/08 18:56 U
Method: E903.0							Batch: C_RA226-3072		
Sample ID: C08081143-001EMS Radium 226	Sample Matrix Spike 15 pCi/L			94	70	130			09/21/08 10:44
Sample ID: C08081143-001EMSD Radium 226	Sample Matrix Spike Duplicate 14 pCi/L			84	70	130	10	25.1	09/21/08 12:14
Sample ID: MB-RA226-3072 Radium 226	Method Blank -0.04 pCi/L				Run: SUB-C108014				09/21/08 22:47 U
Sample ID: LCS-RA226-3072 Radium 226	Laboratory Control Sample 7.7 pCi/L			98	70	130			09/22/08 00:18

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: 11/14/08
Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R108747		
Sample ID: R08080332-0011 Thorium 230	Sample Matrix Spike 21.4	pCi/L	0.20	95	70	130			09/28/08 13:33
Sample ID: R08080332-0011 Thorium 230	Sample Matrix Spike Duplicate 25.8	pCi/L	0.20	111	70	130	19	40.7	09/28/08 13:33
Sample ID: LCS-19720 Thorium 230	Laboratory Control Sample 47.0	pCi/L	0.20	102	70	130			09/29/08 13:22
Sample ID: MB-19720 Thorium 230	Method Blank 0.6	pCi/L							09/29/08 13:22 U
Method: E907.0							Batch: C_RA-TH-ISO-0634		
Sample ID: LCS-RA-TH-ISO-0634 Thorium 230	Laboratory Control Sample 5.53	pCi/L	0.20	91	70	130			09/21/08 12:59
Sample ID: R08080332-004H Thorium 230	Sample Matrix Spike 11.2	pCi/L	0.20	92	70	130			09/21/08 12:59
Sample ID: R08080332-004H Thorium 230	Sample Matrix Spike Duplicate 10.8	pCi/L	0.20	88	70	130	4.4	40.6	09/21/08 12:59
Sample ID: MB-RA-TH-ISO-0634 Thorium 230	Method Blank 0.01	pCi/L							09/22/08 08:48 U
Method: E909.0M							Batch: C_19720		
Sample ID: R08080332-009I Lead 210	Sample Matrix Spike 240	pCi/L		89	70	130			09/12/08 10:37
Sample ID: R08080332-009I Lead 210	Sample Matrix Spike Duplicate 300	pCi/L		111	70	130	23	30	09/12/08 10:37
Sample ID: MB-R108784 Lead 210	Method Blank -6	pCi/L							09/12/08 10:37 U
Sample ID: LCS-R108784 Lead 210	Laboratory Control Sample 100	pCi/L		92	70	130			09/12/08 10:37

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/14/08
 Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R107511		
Sample ID: R08080332-005H	Sample Matrix Spike				Run: SUB-C107511			09/04/08 07:39	
Lead 210	410	pCi/L		70	70	130			
Sample ID: R08080332-005H	Sample Matrix Spike Duplicate				Run: SUB-C107511			09/04/08 07:39	
Lead 210	450	pCi/L		77	70	130	9.5	30	
Sample ID: MB-R107511	Method Blank				Run: SUB-C107511			09/04/08 07:39	
Lead 210	-3	pCi/L							U
Sample ID: LCS-R107511	Laboratory Control Sample				Run: SUB-C107511			09/04/08 07:39	
Lead 210	86	pCi/L		76	70	130			
Method: RMO-3008							Batch: C_19720		
Sample ID: C08081029-005IMS	Sample Matrix Spike				Run: SUB-C108077			09/15/08 14:35	
Polonium 210	36	pCi/L	1.0	83	70	130			
Sample ID: C08081029-005IMSD	Sample Matrix Spike Duplicate				Run: SUB-C108077			09/15/08 14:35	
Polonium 210	48	pCi/L	1.0	111	70	130	29	30	
Sample ID: LCS-R108077	Laboratory Control Sample				Run: SUB-C108077			09/15/08 14:35	
Polonium 210	81	pCi/L	1.0	95	70	130			
Sample ID: MB-R108077	Method Blank				Run: SUB-C108077			09/15/08 14:35	
Polonium 210	0.9	pCi/L							U
Method: RMO-3008							Batch: C_R107620		
Sample ID: C08081029-005HMS	Sample Matrix Spike				Run: SUB-C107620			09/03/08 19:15	
Polonium 210	79	pCi/L	1.0	93	70	130			
Sample ID: C08081029-005HMSD	Sample Matrix Spike Duplicate				Run: SUB-C107620			09/03/08 19:15	
Polonium 210	82	pCi/L	1.0	97	70	130	3.7	30	
Sample ID: LCS-R107620	Laboratory Control Sample				Run: SUB-C107620			09/03/08 19:15	
Polonium 210	44	pCi/L	1.0	102	70	130			
Sample ID: MB-R107620	Method Blank				Run: SUB-C107620			09/03/08 19:15	
Polonium 210	ND	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

PLEASE PRINT - Provide as much information as possible.

Company Name: **RESPEC** Project Name, PWS, Permit, Etc. **Power Fed DE** EPA/State Compliance: Yes No

Report Mail Address: **RESPEC** Contact Name: **Cory Foreman** Phone/Fax: **respec.com** Sampler: (Please Print) **Eric Kante**

Invoice Address: Invoice Contact & Phone: Purchase Order: Quote/Bottle Order:

State: **SD** Email: **Eric.Kante**

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

DW A2LA EDD/EDT (Electronic Data)

GSA POTW/WWT Format: _____

State: _____ LEVEL IV

Other: _____ NELAC

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)

1	2	3	4	5	6	7	8	9	10
Dev Burd GW 688	Dev Burd GW 680	Dev Burd GW 622	Dev Burd GW 615	Dev Burd GW 695	Dev Burd GW 696	Dev Burd GW 694	Dev Burd GW 697	Dev Burd GW 698	Dev Burd GW 601
8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08
10:07	10:23	12:59	13:26	14:20	15:10	15:45	17:10	17:25	17:25
W	W	W	W	W	W	W	W	W	W
MATRIX	MATRIX	MATRIX	MATRIX	MATRIX	MATRIX	MATRIX	MATRIX	MATRIX	MATRIX
Number of Containers: _____ Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other									

ANALYSIS REQUESTED

As per Quot

SEE ATTACHED Normal Turnaround (TAT)

RUSH

Contact EII prior to RUSH sample submittal for charges and scheduling - See Instruction Page

Comments:

Burdock West five
 Set 35
 Burdock Pump well
 Set 31
 TWA NW 20
 Set 32
 Set No. 2
 Set 39
 Pumphouse east
 Set 22
 Schoolhouse SE
 Set 40
 Schoolhouse NW
 Set 43
 Pumphouse west
 Set 45
 Set 28

LABORATORY USE ONLY

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

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

Signature: _____

Signature: _____

Signature: _____ Date/Time: _____

Signature: _____ Date/Time: _____

Signature: _____ Date/Time: _____

Signature: _____ Date/Time: _____

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



ANALYTICAL SUMMARY REPORT

November 20, 2008

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

Workorder No.: R08090314 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 5 samples for RESPEC Inc on 9/23/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08090314-001	DewBurd GW680	09/22/08 11:18	09/23/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08090314-002	DewBurd GW680	09/22/08 11:22	09/23/08	Aqueous	Same As Above
R08090314-003	DewBurd GW698	09/22/08 13:05	09/23/08	Aqueous	Same As Above
R08090314-004	DewBurd GW622	09/22/08 16:00	09/23/08	Aqueous	Same As Above
R08090314-005	DewBurd GW615	09/22/08 16:30	09/23/08	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



CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08090314

Date: 20-Nov-08

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 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.
- 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: C08090975

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: C08090975



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090314-001
 Client Sample ID: DewBurd GW680

Report Date: 11/20/08
 Collection Date: 09/22/08 11:18
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	252	mg/L		5		1	A2320 B	09/24/08 09:03/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	09/24/08 09:03/mb
Bicarbonate as HCO3	307	mg/L		5		1	A2320 B	09/24/08 09:03/mb
Calcium	402	mg/L		0.5		2	E200.7	09/30/08 17:04/eli-c
Chloride	12	mg/L		1		1	E300.0	09/24/08 22:12/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	09/24/08 22:12/jmh
Magnesium	128	mg/L		0.5		2	E200.7	09/30/08 17:04/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	09/23/08 12:48/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/24/08 22:12/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/24/08 22:12/jmh
Potassium	19.4	mg/L		0.5		2	E200.7	09/30/08 17:04/eli-c
Sodium	144	mg/L		2		2	E200.7	09/30/08 17:04/eli-c
Sulfate	1400	mg/L	D	3		50	E300.0	09/24/08 21:55/jmh
Silica	8.7	mg/L		0.2		2	E200.7	09/30/08 17:04/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2440	umhos/cm		5.0		1	A2510 B	09/25/08 10:07/tb
Oxidation-Reduction Potential	110	mV				1	A2580 B	09/25/08 00:00/jmh
pH	7.24	s.u.		0.01		1	A4500-H B	09/25/08 11:08/tb
Sodium Adsorption Ratio (SAR)	1.6	unitless		0.10		1	Calculation	11/12/08 08:56/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	09/23/08 15:43/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	09/30/08 17:04/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	09/30/08 19:04/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/30/08 17:04/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	09/30/08 17:04/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/30/08 19:04/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/30/08 17:04/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/30/08 19:04/eli-c
Iron	0.24	mg/L		0.03		2	E200.7	09/30/08 17:04/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/30/08 19:04/eli-c
Manganese	0.46	mg/L		0.01		2	E200.7	09/30/08 17:04/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/30/08 19:04/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	09/30/08 17:04/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/30/08 17:04/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/02/08 15:28/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/30/08 19:04/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/30/08 19:04/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08090314-001
 Client Sample ID: DewBurd GW680

Report Date: 11/20/08
 Collection Date: 09/22/08 11:18
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0191	mg/L		0.0003		1	E200.8	09/30/08 19:04/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	09/30/08 17:04/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/30/08 17:04/eli-c
METALS - SUSPENDED								
Uranium	0.0003	mg/L		0.0003		1	E200.8	09/30/08 19:21/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/02/08 11:06/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	5470	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Alpha precision (±)	73.7	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Alpha MDC	7.4	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Beta	2290	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Beta precision (±)	24.9	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Beta MDC	11.0	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Lead 210	14.3	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.6	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	10/01/08 14:38/eli-c
Polonium 210 precision (±)	0.89	pCi/L				1	RMO-3008	10/01/08 14:38/eli-c
Radium 226	1440	pCi/L				1	E903.0	10/14/08 11:05/eli-c
Radium 226 precision (±)	8.2	pCi/L				1	E903.0	10/14/08 11:05/eli-c
Thorium 230	ND	pCi/L	U	0.2		1	E907.0	10/20/08 15:17/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	10/20/08 15:17/eli-c
Gross Gamma	820	pCi/L				1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	74	pCi/L				1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	4.5	pCi/L	U			1	E909.0M	10/01/08 08:40/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Lead 210 MDC	7.8	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Polonium 210	0.54	pCi/L	U			1	RMO-3008	10/09/08 09:13/eli-c
Polonium 210 precision (±)	0.56	pCi/L				1	RMO-3008	10/09/08 09:13/eli-c
Radium 226	5.1	pCi/L				1	E903.0	10/09/08 07:33/eli-c
Radium 226 precision (±)	0.7	pCi/L				1	E903.0	10/09/08 07:33/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	10/09/08 07:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08090314-001
 Client Sample ID: DewBurd GW680

Report Date: 11/20/08
 Collection Date: 09/22/08 11:18
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	09/30/08 16:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	09/30/08 16:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	72700	pCi/L		100		1	D5072-92	09/24/08 12:00/eli-c
Radon 222 precision (±)	305	pCi/L				1	D5072-92	09/24/08 12:00/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		10	E200.8	10/02/08 18:05/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	11/03/08 12:54/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/30/08 22:20/eli-c
Beryllium	ND	mg/L	D	0.002		10	E200.8	10/02/08 18:05/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	09/30/08 22:20/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	09/30/08 22:20/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/30/08 22:20/eli-c
Copper	ND	mg/L		0.01		2	E200.7	09/30/08 22:20/eli-c
Iron	0.33	mg/L		0.03		2	E200.7	09/30/08 22:20/eli-c
Lead	ND	mg/L		0.001		10	E200.8	10/02/08 18:05/eli-c
Manganese	0.46	mg/L		0.01		2	E200.7	09/30/08 22:20/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	09/29/08 10:23/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	09/30/08 22:20/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/30/08 22:20/eli-c
Selenium	ND	mg/L	D	0.005		10	E200.8	10/02/08 18:05/eli-c
Silver	ND	mg/L		0.005		10	E200.8	10/02/08 18:05/eli-c
Strontium	7.3	mg/L		0.1		2	E200.7	09/30/08 22:20/eli-c
Thallium	ND	mg/L		0.001		10	E200.8	10/02/08 18:05/eli-c
Uranium	0.0177	mg/L	D	0.0005		10	E200.8	10/02/08 18:05/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/30/08 22:20/eli-c
DATA QUALITY								
A/C Balance (± 5)	3.94	%				1	A1030 E	11/13/08 00:00/ADM
Anions	34.6	meq/L				1	A1030 E	11/13/08 00:00/ADM
Cations	37.4	meq/L				1	A1030 E	11/13/08 00:00/ADM
Solids, Total Dissolved Calculated	2280	mg/L				1	A1030 E	11/13/08 00:00/ADM
TDS Balance (0.80 - 1.20)	1.00					1	A1030 E	11/13/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090314-002
 Client Sample ID: DewBurd GW680

Report Date: 11/20/08
 Collection Date: 09/22/08 11:22
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	252	mg/L		5			1	A2320 B	09/24/08 09:06/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	09/24/08 09:06/mb
Bicarbonate as HCO3	307	mg/L		5			1	A2320 B	09/24/08 09:06/mb
Calcium	396	mg/L		0.5			2	E200.7	09/30/08 17:08/eli-c
Chloride	12	mg/L		1			1	E300.0	09/24/08 22:44/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	09/24/08 22:44/jmh
Magnesium	128	mg/L		0.5			2	E200.7	09/30/08 17:08/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	09/23/08 12:49/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	09/24/08 22:44/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	09/24/08 22:44/jmh
Potassium	19.2	mg/L		0.5			2	E200.7	09/30/08 17:08/eli-c
Sodium	142	mg/L		2			2	E200.7	09/30/08 17:08/eli-c
Sulfate	1400	mg/L	D	3			50	E300.0	09/24/08 22:28/jmh
Silica	8.6	mg/L		0.2			2	E200.7	09/30/08 17:08/eli-c
PHYSICAL PROPERTIES									
Conductivity @ 25 C	2440	umhos/cm		5.0			1	A2510 B	09/25/08 10:09/tb
Oxidation-Reduction Potential	240	mV					1	A2580 B	09/25/08 00:00/jmh
pH	7.25	s.u.		0.01			1	A4500-H B	09/25/08 11:10/tb
Sodium Adsorption Ratio (SAR)	1.6	unitless		0.10			1	Calculation	11/12/08 08:56/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5			1	A2540 C	09/23/08 15:43/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	09/30/08 17:08/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	09/30/08 19:11/eli-c
Barium	ND	mg/L		0.1			2	E200.7	09/30/08 17:08/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	09/30/08 17:08/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	09/30/08 19:11/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	09/30/08 17:08/eli-c
Copper	ND	mg/L		0.01			1	E200.8	09/30/08 19:11/eli-c
Iron	0.23	mg/L		0.03			2	E200.7	09/30/08 17:08/eli-c
Lead	ND	mg/L		0.001			1	E200.8	09/30/08 19:11/eli-c
Manganese	0.46	mg/L		0.01			2	E200.7	09/30/08 17:08/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	09/30/08 19:11/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	09/30/08 17:08/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	09/30/08 17:08/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	10/02/08 15:37/eli-c
Silver	ND	mg/L		0.005			1	E200.8	09/30/08 19:11/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	09/30/08 19:11/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08090314-002
 Client Sample ID: DewBurd GW680

Report Date: 11/20/08
 Collection Date: 09/22/08 11:22
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0192	mg/L		0.0003		1	E200.8	09/30/08 19:11/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	09/30/08 17:08/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/30/08 17:08/eli-c
METALS - SUSPENDED								
Uranium	0.0004	mg/L		0.0003		1	E200.8	09/30/08 19:25/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/02/08 11:18/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	5620	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Alpha precision (±)	74.7	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Alpha MDC	7.4	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Beta	2260	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Beta precision (±)	24.7	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Beta MDC	11.0	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Lead 210	15.7	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.6	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	10/01/08 14:38/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1	RMO-3008	10/01/08 14:38/eli-c
Radium 226	1420	pCi/L				1	E903.0	10/14/08 11:05/eli-c
Radium 226 precision (±)	8.0	pCi/L				1	E903.0	10/14/08 11:05/eli-c
Thorium 230	ND	pCi/L	U	0.2		1	E907.0	10/20/08 15:17/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	10/20/08 15:17/eli-c
Gross Gamma	890	pCi/L				1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	75	pCi/L				1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	2.7	pCi/L	U			1	E909.0M	10/01/08 08:40/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Lead 210 MDC	7.8	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Polonium 210	0.93	pCi/L				1	RMO-3008	10/09/08 09:13/eli-c
Polonium 210 precision (±)	0.73	pCi/L				1	RMO-3008	10/09/08 09:13/eli-c
Radium 226	5.9	pCi/L				1	E903.0	10/09/08 07:33/eli-c
Radium 226 precision (±)	0.7	pCi/L				1	E903.0	10/09/08 07:33/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	10/09/08 07:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08090314-002
 Client Sample ID: DewBurd GW680

Report Date: 11/20/08
 Collection Date: 09/22/08 11:22
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.5	pCi/L		0.2		1 E907.0	09/30/08 16:00/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1 E907.0	09/30/08 16:00/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	70400	pCi/L		100		1 D5072-92	09/24/08 12:00/eli-c
Radon 222 precision (±)	300	pCi/L				1 D5072-92	09/24/08 12:00/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		10 E200.8	10/02/08 18:12/eli-c
Arsenic	0.002	mg/L		0.001		1 E200.8	11/03/08 13:01/eli-c
Barium	ND	mg/L		0.1		2 E200.7	09/30/08 22:24/eli-c
Beryllium	ND	mg/L	D	0.002		10 E200.8	10/02/08 18:12/eli-c
Boron	0.1	mg/L		0.1		2 E200.7	09/30/08 22:24/eli-c
Cadmium	ND	mg/L		0.005		2 E200.7	09/30/08 22:24/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	09/30/08 22:24/eli-c
Copper	ND	mg/L		0.01		2 E200.7	09/30/08 22:24/eli-c
Iron	0.34	mg/L		0.03		2 E200.7	09/30/08 22:24/eli-c
Lead	ND	mg/L		0.001		10 E200.8	10/02/08 18:12/eli-c
Manganese	0.46	mg/L		0.01		2 E200.7	09/30/08 22:24/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	09/29/08 10:30/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	09/30/08 22:24/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	09/30/08 22:24/eli-c
Selenium	ND	mg/L	D	0.005		10 E200.8	10/02/08 18:12/eli-c
Silver	ND	mg/L		0.005		10 E200.8	10/02/08 18:12/eli-c
Strontium	7.4	mg/L		0.1		2 E200.7	09/30/08 22:24/eli-c
Thallium	ND	mg/L		0.001		10 E200.8	10/02/08 18:12/eli-c
Uranium	0.0179	mg/L		0.0005		10 E200.8	10/02/08 18:12/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	09/30/08 22:24/eli-c
DATA QUALITY							
A/C Balance (± 5)	3.43	%				1 A1030 E	11/13/08 00:00/ADM
Anions	34.5	meq/L				1 A1030 E	11/13/08 00:00/ADM
Cations	37.0	meq/L				1 A1030 E	11/13/08 00:00/ADM
Solids, Total Dissolved Calculated	2270	mg/L				1 A1030 E	11/13/08 00:00/ADM
TDS Balance (0.80 - 1.20)	1.00					1 A1030 E	11/13/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: 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: R08090314-003
 Client Sample ID: DewBurd GW698

Report Date: 11/20/08
 Collection Date: 09/22/08 13:05
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	122	mg/L		5		1	A2320 B	09/24/08 09:09/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	09/24/08 09:09/mb
Bicarbonate as HCO3	149	mg/L		5		1	A2320 B	09/24/08 09:09/mb
Calcium	370	mg/L		0.5		2	E200.7	09/30/08 17:12/eli-c
Chloride	9	mg/L		1		1	E300.0	09/24/08 23:17/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	09/24/08 23:17/jmh
Magnesium	133	mg/L		0.5		2	E200.7	09/30/08 17:12/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	09/23/08 12:50/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/24/08 23:17/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/24/08 23:17/jmh
Potassium	14.4	mg/L		0.5		2	E200.7	09/30/08 17:12/eli-c
Sodium	83	mg/L		2		2	E200.7	09/30/08 17:12/eli-c
Sulfate	1470	mg/L	D	3		50	E300.0	09/24/08 23:01/jmh
Silica	11.5	mg/L		0.2		2	E200.7	09/30/08 17:12/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2300	umhos/cm		5.0		1	A2510 B	09/25/08 10:11/tb
Oxidation-Reduction Potential	-38.3	mV				1	A2580 B	09/25/08 00:00/jmh
pH	7.02	s.u.		0.01		1	A4500-H B	09/25/08 11:11/tb
Sodium Adsorption Ratio (SAR)	0.94	unitless		0.10		1	Calculation	11/12/08 08:56/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	09/23/08 15:44/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	09/30/08 17:12/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	09/30/08 19:18/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/30/08 17:12/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/30/08 17:12/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/30/08 19:18/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/30/08 17:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/30/08 19:18/eli-c
Iron	3.87	mg/L		0.03		2	E200.7	09/30/08 17:12/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/30/08 19:18/eli-c
Manganese	2.41	mg/L		0.01		2	E200.7	09/30/08 17:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/30/08 19:18/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	09/30/08 17:12/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/30/08 17:12/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/02/08 15:48/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/30/08 19:18/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/30/08 19:18/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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. Page 7 of 15



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090314-003
 Client Sample ID: DewBurd GW698

Report Date: 11/20/08
 Collection Date: 09/22/08 13:05
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.103	mg/L		0.0003		1	E200.8	09/30/08 19:18/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	09/30/08 17:12/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/30/08 17:12/eli-c
METALS - SUSPENDED								
Uranium	0.0006	mg/L		0.0003		1	E200.8	09/30/08 19:29/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/02/08 11:20/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	36.3	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Alpha precision (±)	4.3	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Alpha MDC	3.1	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Beta	19.8	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Beta precision (±)	2.7	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Beta MDC	4.0	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Lead 210	2.2	pCi/L	U			1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.4	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	10/01/08 14:38/eli-c
Polonium 210 precision (±)	0.55	pCi/L				1	RMO-3008	10/01/08 14:38/eli-c
Radium 226	410	pCi/L				1	E903.0	10/14/08 11:05/eli-c
Radium 226 precision (±)	4.4	pCi/L				1	E903.0	10/14/08 11:05/eli-c
Thorium 230	ND	pCi/L	U	0.2		1	E907.0	10/20/08 15:17/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	10/20/08 15:17/eli-c
Gross Gamma	240	pCi/L				1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	50	pCi/L				1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.5	pCi/L	U			1	E909.0M	10/01/08 08:40/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Lead 210 MDC	7.8	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Polonium 210	0.059	pCi/L	U			1	RMO-3008	10/09/08 09:13/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008	10/09/08 09:13/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0	10/09/08 07:33/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	10/09/08 07:33/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	10/09/08 07:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08090314-003
 Client Sample ID: DewBurd GW698

Report Date: 11/20/08
 Collection Date: 09/22/08 13:05
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	09/30/08 16:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	09/30/08 16:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	29500	pCi/L		100		1	D5072-92	09/24/08 12:00/eli-c
Radon 222 precision (±)	196	pCi/L				1	D5072-92	09/24/08 12:00/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		10	E200.8	10/02/08 18:19/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/03/08 13:35/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/30/08 22:28/eli-c
Beryllium	ND	mg/L	D	0.002		10	E200.8	10/02/08 18:19/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/30/08 22:28/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	09/30/08 22:28/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/30/08 22:28/eli-c
Copper	ND	mg/L		0.01		2	E200.7	09/30/08 22:28/eli-c
Iron	5.15	mg/L		0.03		2	E200.7	09/30/08 22:28/eli-c
Lead	ND	mg/L		0.001		10	E200.8	10/02/08 18:19/eli-c
Manganese	2.57	mg/L		0.01		2	E200.7	09/30/08 22:28/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	09/29/08 10:32/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	09/30/08 22:28/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/30/08 22:28/eli-c
Selenium	ND	mg/L	D	0.005		10	E200.8	10/02/08 18:19/eli-c
Silver	ND	mg/L		0.005		10	E200.8	10/02/08 18:19/eli-c
Strontium	4.9	mg/L		0.1		2	E200.7	09/30/08 22:28/eli-c
Thallium	ND	mg/L		0.001		10	E200.8	10/02/08 18:19/eli-c
Uranium	0.102	mg/L		0.0005		10	E200.8	10/02/08 18:19/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/30/08 22:28/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.650	%				1	A1030 E	11/13/08 00:00/ADM
Anions	33.2	meq/L				1	A1030 E	11/13/08 00:00/ADM
Cations	33.7	meq/L				1	A1030 E	11/13/08 00:00/ADM
Solids, Total Dissolved Calculated	2180	mg/L				1	A1030 E	11/13/08 00:00/ADM
TDS Balance (0.80 - 1.20)	1.02					1	A1030 E	11/13/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090314-004
 Client Sample ID: DewBurd GW622

Report Date: 11/20/08
 Collection Date: 09/22/08 16:00
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	182	mg/L		5		1	A2320 B	09/24/08 09:10/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	09/24/08 09:10/mb
Bicarbonate as HCO3	222	mg/L		5		1	A2320 B	09/24/08 09:10/mb
Calcium	91.9	mg/L		0.5		2	E200.7	09/30/08 17:16/eli-c
Chloride	10	mg/L		1		1	E300.0	09/25/08 00:56/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	09/25/08 00:56/jmh
Magnesium	31.8	mg/L		0.5		2	E200.7	09/30/08 17:16/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	09/23/08 12:53/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/25/08 00:56/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/25/08 00:56/jmh
Potassium	10.3	mg/L		0.5		2	E200.7	09/30/08 17:16/eli-c
Sodium	180	mg/L		2		2	E200.7	09/30/08 17:16/eli-c
Sulfate	528	mg/L	D	3		50	E300.0	09/25/08 00:06/jmh
Silica	8.9	mg/L		0.2		2	E200.7	09/30/08 17:16/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1270	umhos/cm		5.0		1	A2510 B	09/25/08 10:12/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	09/25/08 00:00/jmh
pH	7.78	s.u.		0.01		1	A4500-H B	09/25/08 11:13/tb
Sodium Adsorption Ratio (SAR)	4.1	unitless		0.10		1	Calculation	11/12/08 08:56/ADM
Solids, Total Dissolved TDS @ 180 C	910	mg/L		5		1	A2540 C	09/23/08 15:45/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	09/30/08 17:16/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	09/30/08 19:51/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/30/08 17:16/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/30/08 17:16/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/30/08 19:51/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/30/08 17:16/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/30/08 19:51/eli-c
Iron	0.03	mg/L		0.03		2	E200.7	09/30/08 17:16/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/30/08 19:51/eli-c
Manganese	0.19	mg/L		0.01		2	E200.7	09/30/08 17:16/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/30/08 19:51/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	09/30/08 17:16/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/30/08 17:16/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/02/08 15:50/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/30/08 19:51/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/30/08 19:51/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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.
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090314-004
 Client Sample ID: DewBurd GW622

Report Date: 11/20/08
 Collection Date: 09/22/08 16:00
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0055	mg/L		0.0003		1 E200.8	09/30/08 19:51/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	09/30/08 17:16/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	09/30/08 17:16/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	09/30/08 19:33/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	10/02/08 11:22/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1470	pCi/L				1 E900.0	10/12/08 05:28/eli-c
Gross Alpha precision (±)	37.3	pCi/L				1 E900.0	10/12/08 05:28/eli-c
Gross Alpha MDC	7.0	pCi/L				1 E900.0	10/12/08 05:28/eli-c
Gross Beta	678	pCi/L				1 E900.0	10/12/08 05:28/eli-c
Gross Beta precision (±)	14.6	pCi/L				1 E900.0	10/12/08 05:28/eli-c
Gross Beta MDC	11.0	pCi/L				1 E900.0	10/12/08 05:28/eli-c
Lead 210	-1	pCi/L	U			1 E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.3	pCi/L				1 E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1 E909.0M	10/02/08 10:37/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1 RMO-3008	10/01/08 14:38/eli-c
Polonium 210 precision (±)	0.44	pCi/L				1 RMO-3008	10/01/08 14:38/eli-c
Radium 226	3.0	pCi/L				1 E903.0	10/14/08 11:05/eli-c
Radium 226 precision (±)	0.4	pCi/L				1 E903.0	10/14/08 11:05/eli-c
Thorium 230	ND	pCi/L	U	0.2		1 E907.0	10/20/08 15:17/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	10/20/08 15:17/eli-c
Gross Gamma	0.0	pCi/L				1 E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	0.2	pCi/L	U			1 E909.0M	10/01/08 08:40/eli-c
Lead 210 precision (±)	4.7	pCi/L				1 E909.0M	10/01/08 08:40/eli-c
Lead 210 MDC	7.8	pCi/L				1 E909.0M	10/01/08 08:40/eli-c
Polonium 210	0.39	pCi/L	U			1 RMO-3008	10/09/08 09:13/eli-c
Polonium 210 precision (±)	0.47	pCi/L				1 RMO-3008	10/09/08 09:13/eli-c
Radium 226	-0.2	pCi/L	U			1 E903.0	10/09/08 07:33/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	10/09/08 07:33/eli-c
Radium 226 MDC	0.4	pCi/L				1 E903.0	10/09/08 07:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08090314-004
 Client Sample ID: DewBurd GW622

Report Date: 11/20/08
 Collection Date: 09/22/08 16:00
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	-0.1	pCi/L	U	0.2		E907.0	09/30/08 16:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				E907.0	09/30/08 16:00/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	992	pCi/L		100		D5072-92	09/24/08 12:00/eli-c
Radon 222 precision (±)	54.5	pCi/L				D5072-92	09/24/08 12:00/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003	10	E200.8	10/02/08 18:26/eli-c
Arsenic	0.002	mg/L		0.001	1	E200.8	11/03/08 13:42/eli-c
Barium	ND	mg/L		0.1	2	E200.7	09/30/08 22:32/eli-c
Beryllium	ND	mg/L	D	0.002	10	E200.8	10/02/08 18:26/eli-c
Boron	ND	mg/L		0.1	2	E200.7	09/30/08 22:32/eli-c
Cadmium	ND	mg/L		0.005	2	E200.7	09/30/08 22:32/eli-c
Chromium	ND	mg/L		0.05	2	E200.7	09/30/08 22:32/eli-c
Copper	ND	mg/L		0.01	2	E200.7	09/30/08 22:32/eli-c
Iron	1.18	mg/L		0.03	2	E200.7	09/30/08 22:32/eli-c
Lead	ND	mg/L		0.001	10	E200.8	10/02/08 18:26/eli-c
Manganese	0.19	mg/L		0.01	2	E200.7	09/30/08 22:32/eli-c
Mercury	ND	mg/L		0.001	1	E245.1	09/29/08 10:35/eli-b
Molybdenum	ND	mg/L		0.1	2	E200.7	09/30/08 22:32/eli-c
Nickel	ND	mg/L		0.05	2	E200.7	09/30/08 22:32/eli-c
Selenium	ND	mg/L	D	0.005	10	E200.8	10/02/08 18:26/eli-c
Silver	ND	mg/L		0.005	10	E200.8	10/02/08 18:26/eli-c
Strontium	1.6	mg/L		0.1	2	E200.7	09/30/08 22:32/eli-c
Thallium	ND	mg/L		0.001	10	E200.8	10/02/08 18:26/eli-c
Uranium	0.0050	mg/L		0.0005	10	E200.8	10/02/08 18:26/eli-c
Zinc	ND	mg/L		0.01	2	E200.7	09/30/08 22:32/eli-c
DATA QUALITY							
A/C Balance (± 5)	1.20	%			1	A1030 E	11/13/08 00:00/ADM
Anions	15.0	meq/L			1	A1030 E	11/13/08 00:00/ADM
Cations	15.3	meq/L			1	A1030 E	11/13/08 00:00/ADM
Solids, Total Dissolved Calculated	986	mg/L			1	A1030 E	11/13/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.920				1	A1030 E	11/13/08 00:00/ADM

Report: RL - Analyte reporting limit.
 Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090314-005
 Client Sample ID: DewBurd GW615

Report Date: 11/20/08
 Collection Date: 09/22/08 16:30
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	138	mg/L		5		1	A2320 B	09/24/08 11:53/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	09/24/08 11:53/mb
Bicarbonate as HCO3	168	mg/L		5		1	A2320 B	09/24/08 11:53/mb
Calcium	75.3	mg/L		0.5		2	E200.7	09/30/08 17:20/eli-c
Chloride	5	mg/L		1		1	E300.0	09/25/08 01:29/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	09/25/08 01:29/jmh
Magnesium	21.8	mg/L		0.5		2	E200.7	09/30/08 17:20/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	09/23/08 12:57/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/25/08 01:29/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/25/08 01:29/jmh
Potassium	8.9	mg/L		0.5		2	E200.7	09/30/08 17:20/eli-c
Sodium	136	mg/L		2		2	E200.7	09/30/08 17:20/eli-c
Sulfate	421	mg/L	D	3		50	E300.0	09/25/08 01:12/jmh
Silica	9.1	mg/L		0.2		2	E200.7	09/30/08 17:20/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1010	umhos/cm		5.0		1	A2510 B	09/25/08 10:14/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	09/25/08 00:00/jmh
pH	7.49	s.u.		0.01		1	A4500-H B	09/25/08 11:15/tb
Sodium Adsorption Ratio (SAR)	3.5	unitless		0.10		1	Calculation	11/12/08 08:56/ADM
Solids, Total Dissolved TDS @ 180 C	670	mg/L		5		1	A2540 C	09/23/08 15:45/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	09/30/08 17:20/eli-c
Arsenic	0.020	mg/L		0.001		1	E200.8	09/30/08 19:58/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/30/08 17:20/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/30/08 17:20/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	09/30/08 17:20/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/30/08 17:20/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/30/08 19:58/eli-c
Iron	0.95	mg/L		0.03		2	E200.7	09/30/08 17:20/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/30/08 19:58/eli-c
Manganese	0.07	mg/L		0.01		2	E200.7	09/30/08 17:20/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/30/08 19:58/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	09/30/08 17:20/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/30/08 17:20/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/02/08 15:52/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/30/08 19:58/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/30/08 19:58/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08090314-005
 Client Sample ID: DewBurd GW615

Report Date: 11/20/08
 Collection Date: 09/22/08 16:30
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0026	mg/L		0.0003		1	E200.8	09/30/08 19:58/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	09/30/08 17:20/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/30/08 17:20/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/30/08 19:37/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/02/08 11:24/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	21.5	pCi/L				1	E900.0	10/12/08 05:28/eli-c
Gross Alpha precision (±)	3.1	pCi/L				1	E900.0	10/12/08 05:28/eli-c
Gross Alpha MDC	2.5	pCi/L				1	E900.0	10/12/08 05:28/eli-c
Gross Beta	9.9	pCi/L				1	E900.0	10/12/08 05:28/eli-c
Gross Beta precision (±)	2.3	pCi/L				1	E900.0	10/12/08 05:28/eli-c
Gross Beta MDC	3.5	pCi/L				1	E900.0	10/12/08 05:28/eli-c
Lead 210	-1	pCi/L	U			1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.9	pCi/L	U	1.0		1	RMO-3008	10/02/08 14:54/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008	10/02/08 14:54/eli-c
Radium 226	2.0	pCi/L				1	E903.0	10/14/08 12:40/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	10/14/08 12:40/eli-c
Thorium 230	ND	pCi/L	U	0.2		1	E907.0	10/20/08 15:17/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	10/20/08 15:17/eli-c
Gross Gamma	0.0	pCi/L				1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.2	pCi/L	U			1	E909.0M	10/01/08 08:40/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Lead 210 MDC	7.8	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Polonium 210	-0.040	pCi/L	U			1	RMO-3008	10/09/08 09:13/eli-c
Polonium 210 precision (±)	0.20	pCi/L				1	RMO-3008	10/09/08 09:13/eli-c
Radium 226	-0.06	pCi/L	U			1	E903.0	10/09/08 07:33/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	10/09/08 07:33/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	10/09/08 07:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08090314-005
 Client Sample ID: DewBurd GW615

Report Date: 11/20/08
 Collection Date: 09/22/08 16:30
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.7	pCi/L		0.2		1 E907.0	09/30/08 16:00/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1 E907.0	09/30/08 16:00/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	1500	pCi/L		100		1 D5072-92	09/24/08 12:00/eli-c
Radon 222 precision (±)	59.7	pCi/L				1 D5072-92	09/24/08 12:00/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	10/02/08 22:10/eli-c
Arsenic	0.022	mg/L		0.001		1 E200.8	11/03/08 13:48/eli-c
Barium	ND	mg/L		0.1		2 E200.7	09/30/08 22:36/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	10/02/08 22:10/eli-c
Boron	ND	mg/L		0.1		2 E200.7	09/30/08 22:36/eli-c
Cadmium	ND	mg/L		0.005		2 E200.7	09/30/08 22:36/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	09/30/08 22:36/eli-c
Copper	ND	mg/L		0.01		2 E200.7	09/30/08 22:36/eli-c
Iron	1.40	mg/L		0.03		2 E200.7	09/30/08 22:36/eli-c
Lead	ND	mg/L		0.001		1 E200.8	10/02/08 22:10/eli-c
Manganese	0.07	mg/L		0.01		2 E200.7	09/30/08 22:36/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	09/29/08 10:37/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	09/30/08 22:36/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	09/30/08 22:36/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	10/02/08 22:10/eli-c
Silver	ND	mg/L		0.005		1 E200.8	10/02/08 22:10/eli-c
Strontium	1.4	mg/L		0.1		2 E200.7	09/30/08 22:36/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	10/02/08 22:10/eli-c
Uranium	0.0023	mg/L		0.0003		1 E200.8	10/02/08 22:10/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	09/30/08 22:36/eli-c
DATA QUALITY							
A/C Balance (± 5)	0.170	%				1 A1030 E	11/13/08 00:00/ADM
Anions	11.7	meq/L				1 A1030 E	11/13/08 00:00/ADM
Cations	11.7	meq/L				1 A1030 E	11/13/08 00:00/ADM
Solids, Total Dissolved Calculated	776	mg/L				1 A1030 E	11/13/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.860					1 A1030 E	11/13/08 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.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/20/08
 Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080924A-ALK-SEL-W		
Sample ID: LCS1_080924A Alkalinity, Total as CaCO3	Laboratory Control Sample 984	mg/L	5.0	98	90	110			Run: PH_COND1-R_080924A 09/24/08 08:54
Sample ID: MBLK1_080924A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080924A 09/24/08 08:58
Sample ID: R08090323-005AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 210	mg/L	5.0	106	80	120			Run: PH_COND1-R_080924A 09/24/08 12:16
Sample ID: R08090323-005AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 196	mg/L	5.0	92	80	120	6.9	10	Run: PH_COND1-R_080924A 09/24/08 12:20
Method: A2510 B							Batch: 080925_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080925 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080925A 09/25/08 10:00
Sample ID: LCS1-1_080925 Conductivity @ 25 C	Laboratory Control Sample 147	umhos/cm	5.0	98	90	110			Run: PH_COND2-R_080925A 09/25/08 10:02
Sample ID: LCS2-1_080925 Conductivity @ 25 C	Laboratory Control Sample 4930	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080925A 09/25/08 10:04
Sample ID: MBLK-1_080925 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080925A 09/25/08 10:06
Method: A2540 C							Batch: 080923A-SLDS-TDS-W		
Sample ID: LCS1_080923A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 190	mg/L	5.0	97	90	110			Run: BAL-4-R_080924A 09/23/08 15:35
Sample ID: MBLK1_080923A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						Run: BAL-4-R_080924A 09/23/08 15:36
Sample ID: R08090295-001BMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 1600	mg/L	5.0	98	80	120			Run: BAL-4-R_080924A 09/23/08 15:41
Sample ID: R08090295-001BMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 1600	mg/L	5.0	100	80	120	0.3	10	Run: BAL-4-R_080924A 09/23/08 15:42
Sample ID: R08090314-005AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 890	mg/L	5.0	112	80	120			Run: BAL-4-R_080924A 09/23/08 15:45
Sample ID: R08090314-005AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 880	mg/L	5.0	106	80	120	1.4	10	Run: BAL-4-R_080924A 09/23/08 15:46

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/20/08
Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080925-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample					Run: PH_COND1-R_080925A			09/25/08 00:00
Oxidation-Reduction Potential	480	mV		101	95	105			
Sample ID: R08090314-005F	Sample Duplicate					Run: PH_COND1-R_080925A			09/25/08 00:00
Oxidation-Reduction Potential	230	mV					1	10	
Method: A3114 B							Batch: C_SE3114-081002B		
Sample ID: MBLK	Method Blank					Run: SUB-C108588			10/02/08 10:59
Selenium-IV	ND	mg/L	0.0003						
Sample ID: 288-142-5	Laboratory Control Sample					Run: SUB-C108588			10/02/08 11:03
Selenium-IV	0.051	mg/L	0.0010	102	90	110			
Sample ID: R08090314-001E	Sample Matrix Spike Duplicate					Run: SUB-C108588			10/02/08 11:10
Selenium-IV	0.052	mg/L	0.0010	103	85	115	0.5	10	
Sample ID: R08090314-001E	Sample Matrix Spike					Run: SUB-C108588			10/02/08 11:15
Selenium-IV	0.052	mg/L	0.0010	103	85	115			
Sample ID: R08090356-006E	Sample Matrix Spike					Run: SUB-C108588			10/02/08 11:45
Selenium-IV	0.053	mg/L	0.0010	106	85	115			
Sample ID: R08090356-006E	Sample Matrix Spike Duplicate					Run: SUB-C108588			10/02/08 11:47
Selenium-IV	0.053	mg/L	0.0010	106	85	115	0.2	10	
Method: A3114 B							Batch: C_SE3114-081002D		
Sample ID: MBLK	Method Blank					Run: SUB-C108610			10/02/08 15:23
Selenium	ND	mg/L	0.0003						
Sample ID: 288-142-5	Laboratory Control Sample					Run: SUB-C108610			10/02/08 15:26
Selenium	0.052	mg/L	0.0010	103	90	110			
Sample ID: R08090314-001E	Sample Matrix Spike					Run: SUB-C108610			10/02/08 15:30
Selenium	0.054	mg/L	0.0010	108	85	115			
Sample ID: R08090314-001E	Sample Matrix Spike Duplicate					Run: SUB-C108610			10/02/08 15:32
Selenium	0.053	mg/L	0.0010	106	85	115	1.8	15	
Sample ID: R08090356-006E	Sample Matrix Spike					Run: SUB-C108610			10/02/08 16:16
Selenium	0.050	mg/L	0.0010	100	85	115			
Sample ID: R08090356-006E	Sample Matrix Spike Duplicate					Run: SUB-C108610			10/02/08 16:19
Selenium	0.050	mg/L	0.0010	100	85	115	0.7	15	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/20/08

Project: Edgemont

Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 080925_1_PH-W		
Sample ID: LCS_pH-1_080925	Laboratory Control Sample				Run: PH_COND2-R_080925B			09/25/08 11:06	
pH	6.80	s.u.	0.010	99	98.55	101.45			
Method: A4500-NH3 G							Batch: A2008-09-23_2_NH3_01		
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_080923A			09/23/08 11:45	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_080923A			09/23/08 11:46	
Nitrogen, Ammonia as N	0.25	mg/L	0.10	100	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_080923A			09/23/08 11:47	
Nitrogen, Ammonia as N	0.25	mg/L	0.10	100	90	110			
Sample ID: R08090291-003BMS	Sample Matrix Spike				Run: TECHAA2-R_080923A			09/23/08 12:41	
Nitrogen, Ammonia as N	0.17	mg/L	0.10	70	80	120			S
Sample ID: R08090291-003BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080923A			09/23/08 12:42	
Nitrogen, Ammonia as N	0.16	mg/L	0.10	63	80	120	10	10	SR
Sample ID: R08090314-004BMS	Sample Matrix Spike				Run: TECHAA2-R_080923A			09/23/08 12:55	
Nitrogen, Ammonia as N	0.30	mg/L	0.10	122	80	120			S
Sample ID: R08090314-004BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080923A			09/23/08 12:56	
Nitrogen, Ammonia as N	0.32	mg/L	0.10	126	80	120	3.6	10	S
Method: D5072-92							Batch: C_R108590		
Sample ID: MB-R108590	Method Blank				Run: SUB-C108590			09/25/08 16:45	
Radon 222	20	pCi/L							U
Sample ID: LCS-R108590	Laboratory Control Sample				Run: SUB-C108590			09/25/08 16:45	
Radon 222	302	pCi/L	100	93	70	130			
Sample ID: R08090314-005G	Sample Duplicate				Run: SUB-C108590			09/24/08 12:00	
Radon 222	1340	pCi/L	100				12	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.

S - Spike recovery outside of advisory limits.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/20/08
 Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19902		
Sample ID: MB-19902	Method Blank			Run: SUB-C108485			09/30/08 22:00		
Barium	ND	mg/L	0.006						
Boron	0.02	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						
Strontium	ND	mg/L	0.0004						
Zinc	ND	mg/L	0.001						
Sample ID: LCS3-19902	Laboratory Control Sample			Run: SUB-C108485			09/30/08 22:04		
Barium	0.508	mg/L	0.10	102	85	115			
Boron	0.516	mg/L	0.10	100	85	115			
Cadmium	0.257	mg/L	0.010	103	85	115			
Chromium	0.508	mg/L	0.050	102	85	115			
Copper	0.510	mg/L	0.010	102	85	115			
Iron	2.81	mg/L	0.030	112	85	115			
Manganese	2.58	mg/L	0.010	103	85	115			
Molybdenum	0.511	mg/L	0.10	102	85	115			
Nickel	0.508	mg/L	0.050	102	85	115			
Strontium	0.507	mg/L	0.10	101	85	115			
Zinc	0.506	mg/L	0.010	101	85	115			
Sample ID: C08091030-001BMS3	Sample Matrix Spike			Run: SUB-C108485			09/30/08 22:44		
Barium	0.622	mg/L	0.10	104	70	130			
Cadmium	0.261	mg/L	0.0010	104	70	130			
Chromium	0.515	mg/L	0.050	103	70	130			
Copper	0.522	mg/L	0.010	103	70	130			
Manganese	2.62	mg/L	0.010	105	70	130			
Nickel	0.511	mg/L	0.050	102	70	130			
Zinc	0.516	mg/L	0.010	102	70	130			
Sample ID: C08091030-001BMSD3	Sample Matrix Spike Duplicate			Run: SUB-C108485			09/30/08 22:48		
Barium	0.614	mg/L	0.10	102	70	130	1.3	20	
Cadmium	0.257	mg/L	0.0010	103	70	130	1.7	20	
Chromium	0.509	mg/L	0.050	102	70	130	1.2	20	
Copper	0.517	mg/L	0.010	102	70	130	1	20	
Manganese	2.57	mg/L	0.010	102	70	130	2	20	
Nickel	0.505	mg/L	0.050	101	70	130	1.2	20	
Zinc	0.507	mg/L	0.010	100	70	130	1.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/20/08
 Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R108485		
Sample ID: MB-080930A	Method Blank		Run: SUB-C108485				09/30/08 13:29		
Silicon	0.04	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	0.02	mg/L	0.008						
Cadmium	ND	mg/L	0.0008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Copper	ND	mg/L	0.005						
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						
Strontium	ND	mg/L	0.0002						
Vanadium	0.005	mg/L	0.003						
Zinc	ND	mg/L	0.002						
Silica	0.09	mg/L	0.04						
Sample ID: LFB-080930A	Laboratory Fortified Blank		Run: SUB-C108485				09/30/08 13:33		
Silicon	0.47	mg/L	0.021	108	85	125			
Aluminum	1.00	mg/L	0.10	100	85	125			
Barium	1.0	mg/L	0.10	103	85	125			
Boron	1.0	mg/L	0.10	102	85	125			
Cadmium	1.0	mg/L	0.010	100	85	125			
Calcium	55	mg/L	0.50	110	85	125			
Chromium	1.0	mg/L	0.050	103	85	125			
Copper	1.0	mg/L	0.010	104	85	125			
Iron	1.1	mg/L	0.030	106	85	125			
Magnesium	54	mg/L	0.50	107	85	125			
Manganese	1.0	mg/L	0.010	104	85	125			
Molybdenum	1.0	mg/L	0.10	101	85	125			
Nickel	1.0	mg/L	0.050	101	85	125			
Potassium	46	mg/L	0.50	92	85	125			
Sodium	50	mg/L	0.77	100	85	125			
Strontium	1.1	mg/L	0.10	105	85	125			
Vanadium	1.1	mg/L	0.10	106	85	125			
Zinc	1.0	mg/L	0.010	103	85	125			
Silica	1.0	mg/L	0.044	46	85	125			S
Sample ID: C08091067-005BMS2	Sample Matrix Spike		Run: SUB-C108485				09/30/08 19:30		
Aluminum	2.11	mg/L	0.10	105	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: 11/20/08
Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R108485		
Sample ID: C08091067-005BMS2	Sample Matrix Spike		Run: SUB-C108485				09/30/08 19:30		
Barium	2.11	mg/L	0.10	105	70	130			
Boron	2.15	mg/L	0.10	104	70	130			
Cadmium	2.05	mg/L	0.010	103	70	130			
Chromium	2.12	mg/L	0.050	106	70	130			
Copper	2.10	mg/L	0.010	105	70	130			
Iron	2.25	mg/L	0.030	112	70	130			
Manganese	2.16	mg/L	0.010	105	70	130			
Molybdenum	2.03	mg/L	0.10	101	70	130			
Nickel	2.09	mg/L	0.050	104	70	130			
Silicon	7.96	mg/L	0.10		70	130			A
Strontium	2.81	mg/L	0.10	105	70	130			
Vanadium	2.23	mg/L	0.10	111	70	130			
Zinc	2.13	mg/L	0.010	106	70	130			
Calcium	180	mg/L	1.0	110	70	130			
Magnesium	137	mg/L	1.0	110	70	130			
Potassium	98.6	mg/L	1.0	95	70	130			
Sodium	152	mg/L	1.5	103	70	130			
Silica	17.0	mg/L	0.21		70	130			A
Sample ID: C08091067-005BMSD2	Sample Matrix Spike Duplicate		Run: SUB-C108485				09/30/08 19:34		
Aluminum	2.06	mg/L	0.10	103	70	130	2.1	20	
Barium	2.13	mg/L	0.10	105	70	130	0.9	20	
Boron	2.20	mg/L	0.10	106	70	130	2.1	20	
Cadmium	2.08	mg/L	0.010	104	70	130	1.5	20	
Chromium	2.14	mg/L	0.050	107	70	130	1.2	20	
Copper	2.14	mg/L	0.010	107	70	130	1.5	20	
Iron	2.30	mg/L	0.030	115	70	130	2.4	20	
Manganese	2.18	mg/L	0.010	106	70	130	0.8	20	
Molybdenum	2.06	mg/L	0.10	103	70	130	1.7	20	
Nickel	2.10	mg/L	0.050	105	70	130	0.5	20	
Silicon	8.09	mg/L	0.10		70	130	1.7	20	A
Strontium	2.78	mg/L	0.10	104	70	130	1.1	20	
Vanadium	2.27	mg/L	0.10	113	70	130	1.9	20	
Zinc	2.17	mg/L	0.010	108	70	130	2.3	20	
Calcium	181	mg/L	1.0	110	70	130	0.2	20	
Magnesium	137	mg/L	1.0	110	70	130	0.1	20	
Potassium	97.7	mg/L	1.0	95	70	130	0.8	20	
Sodium	154	mg/L	1.5	104	70	130	0.8	20	
Silica	17.3	mg/L	0.21		70	130	1.7	20	A

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/20/08
Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7_8							Batch: C_R108648		
Sample ID: LRB	Method Blank		Run: SUB-C108648				10/02/08 13:13		
Antimony	0.0001	mg/L	2E-05						
Arsenic	ND	mg/L	0.0002						
Beryllium	ND	mg/L	3E-05						
Lead	ND	mg/L	1E-05						
Selenium	ND	mg/L	0.0003						
Silver	7E-05	mg/L	2E-05						
Thallium	ND	mg/L	2E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C108648				10/02/08 13:20		
Antimony	0.0495	mg/L	0.0010	99	85	115			
Arsenic	0.0502	mg/L	0.0010	100	85	115			
Beryllium	0.0514	mg/L	0.0010	103	85	115			
Lead	0.0501	mg/L	0.0010	100	85	115			
Selenium	0.0522	mg/L	0.0010	104	85	115			
Silver	0.0203	mg/L	0.0010	101	85	115			
Thallium	0.0495	mg/L	0.0010	99	85	115			
Uranium	0.0470	mg/L	0.00030	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: 11/20/08
Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19902		
Sample ID: MB-19902	Method Blank		Run: SUB-C108648				10/02/08 17:04		
Antimony	ND	mg/L	0.0002						
Arsenic	0.004	mg/L	0.001						
Beryllium	ND	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Selenium	ND	mg/L	0.0005						
Silver	ND	mg/L	0.0005						
Thallium	ND	mg/L	4E-05						
Uranium	ND	mg/L	5E-05						
Sample ID: LCS3-19902	Laboratory Control Sample		Run: SUB-C108648				10/02/08 17:38		
Antimony	0.541	mg/L	0.050	108	85	115			
Arsenic	0.550	mg/L	0.011	109	85	115			
Beryllium	0.237	mg/L	0.010	95	85	115			
Lead	0.502	mg/L	0.050	100	85	115			
Selenium	0.596	mg/L	0.0049	119	85	115			S
Silver	0.0438	mg/L	0.010	88	85	115			
Thallium	0.504	mg/L	0.10	101	85	115			
Uranium	0.566	mg/L	0.00049	113	85	115			
Sample ID: C08091030-001BMS3	Sample Matrix Spike		Run: SUB-C108648				10/02/08 20:49		
Antimony	0.531	mg/L	0.050	106	70	130			
Arsenic	0.553	mg/L	0.011	111	70	130			
Beryllium	0.243	mg/L	0.010	97	70	130			
Lead	0.491	mg/L	0.050	98	70	130			
Selenium	0.568	mg/L	0.0049	114	70	130			
Silver	0.0442	mg/L	0.010	88	70	130			
Thallium	0.496	mg/L	0.10	99	70	130			
Uranium	0.540	mg/L	0.00049	108	70	130			
Sample ID: C08091030-001BMSD3	Sample Matrix Spike Duplicate		Run: SUB-C108648				10/02/08 20:56		
Antimony	0.553	mg/L	0.050	111	70	130	4.1	20	
Arsenic	0.524	mg/L	0.011	105	70	130	5.4	20	
Beryllium	0.251	mg/L	0.010	100	70	130	3.2	20	
Lead	0.506	mg/L	0.050	101	70	130	3.1	20	
Selenium	0.528	mg/L	0.0049	106	70	130	7.4	20	
Silver	0.0466	mg/L	0.010	93	70	130	5.2	20	
Thallium	0.504	mg/L	0.10	101	70	130	1.6	20	
Uranium	0.548	mg/L	0.00049	109	70	130	1.5	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

Report Date: 11/20/08

Project: Edgemont

Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R108490
Sample ID: LRB	Method Blank								Run: SUB-C108490 09/30/08 12:20
Uranium	2E-06	mg/L	2E-06						
Sample ID: LFB	Laboratory Fortified Blank								Run: SUB-C108490 09/30/08 12:24
Uranium	0.0495	mg/L	0.00030	99	85	115			
Sample ID: 15 ppb CTRL	Laboratory Control Sample								Run: SUB-C108490 09/30/08 16:41
Uranium	0.017	mg/L	0.0050	115	70	130			
Sample ID: 30 ppb CTRL	Laboratory Control Sample								Run: SUB-C108490 09/30/08 16:45
Uranium	0.034	mg/L	0.0050	113	70	130			
Sample ID: 45 ppb CTRL	Laboratory Control Sample								Run: SUB-C108490 09/30/08 16:49
Uranium	0.049	mg/L	0.0050	109	70	130			
Sample ID: C08090557-005AMS	Sample Matrix Spike								Run: SUB-C108490 09/30/08 18:49
Uranium	0.046	mg/L	0.00030	93	70	130			
Sample ID: C08090557-005AMSD	Sample Matrix Spike Duplicate								Run: SUB-C108490 09/30/08 18:53
Uranium	0.047	mg/L	0.00030	93	70	130	0.7	20	
Sample ID: C08091148-031AMS2	Sample Matrix Spike								Run: SUB-C108490 09/30/08 22:17
Uranium	0.024	mg/L	0.0050	76	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: 11/20/08
 Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R108491		
Sample ID: LRB	Method Blank			Run: SUB-C108491			09/30/08 13:11		
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-C108491			09/30/08 13:18		
Arsenic	0.0524	mg/L	0.0010	105	85	115			
Cadmium	0.0517	mg/L	0.0010	103	85	115			
Copper	0.0530	mg/L	0.0010	106	85	115			
Lead	0.0515	mg/L	0.0010	103	85	115			
Mercury	0.00511	mg/L	0.0010	102	85	115			
Silver	0.0206	mg/L	0.0010	103	85	115			
Thorium 232	0.0506	mg/L	0.0010	101	85	115			
Uranium	0.0506	mg/L	0.00030	101	85	115			
Sample ID: R08090314-005C	Post Digestion Spike			Run: SUB-C108491			09/30/08 20:05		
Arsenic	0.0714	mg/L	0.0010	102	70	130			
Cadmium	0.0500	mg/L	0.010	100	70	130			
Copper	0.0485	mg/L	0.010	96	70	130			
Lead	0.0515	mg/L	0.050	102	70	130			
Mercury	0.00517	mg/L	0.0010	103	70	130			
Silver	0.0150	mg/L	0.010	75	70	130			
Thorium 232	0.0527	mg/L	0.0010	105	70	130			
Uranium	0.0551	mg/L	0.00030	105	70	130			
Sample ID: R08090314-005C	Post Digestion Spike Duplicate			Run: SUB-C108491			09/30/08 20:12		
Arsenic	0.0714	mg/L	0.0010	102	70	130	0	20	
Cadmium	0.0499	mg/L	0.010	100	70	130	0.3	20	
Copper	0.0482	mg/L	0.010	96	70	130	0.7	20	
Lead	0.0507	mg/L	0.050	101	70	130	1.5	20	
Mercury	0.00514	mg/L	0.0010	103	70	130	0.5	20	
Silver	0.0153	mg/L	0.010	77	70	130	2.1	20	
Thorium 232	0.0531	mg/L	0.0010	106	70	130	0.7	20	
Uranium	0.0552	mg/L	0.00030	105	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: 11/20/08
Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R108648		
Sample ID: C08091079-003BMS4	Post Digestion Spike			Run: SUB-C108648			10/02/08 23:32		
Antimony	0.0529	mg/L	0.050	105	70	130			
Arsenic	0.0524	mg/L	0.0016	105	70	130			
Beryllium	0.0430	mg/L	0.010	86	70	130			
Lead	0.0499	mg/L	0.050	100	70	130			
Selenium	0.0561	mg/L	0.0010	107	70	130			
Silver	0.0163	mg/L	0.010	81	70	130			
Thallium	0.0500	mg/L	0.10	100	70	130			
Uranium	0.0577	mg/L	0.00030	96	70	130			
Sample ID: C08091079-003BMSD4	Post Digestion Spike Duplicate			Run: SUB-C108648			10/02/08 23:39		
Antimony	0.0532	mg/L	0.050	106	70	130	0.7	20	
Arsenic	0.0523	mg/L	0.0016	105	70	130	0.2	20	
Beryllium	0.0438	mg/L	0.010	88	70	130	1.8	20	
Lead	0.0494	mg/L	0.050	99	70	130	0	20	
Selenium	0.0558	mg/L	0.0010	106	70	130	0.7	20	
Silver	0.0165	mg/L	0.010	82	70	130	1.1	20	
Thallium	0.0495	mg/L	0.10	99	70	130	0	20	
Uranium	0.0571	mg/L	0.00030	95	70	130	1	20	
Method: E200.8							Batch: C_R110289		
Sample ID: LRB	Method Blank			Run: SUB-C110289			11/03/08 12:07		
Arsenic	ND	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C110289			11/03/08 12:14		
Arsenic	0.0494	mg/L	0.0010	99	85	115			
Sample ID: C08100994-020AMS4	Post Digestion Spike			Run: SUB-C110289			11/03/08 18:07		
Arsenic	0.0502	mg/L	0.0010	100	70	130			
Sample ID: C08100994-020AMSD4	Post Digestion Spike Duplicate			Run: SUB-C110289			11/03/08 18:14		
Arsenic	0.0496	mg/L	0.0010	98	70	130	1.2	20	
Sample ID: C08100981-001AMS4	Post Digestion Spike			Run: SUB-C110289			11/04/08 06:33		
Arsenic	0.0467	mg/L	0.0010	84	70	130			
Sample ID: C08100981-001AMSD4	Post Digestion Spike Duplicate			Run: SUB-C110289			11/04/08 06:40		
Arsenic	0.0478	mg/L	0.0010	86	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: 11/20/08
Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Batch: B_34942
Sample ID: MB-34942	Method Blank								Run: SUB-B118320 09/29/08 09:37
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-34942	Laboratory Fortified Blank								Run: SUB-B118320 09/29/08 09:44
Mercury	0.0019	mg/L	0.0010	95	85	115			
Sample ID: B08092320-001DMS	Sample Matrix Spike								Run: SUB-B118320 09/29/08 10:25
Mercury	0.0025	mg/L	0.0010	124	70	130			
Sample ID: B08092320-001DMSD	Sample Matrix Spike Duplicate								Run: SUB-B118320 09/29/08 10:28
Mercury	0.0021	mg/L	0.0010	105	70	130	16	30	
Method: E245.1									Analytical Run: SUB-B118320
Sample ID: QCS	Initial Calibration Verification Standard								09/29/08 09:22
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: 11/20/08

Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R37666		
Sample ID: LFB0809244728-3	Laboratory Fortified Blank			Run: DIONEX_080924A			09/24/08 17:00		
Chloride	4.82	mg/L	0.50	96	90	110			
Fluoride	2.02	mg/L	0.10	101	90	110			
Nitrogen, Nitrate as N	2.38	mg/L	0.10	95	90	110			
Nitrogen, Nitrite as N	2.48	mg/L	0.10	99	90	110			
Sulfate	14.6	mg/L	1.0	97	90	110			
Sample ID: LFB0809244728-4	Laboratory Fortified Blank			Run: DIONEX_080924A			09/24/08 17:16		
Chloride	4.93	mg/L	0.50	99	90	110			
Fluoride	2.07	mg/L	0.10	103	90	110			
Nitrogen, Nitrate as N	2.44	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N	2.53	mg/L	0.10	101	90	110			
Sulfate	15.0	mg/L	1.0	100	90	110			
Sample ID: R08090331-009AMS	Sample Matrix Spike			Run: DIONEX_080924A			09/24/08 21:06		
Chloride	48.5	mg/L	0.50		80	120			A
Fluoride	1.30	mg/L	0.10	53	80	120			S
Nitrogen, Nitrate as N	9.18	mg/L	0.10	81	80	120			
Nitrogen, Nitrite as N	2.62	mg/L	0.10	94	80	120			
Sulfate	3490	mg/L	1.0		80	120			A
Sample ID: R08090331-009AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080924A			09/24/08 21:22		
Chloride	49.0	mg/L	0.50		80	120	0.9	10	A
Fluoride	1.21	mg/L	0.10	48	80	120	7.2	10	S
Nitrogen, Nitrate as N	9.25	mg/L	0.10	84	80	120	0.8	10	
Nitrogen, Nitrite as N	2.66	mg/L	0.10	95	80	120	1.5	10	
Sulfate	3500	mg/L	1.0		80	120	0.3	10	A
Sample ID: R08090314-004AMS	Sample Matrix Spike			Run: DIONEX_080924A			09/25/08 00:23		
Chloride	254	mg/L	5.4	91	80	120			
Fluoride	104	mg/L	0.56	97	80	120			
Nitrogen, Nitrate as N	120	mg/L	1.3	96	80	120			
Nitrogen, Nitrite as N	126	mg/L	2.9	100	80	120			
Sulfate	1190	mg/L	3.4	89	80	120			
Sample ID: R08090314-004AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080924A			09/25/08 00:39		
Chloride	243	mg/L	5.4	86	80	120	4.7	10	
Fluoride	99.2	mg/L	0.56	93	80	120	4.8	10	
Nitrogen, Nitrate as N	114	mg/L	1.3	91	80	120	5.2	10	
Nitrogen, Nitrite as N	120	mg/L	2.9	96	80	120	4.9	10	
Sulfate	1160	mg/L	3.4	84	80	120	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: 11/20/08
 Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0536		
Sample ID: MB-GrAB-0536	Method Blank				Run: SUB-C109284		10/11/08 07:02		
Gross Alpha	0.6	pCi/L							
Gross Beta	-0.4	pCi/L							U
Sample ID: UNAT-GrAB-0536	Laboratory Control Sample				Run: SUB-C109284		10/11/08 07:02		
Gross Alpha	120	pCi/L	87		70	130			
Sample ID: C08090586-002FMS	Sample Matrix Spike				Run: SUB-C109284		10/11/08 07:02		
Gross Beta	98.7	pCi/L	108		70	130			
Sample ID: C08090586-002FMSD	Sample Matrix Spike Duplicate				Run: SUB-C109284		10/11/08 07:02		
Gross Beta	89.2	pCi/L	98		70	130	10	16	
Sample ID: C08090975-004HDUP	Sample Duplicate				Run: SUB-C109284		10/12/08 05:28		
Gross Alpha	1700	pCi/L					13	14.9	
Gross Beta	690	pCi/L					2.3	14.3	
Method: E901.1							Batch: C_R109497		
Sample ID: MB-R109497	Method Blank				Run: SUB-C109497		10/13/08 15:50		
Americium 241		pCi/L							
Barium 133		pCi/L							
Bismuth 212		pCi/L							
Bismuth 214		pCi/L							
Cesium 134		pCi/L							
Cesium 137		pCi/L							
Cobalt 60		pCi/L							
Iodine 125		pCi/L							
Iodine 131		pCi/L							
Lead 212		pCi/L							
Lead 214		pCi/L							
Manganese 54		pCi/L							
Potassium 40		pCi/L							
Radium 223		pCi/L							
Radium 224		pCi/L							
Thallium 208		pCi/L							
Thorium 228		pCi/L							
Thorium 234		pCi/L							
Zinc 65		pCi/L							
Radium 228		pCi/L							
Gross Gamma		pCi/L							
Sample ID: LCS-R109497	Laboratory Control Sample				Run: SUB-C109497		10/13/08 15:50		
Cesium 137	46000	pCi/L	20	106	70	130			
Cobalt 60	32000	pCi/L	20	102	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: 11/20/08
Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_R109056		
Sample ID: C08090526-001AMS Radium 226	Sample Matrix Spike 9.0 pCi/g-dry			80	70	130			10/09/08 12:39
Sample ID: C08090526-001AMSD Radium 226	Sample Matrix Spike Duplicate 8.8 pCi/g-dry			82	70	130	1.5	20.9	10/09/08 12:39
Sample ID: LCS-19954 Radium 226	Laboratory Control Sample 0.015 pCi/g-dry			95	70	130			10/09/08 12:39
Sample ID: MB-19954 Radium 226	Method Blank 0.0001 pCi/g-dry								10/09/08 12:39 U
Method: E903.0							Batch: C_RA226-3131		
Sample ID: C08091031-001DMS Radium 226	Sample Matrix Spike 15 pCi/L			98	70	130			10/14/08 12:40
Sample ID: C08091031-001DMSD Radium 226	Sample Matrix Spike Duplicate 15 pCi/L			93	70	130	5.7	23.7	10/14/08 12:40
Sample ID: MB-RA226-3131 Radium 226	Method Blank 0.2 pCi/L								10/14/08 15:07
Sample ID: LCS-RA226-3131 Radium 226	Laboratory Control Sample 7.8 pCi/L			96	70	130			10/14/08 15:07
Method: E907.0							Batch: C_19925		
Sample ID: C08090975-001IMS Thorium 230	Sample Matrix Spike 12.4 pCi/L		0.20	114	70	130			09/30/08 16:00
Sample ID: C08090975-001IMSD Thorium 230	Sample Matrix Spike Duplicate 15.8 pCi/L		0.20	139	70	130	24	30	09/30/08 16:00 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-19925 Thorium 230	Laboratory Control Sample 19.5 pCi/L		0.20	86	70	130			09/30/08 16:00
Sample ID: MB-19925 Thorium 230	Method Blank -1 pCi/L								09/30/08 16:00 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



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/20/08
Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0656		
Sample ID: LCS-RA-TH-ISO-0656	Laboratory Control Sample								
Thorium 230	6.53	pCi/L	0.20	109	70	130			10/20/08 08:48
Sample ID: C08090823-001DMS	Sample Matrix Spike								
Thorium 230	15.8	pCi/L	0.20	97	70	130			10/20/08 08:48
Sample ID: C08090823-001DMSD	Sample Matrix Spike Duplicate								
Thorium 230	14.5	pCi/L	0.20	90	70	130	8.7	41.5	10/20/08 08:48
Sample ID: MB-RA-TH-ISO-0656	Method Blank								
Thorium 230	-0.03	pCi/L							10/20/08 15:17 U
Method: E909.0M							Batch: C_19925		
Sample ID: C08090341-005AMS	Sample Matrix Spike								
Lead 210	1210	pCi/Filter		56	70	130			10/01/08 08:40 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: C08090341-005AMSD	Sample Matrix Spike Duplicate								
Lead 210	1430	pCi/Filter		75	70	130	17	30	10/01/08 08:40
Sample ID: MB-R108927	Method Blank								
Lead 210	1	pCi/L							10/01/08 08:40 U
Sample ID: LCS-R108927	Laboratory Control Sample								
Lead 210	120	pCi/L		106	70	130			10/01/08 08:40
Method: E909.0M							Batch: C_R109120		
Sample ID: C08090975-005HMS	Sample Matrix Spike								
Lead 210	640	pCi/L		111	70	130			10/02/08 10:37
Sample ID: C08090975-005HMSD	Sample Matrix Spike Duplicate								
Lead 210	450	pCi/L		77	70	130	36	30	10/02/08 10:37 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: R08090356-005H	Sample Duplicate								
Lead 210	1.9	pCi/L					2100	30	10/02/08 10:37 UR
Lead 210 MDC	9.0	pCi/L							
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R109120	Method Blank								
Lead 210	-0.8	pCi/L							10/02/08 10:37 U
Sample ID: LCS-R109120	Laboratory Control Sample								
Lead 210	120	pCi/L		101	70	130			10/02/08 10:37

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: 11/20/08
Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_PO210-0149		
Sample ID: R08090356-009J Polonium 210	Sample Matrix Spike 44	pCi/L	1.0	102	70	130			10/02/08 14:54
Sample ID: R08090356-009J Polonium 210	Sample Matrix Spike Duplicate 55	pCi/L	1.0	128	70	130	22	61.7	10/02/08 14:54
Sample ID: LCS-PO210-0149 Polonium 210	Laboratory Control Sample 41	pCi/L	1.0	95	70	130			10/03/08 08:57
Sample ID: MB-PO210-0149 Polonium 210	Method Blank 0.07	pCi/L							10/03/08 08:57 U

Qualifiers:

RL - Analyte reporting limit.

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC		Project Name, PWS, Permit, Etc. Powerful DB		Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address:		Contact Name: Corey Foreman	Phone/Fax: erespec.com	Email:	Sampler: (Please Print) Eric Kromtz
Invoice Address:		Invoice Contact & Phone:		Purchase Order:	Quote/Bottle Order: Allen Scott
Special Report/Formats - EI must be notified prior to sample submittal for the following:					
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers _____ Sample Type: A W S V B O <input type="checkbox"/> Air Water <input type="checkbox"/> Soils/Solids <input type="checkbox"/> Vegetation <input type="checkbox"/> Bioassay <input type="checkbox"/> Other	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED
1 Dew Burd GW 680		4/22/08	11:18	W	As Per Quote SEE ATTACHED Normal Turnaround (TAT) RUSH Contact EI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: 411 GW Receipt Temp: 4.8 °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal: Y N Intact: Y N Signature: _____ Match: Y N
2 Dew Burd GW 680		4/22/08	11:22	W	
3 Dew Burd GW 698		4/22/08	13:05	W	
4 Dew Burd GW 622		4/22/08	16:00	W	
5 Dew Burd GW 615		4/22/08	16:30	W	
6					
7					
8					
9					
10					
Custody Record MUST be Signed		Relinquished by (print): Eric Kromtz	Date/Time: 4/23/08 0810	Signature: <i>[Signature]</i>	Received by (print): Linda Green
Sample Disposal: Return to Client:		Lab Disposal:		Received by (print): Linda Green	Date/Time: 4/23/08 0810

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



ANALYTICAL SUMMARY REPORT

November 20, 2008

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

Workorder No.: R08090356 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 9 samples for RESPEC Inc on 9/24/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08090356-001	DewBurd GW689	09/23/08 13:43	09/24/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08090356-002	DewBurd GW681	09/23/08 13:55	09/24/08	Aqueous	Same As Above
R08090356-003	DewBurd GW704	09/23/08 12:30	09/24/08	Aqueous	Same As Above
R08090356-004	DewBurd GW699	09/23/08 11:45	09/24/08	Aqueous	Same As Above
R08090356-005	DewBurd GW694	09/23/08 10:00	09/24/08	Aqueous	Same As Above
R08090356-006	DewBurd GW696	09/23/08 9:35	09/24/08	Aqueous	Same As Above
R08090356-007	DewBurd GW695	09/23/08 11:00	09/24/08	Aqueous	Same As Above
R08090356-008	DewBurd GW3026	09/23/08 11:25	09/24/08	Aqueous	Same As Above



ANALYTICAL SUMMARY REPORT

R08090356-009 DewBurd BLK01

09/23/08 15:10 09/24/08

Aqueous

Metals by ICP/ICPMS, Dissolved
Metals by ICP/ICPMS, Suspended
Metals by ICP/ICPMS, Total
Alkalinity
Conductivity
Mercury, Total
Selenium, Dissolved
Selenium, Dissolved
Selenium, Dissolved
Anions by Ion Chromatography
Nitrogen, Ammonia
Oxidation Reduction Potential
pH
Digestion, Total Metals
Digestion, Total Metals
Dissolved Filtration
Digestion, Mercury by CVAA
Gross Alpha, Gross Beta
Gross Gamma, Dissolved
Lead 210, Dissolved
Lead 210, Suspended
Polonium 210, Dissolved
Polonium 210, Suspended
Radium 226, Dissolved
Radium 226, Suspended
Radon 222
Thorium, Isotopic
Thorium, Suspended Isotopic
Sodium Adsorption Ratio
Solids, Total Dissolved

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



CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08090356

Date: 20-Nov-08

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: C08091068

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. The MDC of 0.2 pCi/L for Ra226 was not achievable on all samples due to insufficient volume.

End of comments imported for SUBBED Workorder: C08091068



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-001
 Client Sample ID: DewBurd GW689

Report Date: 11/20/08
 Collection Date: 09/23/08 13:43
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	150	mg/L		5		1	A2320 B 10/02/08 14:12/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 10/02/08 14:12/mb
Bicarbonate as HCO3	183	mg/L		5		1	A2320 B 10/02/08 14:12/mb
Calcium	44.6	mg/L		0.5		2	E200.7 10/10/08 11:27/eli-c
Chloride	5	mg/L		1		1	E300.0 09/25/08 13:33/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0 09/25/08 13:33/jmh
Magnesium	15.0	mg/L		0.5		2	E200.7 10/10/08 11:27/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 09/30/08 14:09/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 09/25/08 13:33/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 09/25/08 13:33/jmh
Potassium	6.9	mg/L		0.5		2	E200.7 10/10/08 11:27/eli-c
Sodium	165	mg/L		2		2	E200.7 10/10/08 11:27/eli-c
Sulfate	362	mg/L	D	3		50	E300.0 09/25/08 12:44/jmh
Silica	10.3	mg/L		0.2		2	E200.7 10/10/08 11:27/eli-c
PHYSICAL PROPERTIES							
Conductivity @ 25 C	840	umhos/cm		5.0		1	A2510 B 09/25/08 10:31/tb
Oxidation-Reduction Potential	230	mV				1	A2580 B 09/25/08 00:00/jmh
pH	7.77	s.u.		0.01		1	A4500-H B 09/25/08 11:16/tb
Sodium Adsorption Ratio (SAR)	5.5	unitless		0.10		1	Calculation 11/17/08 14:15/ADM
Solids, Total Dissolved TDS @ 180 C	700	mg/L		5		1	A2540 C 09/30/08 13:52/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 10/10/08 11:27/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8 10/02/08 04:10/eli-c
Barium	ND	mg/L		0.1		1	E200.8 10/02/08 04:10/eli-c
Boron	ND	mg/L		0.1		2	E200.7 10/10/08 11:27/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 10/02/08 04:10/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 10/02/08 04:10/eli-c
Copper	ND	mg/L		0.01		1	E200.8 10/02/08 04:10/eli-c
Iron	ND	mg/L		0.03		2	E200.7 10/10/08 11:27/eli-c
Lead	ND	mg/L		0.001		1	E200.8 10/02/08 04:10/eli-c
Manganese	0.03	mg/L		0.01		1	E200.8 10/02/08 04:10/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 10/02/08 04:10/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 10/02/08 04:10/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 10/02/08 04:10/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 10/02/08 15:54/eli-c
Silver	ND	mg/L		0.005		1	E200.8 10/02/08 04:10/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 10/02/08 04:10/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08090356-001
 Client Sample ID: DewBurd GW689

Report Date: 11/20/08
 Collection Date: 09/23/08 13:43
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0030	mg/L		0.0003		1	E200.8	10/02/08 04:10/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/02/08 04:10/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/02/08 04:10/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/30/08 19:41/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/02/08 11:27/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	30.9	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Alpha precision (±)	4.2	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Alpha MDC	3.8	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta	9.2	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta precision (±)	2.2	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta MDC	3.4	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Lead 210	3.8	pCi/L	U			1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.4	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	10/02/08 14:54/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008	10/02/08 14:54/eli-c
Radium 226	7.5	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	10/27/08 15:37/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	10/27/08 15:37/eli-c
Gross Gamma	960	pCi/L				1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	140	pCi/L				1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.2	pCi/L	U			1	E909.0M	10/01/08 08:40/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Lead 210 MDC	7.8	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Polonium 210	0.16	pCi/L	U			1	RMO-3008	10/09/08 09:13/eli-c
Polonium 210 precision (±)	0.35	pCi/L				1	RMO-3008	10/09/08 09:13/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0	10/09/08 07:33/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	10/09/08 07:33/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	10/09/08 07:33/eli-c

Report RL - Analyte reporting limit.
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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: R08090356-001
 Client Sample ID: DewBurd GW689

Report Date: 11/20/08
 Collection Date: 09/23/08 13:43
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	09/30/08 16:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	09/30/08 16:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	1520	pCi/L		100		1	D5072-92	09/26/08 15:10/eli-c
Radon 222 precision (±)	74.9	pCi/L				1	D5072-92	09/26/08 15:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		10	E200.8	10/03/08 05:05/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/03/08 16:43/eli-c
Barium	ND	mg/L		0.1		10	E200.8	10/03/08 05:05/eli-c
Beryllium	ND	mg/L		0.002		10	E200.8	10/03/08 05:05/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/02/08 20:27/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	10/03/08 05:05/eli-c
Chromium	ND	mg/L		0.05		10	E200.8	10/03/08 05:05/eli-c
Copper	ND	mg/L		0.01		10	E200.8	10/03/08 05:05/eli-c
Iron	0.45	mg/L		0.03		2	E200.7	10/02/08 20:27/eli-c
Lead	ND	mg/L		0.001		10	E200.8	10/03/08 05:05/eli-c
Manganese	0.05	mg/L		0.01		10	E200.8	10/03/08 05:05/eli-c
Mercury	ND	mg/L		0.001		2	E245.1	09/29/08 12:54/eli-b
Molybdenum	ND	mg/L		0.1		10	E200.8	10/03/08 05:05/eli-c
Nickel	ND	mg/L		0.05		10	E200.8	10/03/08 05:05/eli-c
Selenium	ND	mg/L		0.001		10	E200.8	10/03/08 05:05/eli-c
Silver	ND	mg/L		0.005		10	E200.8	10/03/08 05:05/eli-c
Strontium	0.9	mg/L		0.1		10	E200.8	10/03/08 05:05/eli-c
Thallium	ND	mg/L		0.001		10	E200.8	10/03/08 05:05/eli-c
Uranium	0.0030	mg/L		0.0005		10	E200.8	10/03/08 05:05/eli-c
Zinc	0.09	mg/L		0.01		10	E200.8	10/03/08 05:05/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.520	%				1	A1030 E	11/17/08 00:00/jmh
Anions	10.7	meq/L				1	A1030 E	11/17/08 00:00/jmh
Cations	10.8	meq/L				1	A1030 E	11/17/08 00:00/jmh
Solids, Total Dissolved Calculated	718	mg/L				1	A1030 E	11/17/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.980					1	A1030 E	11/17/08 00:00/jmh

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 Definitions: 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: R08090356-002
 Client Sample ID: DewBurd GW681

Report Date: 11/20/08
 Collection Date: 09/23/08 13:55
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	174	mg/L		5			1	A2320 B	10/02/08 14:15/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	10/02/08 14:15/mb
Bicarbonate as HCO3	212	mg/L		5			1	A2320 B	10/02/08 14:15/mb
Calcium	65.0	mg/L		0.5			2	E200.7	10/10/08 11:39/eli-c
Chloride	16	mg/L		1			1	E300.0	09/25/08 14:06/jmh
Fluoride	0.5	mg/L		0.1			1	E300.0	09/25/08 14:06/jmh
Magnesium	24.6	mg/L		0.5			2	E200.7	10/10/08 11:39/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	09/30/08 14:11/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	09/25/08 14:06/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	09/25/08 14:06/jmh
Potassium	9.3	mg/L		0.5			2	E200.7	10/10/08 11:39/eli-c
Sodium	212	mg/L		2			2	E200.7	10/10/08 11:39/eli-c
Sulfate	515	mg/L	D	3			50	E300.0	09/25/08 13:50/jmh
Silica	8.5	mg/L		0.2			2	E200.7	10/10/08 11:39/eli-c
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1020	umhos/cm		5.0			1	A2510 B	09/25/08 10:33/tb
Oxidation-Reduction Potential	210	mV					1	A2580 B	09/25/08 00:00/jmh
pH	7.84	s.u.		0.01			1	A4500-H B	09/25/08 11:18/tb
Sodium Adsorption Ratio (SAR)	5.7	unitless		0.10			1	Calculation	11/17/08 14:15/ADM
Solids, Total Dissolved TDS @ 180 C	890	mg/L		5			1	A2540 C	09/30/08 13:53/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	10/10/08 11:39/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	10/02/08 04:17/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/02/08 04:17/eli-c
Boron	ND	mg/L		0.1			2	E200.7	10/10/08 11:39/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/02/08 04:17/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	10/02/08 04:17/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/02/08 04:17/eli-c
Iron	ND	mg/L		0.03			2	E200.7	10/10/08 11:39/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/02/08 04:17/eli-c
Manganese	0.07	mg/L		0.01			1	E200.8	10/02/08 04:17/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	10/02/08 04:17/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	10/02/08 04:17/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/02/08 04:17/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	10/02/08 16:05/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/02/08 04:17/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	10/02/08 04:17/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08090356-002
 Client Sample ID: DewBurd GW681

Report Date: 11/20/08
 Collection Date: 09/23/08 13:55
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0093	mg/L		0.0003		1 E200.8	10/02/08 04:17/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	10/02/08 04:17/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	10/02/08 04:17/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	09/30/08 19:45/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	10/02/08 11:33/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1180	pCi/L				1 E900.0	10/30/08 01:42/eli-ca
Gross Alpha precision (±)	24.8	pCi/L				1 E900.0	10/30/08 01:42/eli-ca
Gross Alpha MDC	4.8	pCi/L				1 E900.0	10/30/08 01:42/eli-ca
Gross Beta	264	pCi/L				1 E900.0	10/30/08 01:42/eli-ca
Gross Beta precision (±)	5.8	pCi/L				1 E900.0	10/30/08 01:42/eli-ca
Gross Beta MDC	4.5	pCi/L				1 E900.0	10/30/08 01:42/eli-ca
Lead 210	28.3	pCi/L				1 E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.8	pCi/L				1 E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1 E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.8	pCi/L	U	1.0		1 RMO-3008	10/02/08 14:54/eli-c
Polonium 210 precision (±)	1.3	pCi/L				1 RMO-3008	10/02/08 14:54/eli-c
Radium 226	445	pCi/L				1 E903.0	10/21/08 08:28/eli-c
Radium 226 precision (±)	4.1	pCi/L				1 E903.0	10/21/08 08:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	10/27/08 15:37/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1 E907.0	10/27/08 15:37/eli-c
Gross Gamma	1200	pCi/L				1 E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	200	pCi/L				1 E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	4.9	pCi/L	U			1 E909.0M	10/01/08 08:40/eli-c
Lead 210 precision (±)	4.7	pCi/L				1 E909.0M	10/01/08 08:40/eli-c
Lead 210 MDC	7.8	pCi/L				1 E909.0M	10/01/08 08:40/eli-c
Polonium 210	0.88	pCi/L				1 RMO-3008	10/09/08 09:13/eli-c
Polonium 210 precision (±)	0.63	pCi/L				1 RMO-3008	10/09/08 09:13/eli-c
Radium 226	0.9	pCi/L				1 E903.0	10/09/08 07:33/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	10/09/08 07:33/eli-c
Radium 226 MDC	0.4	pCi/L				1 E903.0	10/09/08 07:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08090356-002
 Client Sample ID: DewBurd GW681

Report Date: 11/20/08
 Collection Date: 09/23/08 13:55
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.1	pCi/L	U	0.2		E907.0	09/30/08 16:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				E907.0	09/30/08 16:00/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	304000	pCi/L		100		D5072-92	09/26/08 15:10/eli-c
Radon 222 precision (±)	704	pCi/L				D5072-92	09/26/08 15:10/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		E200.8	10/03/08 16:50/eli-c
Arsenic	0.002	mg/L		0.001		E200.8	10/03/08 16:50/eli-c
Barium	ND	mg/L		0.1		E200.8	10/03/08 16:50/eli-c
Beryllium	ND	mg/L		0.001		E200.8	10/03/08 16:50/eli-c
Boron	ND	mg/L		0.1	2	E200.7	10/10/08 21:40/eli-c
Cadmium	ND	mg/L		0.005		E200.8	10/03/08 16:50/eli-c
Chromium	ND	mg/L		0.05		E200.8	10/03/08 16:50/eli-c
Copper	ND	mg/L		0.01		E200.8	10/03/08 16:50/eli-c
Iron	0.07	mg/L		0.03	2	E200.7	10/10/08 21:40/eli-c
Lead	ND	mg/L		0.001		E200.8	10/03/08 16:50/eli-c
Manganese	0.08	mg/L		0.01		E200.8	10/03/08 16:50/eli-c
Mercury	ND	mg/L		0.001		E245.1	09/29/08 12:07/eli-b
Molybdenum	ND	mg/L		0.1		E200.8	10/03/08 16:50/eli-c
Nickel	ND	mg/L		0.05		E200.8	10/03/08 16:50/eli-c
Selenium	ND	mg/L		0.001		E200.8	10/03/08 16:50/eli-c
Silver	ND	mg/L		0.005		E200.8	10/03/08 16:50/eli-c
Strontium	1.2	mg/L		0.1		E200.8	10/03/08 16:50/eli-c
Thallium	ND	mg/L		0.001		E200.8	10/03/08 16:50/eli-c
Uranium	0.0098	mg/L		0.0003		E200.8	10/03/08 16:50/eli-c
Zinc	ND	mg/L		0.01		E200.8	10/03/08 16:50/eli-c
DATA QUALITY							
A/C Balance (± 5)	0.190	%				A1030 E	11/17/08 00:00/jmh
Anions	14.7	meq/L				A1030 E	11/17/08 00:00/jmh
Cations	14.7	meq/L				A1030 E	11/17/08 00:00/jmh
Solids, Total Dissolved Calculated	969	mg/L				A1030 E	11/17/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.920					A1030 E	11/17/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: R08090356-003
 Client Sample ID: DewBurd GW704

Report Date: 11/20/08
 Collection Date: 09/23/08 12:30
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	74	mg/L		5		1	A2320 B	10/02/08 14:23/mb
Carbonate as CO3	12	mg/L		5		1	A2320 B	10/02/08 14:23/mb
Bicarbonate as HCO3	66	mg/L		5		1	A2320 B	10/02/08 14:23/mb
Calcium	23.0	mg/L		0.5		2	E200.7	10/10/08 11:47/eli-c
Chloride	70	mg/L	D	5		50	E300.0	09/25/08 14:23/jmh
Fluoride	0.8	mg/L		0.1		1	E300.0	09/25/08 14:39/jmh
Magnesium	14.8	mg/L		0.5		2	E200.7	10/10/08 11:47/eli-c
Nitrogen, Ammonia as N	0.5	mg/L		0.1		1	A4500-NH3 G	09/30/08 14:12/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/25/08 14:39/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/25/08 14:39/jmh
Potassium	6.8	mg/L		0.5		2	E200.7	10/10/08 11:47/eli-c
Sodium	437	mg/L		2		2	E200.7	10/10/08 11:47/eli-c
Sulfate	872	mg/L	D	3		50	E300.0	09/25/08 14:23/jmh
Silica	ND	mg/L		0.2		2	E200.7	10/10/08 11:47/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1570	umhos/cm		5.0		1	A2510 B	09/25/08 10:34/tb
Oxidation-Reduction Potential	160	mV				1	A2580 B	09/25/08 00:00/jmh
pH	9.46	s.u.		0.01		1	A4500-H B	09/25/08 11:20/tb
Sodium Adsorption Ratio (SAR)	17	unitless		0.10		1	Calculation	11/17/08 14:15/ADM
Solids, Total Dissolved TDS @ 180 C	1300	mg/L		5		1	A2540 C	09/30/08 13:53/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	10/10/08 11:47/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/02/08 04:23/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/02/08 04:23/eli-c
Boron	0.9	mg/L		0.1		2	E200.7	10/10/08 11:47/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/02/08 04:23/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/02/08 04:23/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/02/08 04:23/eli-c
Iron	ND	mg/L		0.03		2	E200.7	10/10/08 11:47/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/02/08 04:23/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	10/02/08 04:23/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/02/08 04:23/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/02/08 04:23/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/02/08 04:23/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/02/08 16:07/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/02/08 04:23/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/02/08 04:23/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08090356-003
Client Sample ID: DewBurd GW704

Report Date: 11/20/08
Collection Date: 09/23/08 12:30
Date Received: 09/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/02/08 04:23/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/02/08 04:23/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/02/08 04:23/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/30/08 19:49/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/02/08 11:36/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	-3	pCi/L	U			1	E900.0	10/30/08 01:42/eli-ca
Gross Alpha precision (±)	4.0	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Alpha MDC	7.4	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta	-5	pCi/L	U			1	E900.0	10/30/08 01:42/eli-ca
Gross Beta precision (±)	3.9	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta MDC	6.7	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Lead 210	1.1	pCi/L	U			1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.4	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	10/02/08 14:54/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1	RMO-3008	10/02/08 14:54/eli-c
Radium 226	0.04	pCi/L	U			1	E903.0	10/21/08 08:28/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	10/27/08 15:37/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	10/27/08 15:37/eli-c
Gross Gamma	830	pCi/L				1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	130	pCi/L				1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-3	pCi/L	U			1	E909.0M	10/01/08 08:40/eli-c
Lead 210 precision (±)	4.6	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Lead 210 MDC	7.8	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Polonium 210	-0.015	pCi/L	U			1	RMO-3008	10/09/08 09:13/eli-c
Polonium 210 precision (±)	0.21	pCi/L				1	RMO-3008	10/09/08 09:13/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	10/09/08 07:33/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	10/09/08 07:33/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	10/09/08 07:33/eli-c

Report RL - Analyte reporting limit.
Definitions: 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: R08090356-003
 Client Sample ID: DewBurd GW704

Report Date: 11/20/08
 Collection Date: 09/23/08 12:30
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By	
				RL	QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.3	pCi/L		0.2			1	E907.0	09/30/08 16:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	09/30/08 16:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	188	pCi/L		100			1	D5072-92	09/26/08 15:10/eli-c
Radon 222 precision (±)	59.3	pCi/L					1	D5072-92	09/26/08 15:10/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	10/03/08 16:57/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	10/03/08 16:57/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/03/08 16:57/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	10/03/08 16:57/eli-c
Boron	0.9	mg/L		0.1			2	E200.7	10/10/08 21:56/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/03/08 16:57/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	10/03/08 16:57/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/03/08 16:57/eli-c
Iron	0.87	mg/L		0.03			2	E200.7	10/10/08 21:56/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/03/08 16:57/eli-c
Manganese	0.04	mg/L		0.01			1	E200.8	10/03/08 16:57/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	09/29/08 12:09/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	10/03/08 16:57/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/03/08 16:57/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	10/03/08 16:57/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/03/08 16:57/eli-c
Strontium	2.5	mg/L		0.1			1	E200.8	10/03/08 16:57/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	10/03/08 16:57/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	10/03/08 16:57/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	10/03/08 16:57/eli-c
DATA QUALITY									
A/C Balance (± 5)	-0.140	%					1	A1030 E	11/17/08 00:00/jmh
Anions	21.6	meq/L					1	A1030 E	11/17/08 00:00/jmh
Cations	21.6	meq/L					1	A1030 E	11/17/08 00:00/jmh
Solids, Total Dissolved Calculated	1470	mg/L					1	A1030 E	11/17/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.900						1	A1030 E	11/17/08 00:00/jmh

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

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



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-004
 Client Sample ID: DewBurd GW699

Report Date: 11/20/08
 Collection Date: 09/23/08 11:45
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	168	mg/L		5		1	A2320 B	10/02/08 14:25/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/02/08 14:25/mb
Bicarbonate as HCO3	205	mg/L		5		1	A2320 B	10/02/08 14:25/mb
Calcium	53.1	mg/L		0.5		2	E200.7	10/10/08 11:51/eli-c
Chloride	8	mg/L		1		1	E300.0	09/25/08 15:12/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	09/25/08 15:12/jmh
Magnesium	17.5	mg/L		0.5		2	E200.7	10/10/08 11:51/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	09/30/08 14:13/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/25/08 15:12/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/25/08 15:12/jmh
Potassium	8.2	mg/L		0.5		2	E200.7	10/10/08 11:51/eli-c
Sodium	210	mg/L		2		2	E200.7	10/10/08 11:51/eli-c
Sulfate	435	mg/L	D	3		50	E300.0	09/25/08 14:55/jmh
Silica	8.6	mg/L		0.2		2	E200.7	10/10/08 11:51/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	951	umhos/cm		5.0		1	A2510 B	09/25/08 10:37/tb
Oxidation-Reduction Potential	160	mV				1	A2580 B	09/25/08 00:00/jmh
pH	7.83	s.u.		0.01		1	A4500-H B	09/25/08 11:21/tb
Sodium Adsorption Ratio (SAR)	6.4	unitless		0.10		1	Calculation	11/17/08 14:15/ADM
Solids, Total Dissolved TDS @ 180 C	810	mg/L		5		1	A2540 C	09/30/08 13:54/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	10/10/08 11:51/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/02/08 04:30/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/02/08 04:30/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/10/08 11:51/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/02/08 04:30/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/02/08 04:30/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/02/08 04:30/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	10/10/08 11:51/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/02/08 04:30/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	10/02/08 04:30/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/02/08 04:30/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/02/08 04:30/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/02/08 04:30/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/02/08 16:10/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/02/08 04:30/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/02/08 04:30/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08090356-004
Client Sample ID: DewBurd GW699

Report Date: 11/20/08
Collection Date: 09/23/08 11:45
Date Received: 09/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/02/08 04:30/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/02/08 04:30/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/02/08 04:30/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/30/08 19:53/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/02/08 11:38/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	6.3	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Alpha precision (±)	3.1	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Alpha MDC	4.4	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta	5.7	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta precision (±)	2.1	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta MDC	3.4	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Lead 210	-2	pCi/L	U			1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	-0.5	pCi/L	U	1.0		1	RMO-3008	10/02/08 14:54/eli-c
Polonium 210 precision (±)	0.74	pCi/L				1	RMO-3008	10/02/08 14:54/eli-c
Radium 226	1	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	10/27/08 15:37/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	10/27/08 15:37/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-1	pCi/L	U			1	E909.0M	10/01/08 08:40/eli-c
Lead 210 precision (±)	4.6	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Lead 210 MDC	7.8	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Polonium 210	0.027	pCi/L	U			1	RMO-3008	10/09/08 09:13/eli-c
Polonium 210 precision (±)	0.27	pCi/L				1	RMO-3008	10/09/08 09:13/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0	10/09/08 07:33/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	10/09/08 07:33/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	10/09/08 07:33/eli-c

Report RL - Analyte reporting limit.
Definitions: 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: R08090356-004
 Client Sample ID: DewBurd GW699

Report Date: 11/20/08
 Collection Date: 09/23/08 11:45
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0	09/30/08 16:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	09/30/08 16:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	313	pCi/L		100		1	D5072-92	09/26/08 15:10/eli-c
Radon 222 precision (±)	61.3	pCi/L				1	D5072-92	09/26/08 15:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	10/03/08 17:04/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/03/08 17:04/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/03/08 17:04/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	10/03/08 17:04/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/10/08 22:01/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/03/08 17:04/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/03/08 17:04/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/03/08 17:04/eli-c
Iron	0.05	mg/L		0.03		2	E200.7	10/10/08 22:01/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/03/08 17:04/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	10/03/08 17:04/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	09/29/08 12:12/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	10/03/08 17:04/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/03/08 17:04/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/03/08 17:04/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/03/08 17:04/eli-c
Strontium	1.1	mg/L		0.1		1	E200.8	10/03/08 17:04/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	10/03/08 17:04/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	10/03/08 17:04/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/03/08 17:04/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.88	%				1	A1030 E	11/17/08 00:00/jmh
Anions	12.7	meq/L				1	A1030 E	11/17/08 00:00/jmh
Cations	13.4	meq/L				1	A1030 E	11/17/08 00:00/jmh
Solids, Total Dissolved Calculated	857	mg/L				1	A1030 E	11/17/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950					1	A1030 E	11/17/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: R08090356-005
Client Sample ID: DewBurd GW694

Report Date: 11/20/08
Collection Date: 09/23/08 10:00
Date Received: 09/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	202	mg/L		5		1	A2320 B	10/02/08 14:26/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/02/08 14:26/mb
Bicarbonate as HCO3	246	mg/L		5		1	A2320 B	10/02/08 14:26/mb
Calcium	101	mg/L		0.5		2	E200.7	10/10/08 11:55/eli-c
Chloride	9	mg/L		1		1	E300.0	09/25/08 16:50/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	09/25/08 16:50/jmh
Magnesium	37.3	mg/L		0.5		2	E200.7	10/10/08 11:55/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	09/30/08 14:14/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/25/08 16:50/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/25/08 16:50/jmh
Potassium	12.8	mg/L		0.5		2	E200.7	10/10/08 11:55/eli-c
Sodium	179	mg/L		2		2	E200.7	10/10/08 11:55/eli-c
Sulfate	533	mg/L	D	3		50	E300.0	09/25/08 16:01/jmh
Silica	ND	mg/L		0.5		2	E200.7	10/10/08 11:55/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1070	umhos/cm		5.0		1	A2510 B	09/25/08 10:39/tb
Oxidation-Reduction Potential	230	mV				1	A2580 B	09/25/08 00:00/jmh
pH	7.63	s.u.		0.01		1	A4500-H B	09/25/08 11:22/tb
Sodium Adsorption Ratio (SAR)	3.9	unitless		0.10		1	Calculation	11/17/08 14:15/ADM
Solids, Total Dissolved TDS @ 180 C	950	mg/L		5		1	A2540 C	09/30/08 13:54/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	10/10/08 11:55/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	10/02/08 04:37/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/02/08 04:37/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/10/08 11:55/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/02/08 04:37/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/02/08 04:37/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/02/08 04:37/eli-c
Iron	ND	mg/L		0.03		2	E200.7	10/10/08 11:55/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/02/08 04:37/eli-c
Manganese	0.13	mg/L		0.01		1	E200.8	10/02/08 04:37/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/02/08 04:37/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/02/08 04:37/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/02/08 04:37/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/02/08 16:12/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/02/08 04:37/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/02/08 04:37/eli-c

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

MCL - Maximum contaminant level. Page 13 of 27
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: R08090356-005
 Client Sample ID: DewBurd GW694

Report Date: 11/20/08
 Collection Date: 09/23/08 10:00
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0005	mg/L		0.0003		1	E200.8	10/02/08 04:37/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/02/08 04:37/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/02/08 04:37/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/02/08 03:42/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/02/08 11:40/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	7.4	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Alpha precision (±)	3.6	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Alpha MDC	5.1	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta	9.3	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta precision (±)	2.8	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta MDC	4.5	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Lead 210	-2	pCi/L	U			1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	10/02/08 14:54/eli-c
Polonium 210 precision (±)	0.76	pCi/L				1	RMO-3008	10/02/08 14:54/eli-c
Radium 226	1.7	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	10/27/08 15:37/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	10/27/08 15:37/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-1	pCi/L	U			1	E909.0M	10/13/08 10:21/eli-c
Lead 210 precision (±)	5.5	pCi/L				1	E909.0M	10/13/08 10:21/eli-c
Lead 210 MDC	9.2	pCi/L				1	E909.0M	10/13/08 10:21/eli-c
Polonium 210	0.17	pCi/L	U			1	RMO-3008	10/09/08 12:31/eli-c
Polonium 210 precision (±)	0.46	pCi/L				1	RMO-3008	10/09/08 12:31/eli-c
Radium 226	-0.04	pCi/L	U			1	E903.0	10/09/08 09:28/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	10/09/08 09:28/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	10/09/08 09:28/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08090356-005
 Client Sample ID: DewBurd GW694

Report Date: 11/20/08
 Collection Date: 09/23/08 10:00
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	09/30/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	09/30/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	296	pCi/L		100			1	D5072-92	09/26/08 15:10/eli-c
Radon 222 precision (±)	61.9	pCi/L					1	D5072-92	09/26/08 15:10/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	10/03/08 17:10/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	10/03/08 17:10/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/03/08 17:10/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	10/03/08 17:10/eli-c
Boron	ND	mg/L		0.1			2	E200.7	10/10/08 22:05/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/03/08 17:10/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	10/03/08 17:10/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/03/08 17:10/eli-c
Iron	0.18	mg/L		0.03			2	E200.7	10/10/08 22:05/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/03/08 17:10/eli-c
Manganese	0.15	mg/L		0.01			1	E200.8	10/03/08 17:10/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	09/29/08 12:14/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	10/03/08 17:10/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/03/08 17:10/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	10/03/08 17:10/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/03/08 17:10/eli-c
Strontium	2.7	mg/L		0.1			1	E200.8	10/03/08 17:10/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	10/03/08 17:10/eli-c
Uranium	0.0006	mg/L		0.0003			1	E200.8	10/03/08 17:10/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	10/03/08 17:10/eli-c
DATA QUALITY									
A/C Balance (± 5)	2.57	%					1	A1030 E	11/17/08 00:00/jmh
Anions	15.4	meq/L					1	A1030 E	11/17/08 00:00/jmh
Cations	16.2	meq/L					1	A1030 E	11/17/08 00:00/jmh
Solids, Total Dissolved Calculated	993	mg/L					1	A1030 E	11/17/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960						1	A1030 E	11/17/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: 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: R08090356-006
 Client Sample ID: DewBurd GW696

Report Date: 11/20/08
 Collection Date: 09/23/08 09:35
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	180	mg/L		5		1	A2320 B 10/02/08 14:30/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 10/02/08 14:30/mb
Bicarbonate as HCO3	219	mg/L		5		1	A2320 B 10/02/08 14:30/mb
Calcium	30.6	mg/L		0.5		2	E200.7 10/10/08 12:11/eli-c
Chloride	12	mg/L		1		1	E300.0 09/25/08 17:23/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0 09/25/08 17:23/jmh
Magnesium	10.6	mg/L		0.5		2	E200.7 10/10/08 12:11/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G 09/30/08 14:18/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 09/25/08 17:23/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 09/25/08 17:23/jmh
Potassium	8.6	mg/L		0.5		2	E200.7 10/10/08 12:11/eli-c
Sodium	280	mg/L		2		2	E200.7 10/10/08 12:11/eli-c
Sulfate	506	mg/L	D	3		50	E300.0 09/25/08 17:07/jmh
Silica	ND	mg/L		0.5		2	E200.7 10/10/08 12:11/eli-c
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1100	umhos/cm		5.0		1	A2510 B 09/25/08 10:40/tb
Oxidation-Reduction Potential	190	mV				1	A2580 B 09/25/08 00:00/jmh
pH	8.15	s.u.		0.01		1	A4500-H B 09/25/08 11:25/tb
Sodium Adsorption Ratio (SAR)	11	unitless		0.10		1	Calculation 11/17/08 14:15/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5		1	A2540 C 09/30/08 13:55/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 10/10/08 12:11/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 10/02/08 04:44/eli-c
Barium	ND	mg/L		0.1		1	E200.8 10/02/08 04:44/eli-c
Boron	ND	mg/L		0.1		2	E200.7 10/10/08 12:11/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 10/02/08 04:44/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 10/02/08 04:44/eli-c
Copper	ND	mg/L		0.01		1	E200.8 10/02/08 04:44/eli-c
Iron	ND	mg/L		0.03		2	E200.7 10/10/08 12:11/eli-c
Lead	ND	mg/L		0.001		1	E200.8 10/02/08 04:44/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8 10/02/08 04:44/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 10/02/08 04:44/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 10/02/08 04:44/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 10/02/08 04:44/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 10/02/08 16:14/eli-c
Silver	ND	mg/L		0.005		1	E200.8 10/02/08 04:44/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 10/02/08 04:44/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08090356-006
 Client Sample ID: DewBurd GW696

Report Date: 11/20/08
 Collection Date: 09/23/08 09:35
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/02/08 04:44/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/02/08 04:44/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/02/08 04:44/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/02/08 03:46/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/02/08 11:43/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	5.9	pCi/L				1	E900.0	10/30/08 01:42/eli-c
Gross Alpha precision (±)	3.4	pCi/L				1	E900.0	10/30/08 01:42/eli-c
Gross Alpha MDC	5.0	pCi/L				1	E900.0	10/30/08 01:42/eli-c
Gross Beta	8.2	pCi/L				1	E900.0	10/30/08 01:42/eli-c
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	10/30/08 01:42/eli-c
Gross Beta MDC	3.9	pCi/L				1	E900.0	10/30/08 01:42/eli-c
Lead 210	-1	pCi/L	U			1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	10/02/08 14:54/eli-c
Polonium 210 precision (±)	0.89	pCi/L				1	RMO-3008	10/02/08 14:54/eli-c
Radium 226	1.5	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	10/27/08 15:37/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	10/27/08 15:37/eli-c
Gross Gamma	1000	pCi/L				1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.9	pCi/L	U			1	E909.0M	10/13/08 10:21/eli-c
Lead 210 precision (±)	5.5	pCi/L				1	E909.0M	10/13/08 10:21/eli-c
Lead 210 MDC	9.2	pCi/L				1	E909.0M	10/13/08 10:21/eli-c
Polonium 210	-0.062	pCi/L	U			1	RMO-3008	10/09/08 12:31/eli-c
Polonium 210 precision (±)	0.25	pCi/L				1	RMO-3008	10/09/08 12:31/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	10/09/08 09:28/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	10/09/08 09:28/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	10/09/08 09:28/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08090356-006
Client Sample ID: DewBurd GW696

Report Date: 11/20/08
Collection Date: 09/23/08 09:35
Date Received: 09/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	-0.1	pCi/L	U	0.2			1	E907.0	09/30/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	09/30/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	214	pCi/L		100			1	D5072-92	09/26/08 15:10/eli-c
Radon 222 precision (±)	61.0	pCi/L					1	D5072-92	09/26/08 15:10/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	10/03/08 17:17/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	10/03/08 17:17/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/03/08 17:17/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	10/03/08 17:17/eli-c
Boron	ND	mg/L		0.1			2	E200.7	10/10/08 22:17/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/03/08 17:17/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	10/03/08 17:17/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/03/08 17:17/eli-c
Iron	0.14	mg/L		0.03			2	E200.7	10/10/08 22:17/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/03/08 17:17/eli-c
Manganese	0.06	mg/L		0.01			1	E200.8	10/03/08 17:17/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	09/29/08 12:21/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	10/03/08 17:17/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/03/08 17:17/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	10/03/08 17:17/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/03/08 17:17/eli-c
Strontium	0.8	mg/L		0.1			1	E200.8	10/03/08 17:17/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	10/03/08 17:17/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	10/03/08 17:17/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	10/03/08 17:17/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.13	%					1	A1030 E	11/17/08 00:00/jmh
Anions	14.5	meq/L					1	A1030 E	11/17/08 00:00/jmh
Cations	14.8	meq/L					1	A1030 E	11/17/08 00:00/jmh
Solids, Total Dissolved Calculated	957	mg/L					1	A1030 E	11/17/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960						1	A1030 E	11/17/08 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: 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: R08090356-007
 Client Sample ID: DewBurd GW695

Report Date: 11/20/08
 Collection Date: 09/23/08 11:00
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	196	mg/L		5		1	A2320 B	10/02/08 14:33/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/02/08 14:33/mb
Bicarbonate as HCO3	239	mg/L		5		1	A2320 B	10/02/08 14:33/mb
Calcium	347	mg/L		0.5		2	E200.7	10/10/08 12:15/eli-c
Chloride	15	mg/L		1		1	E300.0	09/25/08 17:56/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	09/25/08 17:56/jmh
Magnesium	113	mg/L		0.5		2	E200.7	10/10/08 12:15/eli-c
Nitrogen, Ammonia as N	0.5	mg/L		0.1		1	A4500-NH3 G	09/30/08 14:21/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/25/08 17:56/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/25/08 17:56/jmh
Potassium	18.6	mg/L		0.5		2	E200.7	10/10/08 12:15/eli-c
Sodium	171	mg/L		2		2	E200.7	10/10/08 12:15/eli-c
Sulfate	1560	mg/L	D	3		50	E300.0	09/25/08 17:40/jmh
Silica	ND	mg/L		0.5		2	E200.7	10/10/08 12:15/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2060	umhos/cm		5.0		1	A2510 B	09/25/08 10:43/tb
Oxidation-Reduction Potential	-97.9	mV				1	A2580 B	09/25/08 00:00/jmh
pH	6.92	s.u.		0.01		1	A4500-H B	09/25/08 11:27/tb
Sodium Adsorption Ratio (SAR)	2.0	unitless		0.10		1	Calculation	11/17/08 14:15/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	09/30/08 13:55/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	10/10/08 12:15/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/02/08 04:51/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/02/08 04:51/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	10/10/08 12:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/02/08 04:51/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/02/08 04:51/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/02/08 04:51/eli-c
Iron	1.26	mg/L		0.03		2	E200.7	10/10/08 12:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/02/08 04:51/eli-c
Manganese	0.84	mg/L		0.01		1	E200.8	10/02/08 04:51/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/02/08 04:51/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/02/08 04:51/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/02/08 04:51/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/02/08 16:21/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/02/08 04:51/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/02/08 04:51/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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.
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08090356-007
Client Sample ID: DewBurd GW695

Report Date: 11/20/08
Collection Date: 09/23/08 11:00
Date Received: 09/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0059	mg/L		0.0003		1	E200.8	10/02/08 04:51/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/02/08 04:51/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/02/08 04:51/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0008		1	E200.8	10/02/08 03:50/eli-c
METALS - SPECIATED								
Selenium-IV	0.001	mg/L		0.001		1	A3114 B	10/02/08 11:49/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	44.0	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Alpha precision (±)	9.2	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Alpha MDC	10.2	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta	16.0	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta precision (±)	5.6	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta MDC	9.0	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Lead 210	0.1	pCi/L	U			1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	10/02/08 14:54/eli-c
Polonium 210 precision (±)	0.84	pCi/L				1	RMO-3008	10/02/08 14:54/eli-c
Radium 226	10.4	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Radium 226 precision (±)	0.7	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	10/27/08 15:37/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	10/27/08 15:37/eli-c
Gross Gamma	960	pCi/L				1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	160	pCi/L				1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-2	pCi/L	U			1	E909.0M	10/13/08 10:21/eli-c
Lead 210 precision (±)	5.5	pCi/L				1	E909.0M	10/13/08 10:21/eli-c
Lead 210 MDC	9.2	pCi/L				1	E909.0M	10/13/08 10:21/eli-c
Polonium 210	0.066	pCi/L	U			1	RMO-3008	10/09/08 12:31/eli-c
Polonium 210 precision (±)	0.45	pCi/L				1	RMO-3008	10/09/08 12:31/eli-c
Radium 226	0.9	pCi/L				1	E903.0	10/09/08 09:28/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	10/09/08 09:28/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	10/09/08 09:28/eli-c

Report RL - Analyte reporting limit.
Definitions: 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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-007
 Client Sample ID: DewBurd GW695

Report Date: 11/20/08
 Collection Date: 09/23/08 11:00
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.5	pCi/L		0.2		1 E907.0	09/30/08 15:00/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1 E907.0	09/30/08 15:00/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	357	pCi/L		100		1 D5072-92	09/26/08 15:10/eli-c
Radon 222 precision (±)	62.3	pCi/L				1 D5072-92	09/26/08 15:10/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	10/03/08 17:24/eli-c
Arsenic	0.016	mg/L		0.001		1 E200.8	10/03/08 17:24/eli-c
Barium	ND	mg/L		0.1		1 E200.8	10/03/08 17:24/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	10/03/08 17:24/eli-c
Boron	0.2	mg/L		0.1		2 E200.7	10/10/08 22:25/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	10/03/08 17:24/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	10/03/08 17:24/eli-c
Copper	ND	mg/L		0.01		1 E200.8	10/03/08 17:24/eli-c
Iron	17.9	mg/L		0.03		2 E200.7	10/10/08 22:25/eli-c
Lead	ND	mg/L		0.001		1 E200.8	10/03/08 17:24/eli-c
Manganese	1.18	mg/L		0.01		1 E200.8	10/03/08 17:24/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	09/29/08 12:36/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	10/03/08 17:24/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	10/03/08 17:24/eli-c
Selenium	0.002	mg/L		0.001		1 E200.8	10/03/08 17:24/eli-c
Silver	ND	mg/L		0.005		1 E200.8	10/03/08 17:24/eli-c
Strontium	6.5	mg/L		0.1		1 E200.8	10/03/08 17:24/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	10/03/08 17:24/eli-c
Uranium	0.0085	mg/L		0.0003		1 E200.8	10/03/08 17:24/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	10/03/08 17:24/eli-c
DATA QUALITY							
A/C Balance (± 5)	-3.03	%				1 A1030 E	11/17/08 00:00/jmh
Anions	36.8	meq/L				1 A1030 E	11/17/08 00:00/jmh
Cations	34.6	meq/L				1 A1030 E	11/17/08 00:00/jmh
Solids, Total Dissolved Calculated	2340	mg/L				1 A1030 E	11/17/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.970					1 A1030 E	11/17/08 00:00/jmh

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

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



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-008
 Client Sample ID: DewBurd GW3026

Report Date: 11/20/08
 Collection Date: 09/23/08 11:25
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	174	mg/L		5			1	A2320 B	10/02/08 14:35/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	10/02/08 14:35/mb
Bicarbonate as HCO3	212	mg/L		5			1	A2320 B	10/02/08 14:35/mb
Calcium	46.4	mg/L		0.5			2	E200.7	10/10/08 12:20/eli-c
Chloride	12	mg/L		1			1	E300.0	09/25/08 18:12/jmh
Fluoride	0.5	mg/L		0.1			1	E300.0	09/25/08 18:12/jmh
Magnesium	17.3	mg/L		0.5			2	E200.7	10/10/08 12:20/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	09/30/08 14:22/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	09/25/08 18:12/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	09/25/08 18:12/jmh
Potassium	7.6	mg/L		0.5			2	E200.7	10/10/08 12:20/eli-c
Sodium	229	mg/L		2			2	E200.7	10/10/08 12:20/eli-c
Sulfate	514	mg/L		1			10	E300.0	09/26/08 23:57/jmh
Silica	ND	mg/L		0.5			2	E200.7	10/10/08 12:20/eli-c
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1040	umhos/cm		5.0			1	A2510 B	09/25/08 10:46/tb
Oxidation-Reduction Potential	150	mV					1	A2580 B	09/25/08 00:00/jmh
pH	7.93	s.u.		0.01			1	A4500-H B	09/25/08 11:28/tb
Sodium Adsorption Ratio (SAR)	7.3	unitless		0.10			1	Calculation	11/17/08 14:15/ADM
Solids, Total Dissolved TDS @ 180 C	880	mg/L		5			1	A2540 C	09/30/08 13:58/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	10/10/08 12:20/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	10/02/08 05:24/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/02/08 05:24/eli-c
Boron	ND	mg/L		0.1			2	E200.7	10/10/08 12:20/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/02/08 05:24/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	10/02/08 05:24/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/02/08 05:24/eli-c
Iron	ND	mg/L		0.03			2	E200.7	10/10/08 12:20/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/02/08 05:24/eli-c
Manganese	0.07	mg/L		0.01			1	E200.8	10/02/08 05:24/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	10/02/08 05:24/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	10/02/08 05:24/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/02/08 05:24/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	10/02/08 16:23/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/02/08 05:24/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	10/02/08 05:24/eli-c

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

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



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-008
 Client Sample ID: DewBurd GW3026

Report Date: 11/20/08
 Collection Date: 09/23/08 11:25
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0027	mg/L		0.0003		1	E200.8	10/02/08 05:24/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/02/08 05:24/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/02/08 05:24/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/02/08 03:54/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/02/08 11:52/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	15.9	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Alpha precision (±)	7.0	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Alpha MDC	9.6	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta	1.8	pCi/L	U			1	E900.0	10/30/08 01:42/eli-ca
Gross Beta precision (±)	10.0	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta MDC	16.8	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Lead 210	1.5	pCi/L	U			1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.4	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	10/02/08 14:54/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1	RMO-3008	10/02/08 14:54/eli-c
Radium 226	5.9	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	10/27/08 15:37/eli-c
Thorium 230 precision (±)	0.04	pCi/L				1	E907.0	10/27/08 15:37/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	4.4	pCi/L	U			1	E909.0M	10/13/08 10:21/eli-c
Lead 210 precision (±)	5.6	pCi/L				1	E909.0M	10/13/08 10:21/eli-c
Lead 210 MDC	9.2	pCi/L				1	E909.0M	10/13/08 10:21/eli-c
Polonium 210	0.0	pCi/L	U			1	RMO-3008	10/09/08 12:31/eli-c
Polonium 210 precision (±)	0.35	pCi/L				1	RMO-3008	10/09/08 12:31/eli-c
Radium 226	-0.06	pCi/L	U			1	E903.0	10/09/08 09:28/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	10/09/08 09:28/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	10/09/08 09:28/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08090356-008
 Client Sample ID: DewBurd GW3026

Report Date: 11/20/08
 Collection Date: 09/23/08 11:25
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.3	pCi/L		0.2		1	E907.0	09/30/08 15:00/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	09/30/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	1820	pCi/L		100		1	D5072-92	09/26/08 15:10/eli-c
Radon 222 precision (±)	79.3	pCi/L				1	D5072-92	09/26/08 15:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	10/03/08 17:31/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/03/08 17:31/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/03/08 17:31/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	10/03/08 17:31/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/10/08 22:29/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/03/08 17:31/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/03/08 17:31/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/03/08 17:31/eli-c
Iron	0.16	mg/L		0.03		2	E200.7	10/10/08 22:29/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/03/08 17:31/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	10/03/08 17:31/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/08/08 14:07/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	10/03/08 17:31/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/03/08 17:31/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/03/08 17:31/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/03/08 17:31/eli-c
Strontium	0.9	mg/L		0.1		1	E200.8	10/03/08 17:31/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	10/03/08 17:31/eli-c
Uranium	0.0029	mg/L		0.0003		1	E200.8	10/03/08 17:31/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/03/08 17:31/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.10	%				1	A1030 E	11/17/08 00:00/jmh
Anions	14.5	meq/L				1	A1030 E	11/17/08 00:00/jmh
Cations	13.9	meq/L				1	A1030 E	11/17/08 00:00/jmh
Solids, Total Dissolved Calculated	931	mg/L				1	A1030 E	11/17/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950					1	A1030 E	11/17/08 00:00/jmh

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

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



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-009
 Client Sample ID: DewBurd BLK01

Report Date: 11/20/08
 Collection Date: 09/23/08 15:10
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	10/02/08 14:36/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/02/08 14:36/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	10/02/08 14:36/mb
Calcium	ND	mg/L		0.5		2	E200.7	10/10/08 12:24/eli-c
Chloride	ND	mg/L		1		1	E300.0	09/25/08 19:18/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	09/25/08 19:18/jmh
Magnesium	ND	mg/L		0.5		2	E200.7	10/10/08 12:24/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	09/30/08 14:23/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/25/08 19:18/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/25/08 19:18/jmh
Potassium	ND	mg/L		0.5		2	E200.7	10/10/08 12:24/eli-c
Sodium	ND	mg/L		2		2	E200.7	10/10/08 12:24/eli-c
Sulfate	ND	mg/L		1		1	E300.0	09/25/08 19:18/jmh
Silica	ND	mg/L		0.2		2	E200.7	10/10/08 12:24/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	ND	umhos/cm		5.0		1	A2510 B	09/25/08 10:48/tb
Oxidation-Reduction Potential	380	mV				1	A2580 B	09/25/08 00:00/jmh
pH	5.59	s.u.		0.01		1	A4500-H B	09/25/08 11:33/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	11/17/08 14:15/ADM
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		5		1	A2540 C	09/30/08 13:58/mb
- SAR calculations may not be appropriate for near blank results.								
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	10/10/08 12:24/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/02/08 05:31/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/02/08 05:31/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/10/08 12:24/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/02/08 05:31/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/02/08 05:31/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/02/08 05:31/eli-c
Iron	ND	mg/L		0.03		2	E200.7	10/10/08 12:24/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/02/08 05:31/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	10/02/08 05:31/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/02/08 05:31/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/02/08 05:31/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/02/08 05:31/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/02/08 16:26/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/02/08 05:31/eli-c

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

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



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-009
 Client Sample ID: DewBurd BLK01

Report Date: 11/20/08
 Collection Date: 09/23/08 15:10
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005	1	E200.8	10/02/08 05:31/eli-c
Uranium	ND	mg/L		0.0003	1	E200.8	10/02/08 05:31/eli-c
Vanadium	ND	mg/L		0.1	1	E200.8	10/02/08 05:31/eli-c
Zinc	ND	mg/L		0.01	1	E200.8	10/02/08 05:31/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003	1	E200.8	10/02/08 03:58/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001	1	A3114 B	10/02/08 11:54/eli-c
Selenium-VI	ND	mg/L		0.001	1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	-0.8	pCi/L	U		1	E900.0	10/30/08 01:42/eli-c
Gross Alpha precision (±)	0.6	pCi/L			1	E900.0	10/30/08 01:42/eli-c
Gross Alpha MDC	1.2	pCi/L			1	E900.0	10/30/08 01:42/eli-c
Gross Beta	-3	pCi/L	U		1	E900.0	10/30/08 01:42/eli-c
Gross Beta precision (±)	1.4	pCi/L			1	E900.0	10/30/08 01:42/eli-c
Gross Beta MDC	2.5	pCi/L			1	E900.0	10/30/08 01:42/eli-c
Lead 210	-0.5	pCi/L	U		1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.3	pCi/L			1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L			1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.3	pCi/L	U	1.0	1	RMO-3008	10/02/08 14:54/eli-c
Polonium 210 precision (±)	0.99	pCi/L			1	RMO-3008	10/02/08 14:54/eli-c
Radium 226	-0.2	pCi/L	U		1	E903.0	10/21/08 08:28/eli-c
Radium 226 precision (±)	0.09	pCi/L			1	E903.0	10/21/08 08:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2	1	E907.0	10/27/08 15:37/eli-c
Thorium 230 precision (±)	0.05	pCi/L			1	E907.0	10/27/08 15:37/eli-c
Gross Gamma	0.0	pCi/L	U		1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	20	pCi/L			1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	2.8	pCi/L	U		1	E909.0M	10/13/08 10:21/eli-c
Lead 210 precision (±)	5.5	pCi/L			1	E909.0M	10/13/08 10:21/eli-c
Lead 210 MDC	9.2	pCi/L			1	E909.0M	10/13/08 10:21/eli-c
Polonium 210	-0.079	pCi/L	U		1	RMO-3008	10/09/08 12:31/eli-c
Polonium 210 precision (±)	0.32	pCi/L			1	RMO-3008	10/09/08 12:31/eli-c
Radium 226	-0.2	pCi/L	U		1	E903.0	10/09/08 09:28/eli-c
Radium 226 precision (±)	0.2	pCi/L			1	E903.0	10/09/08 09:28/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08090356-009
 Client Sample ID: DewBurd BLK01

Report Date: 11/20/08
 Collection Date: 09/23/08 15:10
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.4	pCi/L				1	E903.0	10/09/08 09:28/eli-c
Thorium 230	-0.2	pCi/L	U	0.2		1	E907.0	09/30/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	09/30/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	124	pCi/L		100		1	D5072-92	09/26/08 15:10/eli-c
Radon 222 precision (±)	57.3	pCi/L				1	D5072-92	09/26/08 15:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	10/03/08 18:05/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/03/08 18:05/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/03/08 18:05/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	10/03/08 18:05/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/10/08 22:33/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/03/08 18:05/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/03/08 18:05/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/03/08 18:05/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	10/10/08 22:33/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/03/08 18:05/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	10/03/08 18:05/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	09/29/08 12:41/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	10/03/08 18:05/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/03/08 18:05/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/03/08 18:05/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/03/08 18:05/eli-c
Strontium	ND	mg/L		0.1		1	E200.8	10/03/08 18:05/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	10/03/08 18:05/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	10/03/08 18:05/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/03/08 18:05/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: 11/20/08
Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 081002A-ALK-SEL-W		
Sample ID: LCS1_081002A Alkalinity, Total as CaCO3	Laboratory Control Sample 960	mg/L	5.0	96	90	110			Run: PH_COND1-R_081003B 10/02/08 12:07
Sample ID: MBLK1_081002A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_081003B 10/02/08 12:08
Sample ID: R08090356-002AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 282	mg/L	5.0	102	80	120			Run: PH_COND1-R_081003B 10/02/08 14:17
Sample ID: R08090356-002AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 280	mg/L	5.0	100	80	120	0.7	10	Run: PH_COND1-R_081003B 10/02/08 14:19
Sample ID: R08090361-003AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 244	mg/L	5.0	89	80	120			Run: PH_COND1-R_081003B 10/02/08 14:55
Sample ID: R08090361-003AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 246	mg/L	5.0	91	80	120	0.8	10	Run: PH_COND1-R_081003B 10/02/08 14:59
Method: A2510 B							Batch: 080925_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080925 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080925A 09/25/08 10:00
Sample ID: LCS1-1_080925 Conductivity @ 25 C	Laboratory Control Sample 147	umhos/cm	5.0	98	90	110			Run: PH_COND2-R_080925A 09/25/08 10:02
Sample ID: LCS2-1_080925 Conductivity @ 25 C	Laboratory Control Sample 4930	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080925A 09/25/08 10:04
Sample ID: MBLK-1_080925 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080925A 09/25/08 10:06
Sample ID: R08090356-009ADUP Conductivity @ 25 C	Sample Duplicate ND	umhos/cm	5.0				0	10	Run: PH_COND2-R_080925A 09/25/08 10:50

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/20/08

Project: Edgemont

Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 080930A-SLDS-TDS-W		
Sample ID: LCS1_080930A	Laboratory Control Sample								
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	98	90	110			10/01/08 10:12
Sample ID: MBLK1_080930A	Method Blank								
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						09/30/08 13:38
Sample ID: R08090343-006AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	890	mg/L	5.0	102	80	120			09/30/08 13:50
Sample ID: R08090343-006AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	870	mg/L	5.0	91	80	120	2.5	10	09/30/08 13:50
Sample ID: R08090356-007AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	2500	mg/L	5.0	105	80	120			09/30/08 13:56
Sample ID: R08090356-007AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	2400	mg/L	5.0	62	80	120	3.5	10	09/30/08 13:56 S
Method: A2580 B							Batch: 080925-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample								
Oxidation-Reduction Potential	480	mV		101	95	105			09/25/08 00:00
Sample ID: R08090356-009F	Sample Duplicate								
Oxidation-Reduction Potential	380	mV					1.5	10	09/25/08 00:00
Method: A3114 B							Batch: C_SE3114-081002B		
Sample ID: MBLK	Method Blank								
Selenium-IV	ND	mg/L	0.0003						10/02/08 10:59
Sample ID: 288-142-5	Laboratory Control Sample								
Selenium-IV	0.051	mg/L	0.0010	102	90	110			10/02/08 11:03
Sample ID: R08090356-006E	Sample Matrix Spike								
Selenium-IV	0.053	mg/L	0.0010	106	85	115			10/02/08 11:45
Sample ID: R08090356-006E	Sample Matrix Spike Duplicate								
Selenium-IV	0.053	mg/L	0.0010	106	85	115	0.2	10	10/02/08 11:47

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: 11/20/08
Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-081002D		
Sample ID: MBLK	Method Blank								Run: SUB-C108610 10/02/08 15:23
Selenium	ND	mg/L	0.0003						
Sample ID: 288-142-5	Laboratory Control Sample								Run: SUB-C108610 10/02/08 15:26
Selenium	0.052	mg/L	0.0010	103	90	110			
Sample ID: R08090356-006E	Sample Matrix Spike								Run: SUB-C108610 10/02/08 16:16
Selenium	0.050	mg/L	0.0010	100	85	115			
Sample ID: R08090356-006E	Sample Matrix Spike Duplicate								Run: SUB-C108610 10/02/08 16:19
Selenium	0.050	mg/L	0.0010	100	85	115	0.7	15	
Method: A4500-H B							Batch: 080925_1_PH-W		
Sample ID: LCS_pH-1_080925	Laboratory Control Sample								Run: PH_COND2-R_080925B 09/25/08 11:06
pH	6.80	s.u.	0.010	99	98.55	101.45			
Sample ID: R08090356-005ADUP	Sample Duplicate								Run: PH_COND2-R_080925B 09/25/08 11:23
pH	7.64	s.u.	0.010				0.1	1.25	
Sample ID: R08090356-009ADUP	Sample Duplicate								Run: PH_COND2-R_080925B 09/25/08 11:35
pH	5.57	s.u.	0.010				0.4	1.25	
Method: A4500-NH3 G							Batch: A2008-09-30_2_NH3_01		
Sample ID: MBLK-2	Method Blank								Run: TECHAA2-R_080930A 09/30/08 10:18
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank								Run: TECHAA2-R_080930A 09/30/08 10:20
Nitrogen, Ammonia as N	0.26	mg/L	0.10	105	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank								Run: TECHAA2-R_080930A 09/30/08 10:21
Nitrogen, Ammonia as N	0.26	mg/L	0.10	104	90	110			
Sample ID: R08090343-006CMS	Sample Matrix Spike								Run: TECHAA2-R_080930A 09/30/08 14:05
Nitrogen, Ammonia as N	0.28	mg/L	0.10	113	80	120			
Sample ID: R08090343-006CMSD	Sample Matrix Spike Duplicate								Run: TECHAA2-R_080930A 09/30/08 14:06
Nitrogen, Ammonia as N	0.29	mg/L	0.10	114	80	120	1.4	10	
Sample ID: R08090356-006BMS	Sample Matrix Spike								Run: TECHAA2-R_080930A 09/30/08 14:19
Nitrogen, Ammonia as N	0.59	mg/L	0.10	83	80	120			
Sample ID: R08090356-006BMSD	Sample Matrix Spike Duplicate								Run: TECHAA2-R_080930A 09/30/08 14:20
Nitrogen, Ammonia as N	0.61	mg/L	0.10	91	80	120	3.2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Project: Edgemont

Report Date: 11/20/08

Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: D5072-92							Batch: C_R108612		
Sample ID: R08090356-009G	Sample Duplicate					Run: SUB-C108612		09/26/08 15:10	
Radon 222	165	pCi/L	100				28	30	
Sample ID: R08090356-001G	Sample Duplicate					Run: SUB-C108612		09/26/08 15:10	
Radon 222	1870	pCi/L	100				20	30	
Sample ID: MB-R108612	Method Blank					Run: SUB-C108612		09/26/08 15:10	
Radon 222	40	pCi/L							
Sample ID: LCS-R108612	Laboratory Control Sample					Run: SUB-C108612		09/26/08 15:10	
Radon 222	301	pCi/L	100	84	70	130			
Method: E200.7							Batch: C_19936		
Sample ID: MB-19936	Method Blank					Run: SUB-C108653		10/02/08 20:10	
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Sample ID: LCS3-19936	Laboratory Control Sample					Run: SUB-C108653		10/02/08 20:14	
Boron	0.492	mg/L	0.10	98	85	115			
Iron	2.66	mg/L	0.030	106	85	115			
Sample ID: C08091126-006BMS3	Sample Matrix Spike					Run: SUB-C108653		10/02/08 21:40	
Boron	0.599	mg/L	0.10	104	70	130			
Iron	4.98	mg/L	0.030	117	70	130			
Sample ID: C08091126-006BMSD3	Sample Matrix Spike Duplicate					Run: SUB-C108653		10/02/08 21:44	
Boron	0.530	mg/L	0.10	90	70	130	12	20	
Iron	4.30	mg/L	0.030	90	70	130	15	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/20/08
Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R109094		
Sample ID: MB-081009A	Method Blank			Run: SUB-C109094			10/10/08 11:19		
Aluminum	ND	mg/L	0.004						
Boron	ND	mg/L	0.008						
Iron	ND	mg/L	0.005						
Silicon	0.01	mg/L							
Calcium	ND	mg/L	0.1						
Magnesium	ND	mg/L	0.04						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Silica	0.03	mg/L							
Sample ID: LFB-081009A	Laboratory Fortified Blank			Run: SUB-C109094			10/10/08 11:23		
Aluminum	0.967	mg/L	0.10	97	85	115			
Boron	0.966	mg/L	0.10	97	85	115			
Iron	1.05	mg/L	0.030	105	85	115			
Silicon	0.349	mg/L		87	85	115			
Calcium	51.9	mg/L	0.50	104	85	115			
Magnesium	51.8	mg/L	0.50	104	85	115			
Potassium	45.0	mg/L	0.50	90	85	115			
Sodium	49.4	mg/L	0.77	99	85	115			
Silica	0.747	mg/L		87	85	115			
Sample ID: R08090356-005D	Sample Matrix Spike			Run: SUB-C109094			10/10/08 22:09		
Aluminum	1.86	mg/L	0.10	93	70	130			
Boron	1.97	mg/L	0.10	95	70	130			
Iron	2.23	mg/L	0.030	102	70	130			
Silicon	4.98	mg/L	0.10		70	130			A
Calcium	193	mg/L	1.0	96	70	130			
Magnesium	146	mg/L	1.0	108	70	130			
Sodium	251	mg/L	1.1	92	70	130			
Silica	10.7	mg/L	0.21		70	130			A
Sample ID: R08090356-005D	Sample Matrix Spike Duplicate			Run: SUB-C109094			10/10/08 22:13		
Aluminum	1.84	mg/L	0.10	92	70	130	1.1	20	
Boron	2.00	mg/L	0.10	96	70	130	1.3	20	
Iron	2.26	mg/L	0.030	104	70	130	1.3	20	
Silicon	5.06	mg/L	0.10		70	130	1.6	20	A
Calcium	198	mg/L	1.0	100	70	130	2.3	20	
Magnesium	149	mg/L	1.0	111	70	130	1.7	20	
Sodium	249	mg/L	1.1	90	70	130	0.7	20	
Silica	10.8	mg/L	0.21		70	130	1.6	20	A
Sample ID: C08100102-002BMS2	Sample Matrix Spike			Run: SUB-C109094			10/11/08 01:19		
Aluminum	1.89	mg/L	0.10	95	70	130			
Boron	2.00	mg/L	0.10	97	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: 11/20/08
Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R109094		
Sample ID: C08100102-002BMS2	Sample Matrix Spike			Run: SUB-C109094			10/11/08 01:19		
Iron	2.09	mg/L	0.030	103	70	130			
Silicon	9.50	mg/L	0.10		70	130			A
Calcium	154	mg/L	1.0	105	70	130			
Magnesium	116	mg/L	1.0	104	70	130			
Potassium	94.4	mg/L	1.0	93	70	130			
Sodium	229	mg/L	1.1	103	70	130			
Silica	20.3	mg/L	0.21		70	130			A
Sample ID: C08100102-002BMSD2	Sample Matrix Spike Duplicate			Run: SUB-C109094			10/11/08 01:23		
Aluminum	1.96	mg/L	0.10	98	70	130	3.5	20	
Boron	2.03	mg/L	0.10	98	70	130	1.3	20	
Iron	2.15	mg/L	0.030	106	70	130	2.9	20	
Silicon	9.63	mg/L	0.10		70	130	1.3	20	A
Calcium	154	mg/L	1.0	104	70	130	0.4	20	
Magnesium	116	mg/L	1.0	105	70	130	0.2	20	
Potassium	94.6	mg/L	1.0	93	70	130	0.2	20	
Sodium	226	mg/L	1.1	100	70	130	1.3	20	
Silica	20.6	mg/L	0.21		70	130	1.3	20	A
Method: E200.8							Batch: C_19926		
Sample ID: MB-19926	Method Blank			Run: SUB-C108564			10/02/08 03:18		
Uranium	0.0008	mg/L							
Sample ID: LCS1-19926	Laboratory Control Sample			Run: SUB-C108564			10/02/08 03:38		
Uranium	0.0554	mg/L	0.00030	104	80	120			
Sample ID: R08090356-009I	Post Digestion Spike			Run: SUB-C108564			10/02/08 04:02		
Uranium	0.0120	mg/L	0.00030	96	70	130			
Sample ID: R08090356-009I	Post Digestion Spike Duplicate			Run: SUB-C108564			10/02/08 04:06		
Uranium	0.0121	mg/L	0.00030	96	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/20/08

Project: Edgemont

Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19936		
Sample ID: MB-19936	Method Blank		Run: SUB-C108648			10/03/08 04:45			
Antimony	0.0004	mg/L	0.0002						
Arsenic	0.004	mg/L	0.001						
Barium	ND	mg/L	4E-05						
Beryllium	ND	mg/L	0.0002						
Cadmium	ND	mg/L	4E-05						
Chromium	0.001	mg/L	0.0007						
Copper	ND	mg/L	0.002						
Lead	ND	mg/L	5E-05						
Manganese	ND	mg/L	0.0001						
Molybdenum	ND	mg/L	0.004						
Nickel	ND	mg/L	0.0003						
Selenium	ND	mg/L	0.0005						
Silver	ND	mg/L	0.0005						
Strontium	ND	mg/L	5E-05						
Thallium	ND	mg/L	4E-05						
Uranium	ND	mg/L	5E-05						
Zinc	0.002	mg/L	0.0005						
Sample ID: LCS3-19936	Laboratory Control Sample		Run: SUB-C108648			10/03/08 04:51			
Antimony	0.520	mg/L	0.050	104	85	115			
Arsenic	0.506	mg/L	0.011	100	85	115			
Barium	0.506	mg/L	0.10	101	85	115			
Beryllium	0.244	mg/L	0.010	98	85	115			
Cadmium	0.261	mg/L	0.010	105	85	115			
Chromium	0.493	mg/L	0.050	98	85	115			
Copper	0.504	mg/L	0.021	101	85	115			
Lead	0.491	mg/L	0.050	98	85	115			
Manganese	2.50	mg/L	0.010	100	85	115			
Molybdenum	0.477	mg/L	0.10	95	85	115			
Nickel	0.493	mg/L	0.050	99	85	115			
Selenium	0.517	mg/L	0.0049	103	85	115			
Silver	0.0421	mg/L	0.010	84	85	115			S
Strontium	0.506	mg/L	0.10	101	85	115			
Thallium	0.486	mg/L	0.10	97	85	115			
Uranium	0.524	mg/L	0.00049	105	85	115			
Zinc	0.563	mg/L	0.010	112	85	115			
Sample ID: C08091126-006BMS3	Sample Matrix Spike		Run: SUB-C108648			10/03/08 06:54			
Antimony	0.520	mg/L	0.050	104	70	130			
Arsenic	0.512	mg/L	0.011	102	70	130			
Barium	0.544	mg/L	0.10	101	70	130			
Beryllium	0.239	mg/L	0.010	96	70	130			
Cadmium	0.259	mg/L	0.010	104	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: 11/20/08
 Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19936		
Sample ID: C08091126-006BMS3	Sample Matrix Spike		Run: SUB-C108648				10/03/08 06:54		
Chromium	0.489	mg/L	0.050	98	70	130			
Copper	0.497	mg/L	0.021	99	70	130			
Lead	0.496	mg/L	0.050	99	70	130			
Manganese	3.35	mg/L	0.010	111	70	130			
Molybdenum	0.490	mg/L	0.10	98	70	130			
Nickel	0.495	mg/L	0.050	98	70	130			
Selenium	0.504	mg/L	0.0049	101	70	130			
Silver	0.0422	mg/L	0.010	84	70	130			
Strontium	1.11	mg/L	0.10	108	70	130			
Thallium	0.490	mg/L	0.10	98	70	130			
Uranium	0.678	mg/L	0.00049	108	70	130			
Zinc	0.550	mg/L	0.010	97	70	130			
Sample ID: C08091126-006BMSD3	Sample Matrix Spike Duplicate		Run: SUB-C108648				10/03/08 07:00		
Antimony	0.451	mg/L	0.050	90	70	130	14	20	
Arsenic	0.444	mg/L	0.011	89	70	130	14	20	
Barium	0.465	mg/L	0.10	85	70	130	16	20	
Beryllium	0.202	mg/L	0.010	81	70	130	17	20	
Cadmium	0.226	mg/L	0.010	90	70	130	14	20	
Chromium	0.418	mg/L	0.050	84	70	130	16	20	
Copper	0.427	mg/L	0.021	85	70	130	15	20	
Lead	0.429	mg/L	0.050	86	70	130	14	20	
Manganese	2.64	mg/L	0.010	83	70	130	24	20	R
Molybdenum	0.425	mg/L	0.10	85	70	130	14	20	
Nickel	0.429	mg/L	0.050	85	70	130	14	20	
Selenium	0.443	mg/L	0.0049	89	70	130	13	20	
Silver	0.0398	mg/L	0.010	80	70	130	5.7	20	
Strontium	0.953	mg/L	0.10	77	70	130	15	20	
Thallium	0.434	mg/L	0.10	87	70	130	12	20	
Uranium	0.577	mg/L	0.00049	88	70	130	16	20	
Zinc	0.480	mg/L	0.010	83	70	130	14	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: 11/20/08
 Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R108490		
Sample ID: LRB	Method Blank			Run: SUB-C108490		09/30/08 12:20			
Uranium	2E-06	mg/L	2E-06						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C108490		09/30/08 12:24			
Uranium	0.0495	mg/L	0.00030	99	85	115			
Sample ID: C08090557-005AMS	Sample Matrix Spike			Run: SUB-C108490		09/30/08 18:49			
Uranium	0.046	mg/L	0.00030	93	70	130			
Sample ID: C08090557-005AMSD	Sample Matrix Spike Duplicate			Run: SUB-C108490		09/30/08 18:53			
Uranium	0.047	mg/L	0.00030	93	70	130	0.7	20	
Sample ID: C08091148-031AMS2	Sample Matrix Spike			Run: SUB-C108490		09/30/08 22:17			
Uranium	0.024	mg/L	0.0050	76	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: 11/20/08
Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R108572		
Sample ID: LRB	Method Blank		Run: SUB-C108572				10/01/08 12:40		
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	0.0002	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	3E-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	0.001	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C108572				10/01/08 12:46		
Arsenic	0.0495	mg/L	0.0010	99	85	115			
Barium	0.0504	mg/L	0.0010	101	85	115			
Cadmium	0.0500	mg/L	0.0010	100	85	115			
Chromium	0.0499	mg/L	0.0010	100	85	115			
Copper	0.0500	mg/L	0.0010	100	85	115			
Lead	0.0508	mg/L	0.0010	102	85	115			
Manganese	0.0501	mg/L	0.0010	100	85	115			
Mercury	0.00514	mg/L	0.0010	103	85	115			
Molybdenum	0.0506	mg/L	0.0010	101	85	115			
Nickel	0.0496	mg/L	0.0010	99	85	115			
Silver	0.0202	mg/L	0.0010	101	85	115			
Thorium 232	0.0500	mg/L	0.0010	100	85	115			
Uranium	0.0500	mg/L	0.00030	100	85	115			
Vanadium	0.0499	mg/L	0.0010	100	85	115			
Zinc	0.0506	mg/L	0.0010	99	85	115			
Sample ID: C08091067-004BMS4	Post Digestion Spike		Run: SUB-C108572				10/02/08 03:22		
Arsenic	0.0504	mg/L	0.0010	100	70	130			
Barium	0.0987	mg/L	0.10	102	70	130			
Cadmium	0.0480	mg/L	0.010	95	70	130			
Chromium	0.0445	mg/L	0.050	89	70	130			
Copper	0.0496	mg/L	0.010	94	70	130			
Lead	0.0507	mg/L	0.050	99	70	130			
Manganese	0.0461	mg/L	0.010	88	70	130			
Mercury	0.00503	mg/L	0.0010	101	70	130			
Molybdenum	0.0523	mg/L	0.10	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: 11/20/08
Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R108572		
Sample ID: C08091067-004BMS4	Post Digestion Spike			Run: SUB-C108572			10/02/08 03:22		
Nickel	0.0479	mg/L	0.050	92	70	130			
Silver	0.0134	mg/L	0.010	67	70	130			S
Thorium 232	0.0515	mg/L	0.0010	103	70	130			
Uranium	0.0695	mg/L	0.00030	105	70	130			
Vanadium	0.0463	mg/L	0.10	91	70	130			
Zinc	0.0611	mg/L	0.010	98	70	130			
Sample ID: C08091067-004BMSD4	Post Digestion Spike Duplicate			Run: SUB-C108572			10/02/08 03:56		
Arsenic	0.0500	mg/L	0.0010	99	70	130	1	20	
Barium	0.0983	mg/L	0.10	101	70	130	0	20	
Cadmium	0.0481	mg/L	0.010	95	70	130	0.1	20	
Chromium	0.0452	mg/L	0.050	90	70	130	0	20	
Copper	0.0488	mg/L	0.010	92	70	130	1.6	20	
Lead	0.0486	mg/L	0.050	95	70	130	0	20	
Manganese	0.0463	mg/L	0.010	88	70	130	0.5	20	
Mercury	0.00484	mg/L	0.0010	97	70	130	3.9	20	
Molybdenum	0.0518	mg/L	0.10	101	70	130	0	20	
Nickel	0.0481	mg/L	0.050	92	70	130	0	20	
Silver	0.0140	mg/L	0.010	70	70	130	3.8	20	
Thorium 232	0.0497	mg/L	0.0010	99	70	130	3.4	20	
Uranium	0.0675	mg/L	0.00030	101	70	130	2.8	20	
Vanadium	0.0466	mg/L	0.10	92	70	130	0	20	
Zinc	0.0587	mg/L	0.010	94	70	130	4	20	
Sample ID: R08090356-009C	Post Digestion Spike			Run: SUB-C108572			10/02/08 05:38		
Arsenic	0.0488	mg/L	0.0010	98	70	130			
Barium	0.0462	mg/L	0.10	92	70	130			
Cadmium	0.0483	mg/L	0.010	96	70	130			
Chromium	0.0454	mg/L	0.050	90	70	130			
Copper	0.0483	mg/L	0.010	97	70	130			
Lead	0.0475	mg/L	0.050	95	70	130			
Manganese	0.0458	mg/L	0.010	91	70	130			
Mercury	0.00473	mg/L	0.0010	95	70	130			
Molybdenum	0.0480	mg/L	0.10	96	70	130			
Nickel	0.0484	mg/L	0.050	97	70	130			
Silver	0.0156	mg/L	0.010	78	70	130			
Thorium 232	0.0470	mg/L	0.0010	94	70	130			
Uranium	0.0480	mg/L	0.00030	96	70	130			
Vanadium	0.0452	mg/L	0.10	90	70	130			
Zinc	0.0511	mg/L	0.010	101	70	130			
Sample ID: R08090356-009C	Post Digestion Spike Duplicate			Run: SUB-C108572			10/02/08 05:45		
Arsenic	0.0495	mg/L	0.0010	99	70	130	1.5	20	
Barium	0.0459	mg/L	0.10	92	70	130	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: 11/20/08
 Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R108572		
Sample ID: R08090356-009C	Post Digestion Spike Duplicate			Run: SUB-C108572			10/02/08 05:45		
Cadmium	0.0486	mg/L	0.010	97	70	130	0.7	20	
Chromium	0.0458	mg/L	0.050	91	70	130	0	20	
Copper	0.0499	mg/L	0.010	100	70	130	3.3	20	
Lead	0.0480	mg/L	0.050	96	70	130	0	20	
Manganese	0.0463	mg/L	0.010	92	70	130	1.1	20	
Mercury	0.00487	mg/L	0.0010	97	70	130	2.9	20	
Molybdenum	0.0474	mg/L	0.10	95	70	130	0	20	
Nickel	0.0492	mg/L	0.050	98	70	130	0	20	
Silver	0.0137	mg/L	0.010	68	70	130	13	20	S
Thorium 232	0.0474	mg/L	0.0010	95	70	130	0.8	20	
Uranium	0.0480	mg/L	0.00030	96	70	130	0.1	20	
Vanadium	0.0454	mg/L	0.10	91	70	130	0	20	
Zinc	0.0525	mg/L	0.010	103	70	130	2.7	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: 11/20/08
Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R108712		
Sample ID: LRB	Method Blank		Run: SUB-C108712				10/03/08 13:41		
Antimony	ND	mg/L	7E-05						
Arsenic	ND	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Beryllium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	5E-05	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	ND	mg/L	5E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	3E-05						
Strontium	ND	mg/L	3E-05						
Thallium	ND	mg/L	1E-05						
Uranium	ND	mg/L	1E-05						
Zinc	ND	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C108712				10/03/08 13:48		
Antimony	0.0493	mg/L	0.0010	99	85	115			
Arsenic	0.0500	mg/L	0.0010	100	85	115			
Barium	0.0500	mg/L	0.0010	100	85	115			
Beryllium	0.0484	mg/L	0.0010	97	85	115			
Cadmium	0.0504	mg/L	0.0010	101	85	115			
Chromium	0.0493	mg/L	0.0010	98	85	115			
Copper	0.0520	mg/L	0.0010	104	85	115			
Lead	0.0496	mg/L	0.0010	99	85	115			
Manganese	0.0492	mg/L	0.0010	98	85	115			
Molybdenum	0.0510	mg/L	0.0010	102	85	115			
Nickel	0.0506	mg/L	0.0010	101	85	115			
Selenium	0.0498	mg/L	0.0010	100	85	115			
Silver	0.0203	mg/L	0.0010	101	85	115			
Strontium	0.0503	mg/L	0.0010	100	85	115			
Thallium	0.0498	mg/L	0.0010	100	85	115			
Uranium	0.0500	mg/L	0.00030	100	85	115			
Zinc	0.0530	mg/L	0.0010	106	85	115			
Sample ID: R08090356-009D	Post Digestion Spike		Run: SUB-C108712				10/03/08 18:12		
Antimony	0.0527	mg/L	0.050	105	70	130			
Arsenic	0.0494	mg/L	0.0010	99	70	130			
Barium	0.0485	mg/L	0.10	97	70	130			
Beryllium	0.0459	mg/L	0.010	92	70	130			
Cadmium	0.0490	mg/L	0.010	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: 11/20/08
Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R108712		
Sample ID: R08090356-009D	Post Digestion Spike			Run: SUB-C108712			10/03/08 18:12		
Chromium	0.0485	mg/L	0.050	96	70	130			
Copper	0.0489	mg/L	0.010	98	70	130			
Lead	0.0489	mg/L	0.050	98	70	130			
Manganese	0.0490	mg/L	0.010	97	70	130			
Molybdenum	0.0499	mg/L	0.10	100	70	130			
Nickel	0.0484	mg/L	0.050	97	70	130			
Selenium	0.0488	mg/L	0.0010	98	70	130			
Silver	0.0133	mg/L	0.010	66	70	130			S
Strontium	0.0506	mg/L	0.10	101	70	130			
Thallium	0.0491	mg/L	0.10	98	70	130			
Uranium	0.0498	mg/L	0.00030	100	70	130			
Zinc	0.0508	mg/L	0.010	99	70	130			
Sample ID: R08090356-009D	Post Digestion Spike Duplicate			Run: SUB-C108712			10/03/08 18:18		
Antimony	0.0538	mg/L	0.050	108	70	130	2.1	20	
Arsenic	0.0495	mg/L	0.0010	99	70	130	0.2	20	
Barium	0.0491	mg/L	0.10	98	70	130	0	20	
Beryllium	0.0462	mg/L	0.010	92	70	130	0.8	20	
Cadmium	0.0491	mg/L	0.010	98	70	130	0.3	20	
Chromium	0.0496	mg/L	0.050	98	70	130	0	20	
Copper	0.0493	mg/L	0.010	99	70	130	0.7	20	
Lead	0.0495	mg/L	0.050	99	70	130	0	20	
Manganese	0.0502	mg/L	0.010	99	70	130	2.3	20	
Molybdenum	0.0506	mg/L	0.10	101	70	130	0	20	
Nickel	0.0485	mg/L	0.050	97	70	130	0	20	
Selenium	0.0505	mg/L	0.0010	101	70	130	3.5	20	
Silver	0.0137	mg/L	0.010	69	70	130	3.4	20	S
Strontium	0.0506	mg/L	0.10	101	70	130	0	20	
Thallium	0.0498	mg/L	0.10	100	70	130	0	20	
Uranium	0.0499	mg/L	0.00030	100	70	130	0.2	20	
Zinc	0.0512	mg/L	0.010	100	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: 11/20/08
 Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: B_34943		
Sample ID: MB-34943	Method Blank					Run: SUB-B118320		09/29/08 11:38	
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-34943	Laboratory Fortified Blank					Run: SUB-B118320		09/29/08 11:48	
Mercury	0.0021	mg/L	0.0010	104	85	115			
Sample ID: B08092540-004FMS	Sample Matrix Spike					Run: SUB-B118320		09/29/08 12:00	
Mercury	0.0023	mg/L	0.0010	114	70	130			
Sample ID: B08092540-004FMSD	Sample Matrix Spike Duplicate					Run: SUB-B118320		09/29/08 12:02	
Mercury	0.0022	mg/L	0.0010	112	70	130	1.3	30	
Sample ID: R08090356-006D	Sample Matrix Spike					Run: SUB-B118320		09/29/08 12:32	
Mercury	0.0019	mg/L	0.0010	94	70	130			
Sample ID: R08090356-006D	Sample Matrix Spike Duplicate					Run: SUB-B118320		09/29/08 12:34	
Mercury	0.0022	mg/L	0.0010	110	70	130	16	30	
Method: E245.1							Batch: B_35111		
Sample ID: MB-35111	Method Blank					Run: SUB-B118836		10/08/08 13:44	
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-35111	Laboratory Fortified Blank					Run: SUB-B118836		10/08/08 13:53	
Mercury	0.0019	mg/L	0.0010	96	85	115			
Sample ID: B08100331-001CMS	Sample Matrix Spike					Run: SUB-B118836		10/08/08 14:01	
Mercury	0.00191	mg/L	0.0010	96	70	130			
Sample ID: B08100331-001CMSD	Sample Matrix Spike Duplicate					Run: SUB-B118836		10/08/08 14:03	
Mercury	0.00193	mg/L	0.0010	97	70	130	1	30	
Method: E245.1							Analytical Run: SUB-B118320		
Sample ID: QCS	Initial Calibration Verification Standard							09/29/08 09:22	
Mercury	0.0018	mg/L	0.0010	92	90	110			
Method: E245.1							Analytical Run: SUB-B118836		
Sample ID: QCS	Initial Calibration Verification Standard							10/08/08 13:35	
Mercury	0.0019	mg/L	0.0010	94	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/20/08

Project: Edgemont

Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R37676		
Sample ID: LFB0809250635-3	Laboratory Fortified Blank			Run: DIONEX_080925A			09/25/08 12:11		
Chloride	4.94	mg/L	0.50	99	90	110			
Fluoride	2.07	mg/L	0.10	103	90	110			
Nitrogen, Nitrate as N	2.40	mg/L	0.10	96	90	110			
Nitrogen, Nitrite as N	2.51	mg/L	0.10	100	90	110			
Sulfate	14.9	mg/L	1.0	99	90	110			
Sample ID: LFB0809250635-4	Laboratory Fortified Blank			Run: DIONEX_080925A			09/25/08 12:28		
Chloride	4.83	mg/L	0.50	97	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			
Nitrogen, Nitrite as N	2.44	mg/L	0.10	98	90	110			
Sulfate	14.6	mg/L	1.0	97	90	110			
Sample ID: R08090356-001AMS	Sample Matrix Spike			Run: DIONEX_080925A			09/25/08 13:00		
Chloride	253	mg/L	5.4	92	80	120			
Fluoride	104	mg/L	0.56	98	80	120			
Nitrogen, Nitrate as N	120	mg/L	1.3	96	80	120			
Nitrogen, Nitrite as N	126	mg/L	2.9	101	80	120			
Sulfate	1070	mg/L	3.4	95	80	120			
Sample ID: R08090356-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080925A			09/25/08 13:17		
Chloride	243	mg/L	5.4	88	80	120	4.1	10	
Fluoride	100	mg/L	0.56	93	80	120	4.2	10	
Nitrogen, Nitrate as N	115	mg/L	1.3	92	80	120	4.6	10	
Nitrogen, Nitrite as N	120	mg/L	2.9	96	80	120	4.7	10	
Sulfate	1050	mg/L	3.4	91	80	120	2.5	10	
Sample ID: R08090356-005AMS	Sample Matrix Spike			Run: DIONEX_080925A			09/25/08 16:17		
Chloride	259	mg/L	5.4	92	80	120			
Fluoride	105	mg/L	0.56	98	80	120			
Nitrogen, Nitrate as N	120	mg/L	1.3	96	80	120			
Nitrogen, Nitrite as N	126	mg/L	2.9	101	80	120			
Sulfate	1210	mg/L	3.4	90	80	120			
Sample ID: R08090356-005AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080925A			09/25/08 16:34		
Chloride	250	mg/L	5.4	88	80	120	3.7	10	
Fluoride	102	mg/L	0.56	95	80	120	2.9	10	
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120	3.4	10	
Nitrogen, Nitrite as N	123	mg/L	2.9	98	80	120	2.9	10	
Sulfate	1180	mg/L	3.4	87	80	120	2.3	10	
Sample ID: R08090331-001AMS	Sample Matrix Spike			Run: DIONEX_080925A			09/25/08 19:51		
Chloride	316	mg/L	5.4	92	80	120			
Fluoride	102	mg/L	0.56	96	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/20/08

Project: Edgemont

Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R37676		
Sample ID: R08090331-001AMS	Sample Matrix Spike				Run: DIONEX_080925A		09/25/08 19:51		
Nitrogen, Nitrate as N	301	mg/L	1.3	110	80	120			
Nitrogen, Nitrite as N	125	mg/L	2.9	100	80	120			
Sulfate	10200	mg/L	3.4		80	120			A
Sample ID: R08090331-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080925A		09/25/08 20:07		
Chloride	307	mg/L	5.4	88	80	120	3	10	
Fluoride	99.8	mg/L	0.56	94	80	120	2.7	10	
Nitrogen, Nitrate as N	289	mg/L	1.3	101	80	120	3.9	10	
Nitrogen, Nitrite as N	121	mg/L	2.9	97	80	120	3	10	
Sulfate	9720	mg/L	3.4		80	120	4.5	10	A
Method: E300.0							Batch: R37751		
Sample ID: LFB0809262754-3	Laboratory Fortified Blank				Run: DIONEX_080926A		09/26/08 18:29		
Sulfate	14.8	mg/L	1.0	99	90	110			
Sample ID: LFB0809262754-4	Laboratory Fortified Blank				Run: DIONEX_080926A		09/26/08 18:45		
Sulfate	14.6	mg/L	1.0	97	90	110			
Sample ID: R08090360-006BMS	Sample Matrix Spike				Run: DIONEX_080926A		09/26/08 22:35		
Sulfate	735	mg/L	1.3	89	80	120			
Sample ID: R08090360-006BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080926A		09/26/08 22:51		
Sulfate	736	mg/L	1.3	89	80	120	0.1	10	

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/20/08
 Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0547		
Sample ID: MB-GrAB-0547	Method Blank				Run: SUB-C110134				10/30/08 01:42
Gross Alpha	0.1	pCi/L							U
Gross Beta	-1	pCi/L							U
Sample ID: UNAT-GrAB-0547	Laboratory Control Sample				Run: SUB-C110134				10/30/08 01:42
Gross Alpha	150	pCi/L		108	70	130			
Sample ID: Cs137-GrAB-0547	Laboratory Control Sample				Run: SUB-C110134				10/30/08 01:42
Gross Beta	88	pCi/L		96	70	130			
Sample ID: C08091239-001BMS	Sample Matrix Spike				Run: SUB-C110134				10/31/08 07:50
Gross Alpha	151	pCi/L		106	70	130			
Sample ID: C08091239-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C110134				10/31/08 07:50
Gross Alpha	146	pCi/L		103	70	130	3	17.5	
Sample ID: C08091239-001BMS	Sample Matrix Spike				Run: SUB-C110134				10/31/08 07:50
Gross Beta	87.8	pCi/L		94	70	130			
Sample ID: C08091239-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C110134				10/31/08 07:50
Gross Beta	77.8	pCi/L		83	70	130	12	16.4	
Method: E901.1							Batch: C_R109497		
Sample ID: MB-R109497	Method Blank				Run: SUB-C109497				10/13/08 15:50
Gross Gamma		pCi/L							
Sample ID: LCS-R109497	Laboratory Control Sample				Run: SUB-C109497				10/13/08 15:50
Cesium 137	46000	pCi/L	20	106	70	130			
Cobalt 60	32000	pCi/L	20	102	70	130			
Sample ID: R08090356-007H	Sample Duplicate				Run: SUB-C109497				10/13/08 15:50
Gross Gamma	960	pCi/L					0.2	30	
Method: E903.0							Batch: C_R109056		
Sample ID: C08090526-001AMS	Sample Matrix Spike				Run: SUB-C109056				10/09/08 12:39
Radium 226	9.0	pCi/g-dry		80	70	130			
Sample ID: C08090526-001AMS D	Sample Matrix Spike Duplicate				Run: SUB-C109056				10/09/08 12:39
Radium 226	8.8	pCi/g-dry		82	70	130	1.5	20.9	
Sample ID: LCS-19954	Laboratory Control Sample				Run: SUB-C109056				10/09/08 12:39
Radium 226	0.015	pCi/g-dry		95	70	130			
Sample ID: MB-19954	Method Blank				Run: SUB-C109056				10/09/08 12:39
Radium 226	0.0001	pCi/g-dry							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: 11/20/08
 Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-3147		
Sample ID: C08091069-001DMS	Sample Matrix Spike				Run: SUB-C109588		10/21/08 10:02		
Radium 226	20	pCi/L	125	70	130				
Sample ID: C08091069-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C109588		10/21/08 10:02		
Radium 226	23	pCi/L	145	70	130	14	24.4	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: MB-RA226-3147	Method Blank				Run: SUB-C109588		10/21/08 11:39		
Radium 226	-0.2	pCi/L							U
Sample ID: LCS-RA226-3147	Laboratory Control Sample				Run: SUB-C109588		10/21/08 11:39		
Radium 226	10.0	pCi/L	129	70	130				
Method: E907.0							Batch: C_19925		
Sample ID: C08090975-001IMS	Sample Matrix Spike				Run: SUB-C109263		09/30/08 16:00		
Thorium 230	12.4	pCi/L	0.20	114	70	130			
Sample ID: C08090975-001IMSD	Sample Matrix Spike Duplicate				Run: SUB-C109263		09/30/08 16:00		
Thorium 230	15.8	pCi/L	0.20	139	70	130	24	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-19925	Laboratory Control Sample				Run: SUB-C109263		09/30/08 16:00		
Thorium 230	19.5	pCi/L	0.20	86	70	130			
Sample ID: MB-19925	Method Blank				Run: SUB-C109263		09/30/08 16:00		
Thorium 230	-1	pCi/L							U
Method: E907.0							Batch: C_R109681		
Sample ID: LCS-19876	Laboratory Control Sample				Run: SUB-C109681		09/30/08 15:00		
Thorium 230	2.5E-05	uCi/kg	2.0E-07	101	70	130			
Sample ID: MB-19876	Method Blank				Run: SUB-C109681		09/30/08 15:00		
Thorium 230	ND	uCi/kg							0.1
Sample ID: R08090356-008I	Sample Matrix Spike				Run: SUB-C109681		09/30/08 15:00		
Thorium 230	18.8	pCi/L	0.20	164	70	130			S
- Spike response is outside of the acceptance range for this analysis.									
Sample ID: R08090356-008I	Sample Matrix Spike Duplicate				Run: SUB-C109681		09/30/08 15:00		
Thorium 230	12.5	pCi/L	0.20	104	70	130	40	30	R

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: 11/20/08

Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0663		
Sample ID: LCS-RA-TH-ISO-0663	Laboratory Control Sample					Run: SUB-C110176			10/27/08 15:37
Thorium 230	5.43	pCi/L	0.20	91	70	130			
Sample ID: R08090356-001H	Sample Matrix Spike					Run: SUB-C110176			10/27/08 15:37
Thorium 230	16.4	pCi/L	0.20	101	70	130			
Sample ID: R08090356-001H	Sample Matrix Spike Duplicate					Run: SUB-C110176			10/27/08 15:37
Thorium 230	13.6	pCi/L	0.20	84	70	130	18	39.9	
Sample ID: MB-RA-TH-ISO-0663	Method Blank					Run: SUB-C110176			10/28/08 07:52
Thorium 230	0.02	pCi/L							U
Method: E909.0M							Batch: C_19925		
Sample ID: C08090341-005AMS	Sample Matrix Spike					Run: SUB-C108927			10/01/08 08:40
Lead 210	1210	pCi/Filter		56	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: C08090341-005AMSD	Sample Matrix Spike Duplicate					Run: SUB-C108927			10/01/08 08:40
Lead 210	1430	pCi/Filter		75	70	130	17	30	
Sample ID: MB-R108927	Method Blank					Run: SUB-C108927			10/01/08 08:40
Lead 210	1	pCi/L							U
Sample ID: LCS-R108927	Laboratory Control Sample					Run: SUB-C108927			10/01/08 08:40
Lead 210	120	pCi/L		106	70	130			
Method: E909.0M							Batch: C_19926		
Sample ID: R08090356-006I	Sample Matrix Spike					Run: SUB-C109587			10/13/08 10:21
Lead 210	1200	pCi/L		101	70	130			
Sample ID: R08090356-006I	Sample Matrix Spike Duplicate					Run: SUB-C109587			10/13/08 10:21
Lead 210	1200	pCi/L		101	70	130	0.3	30	
Sample ID: MB-R109587	Method Blank					Run: SUB-C109587			10/13/08 10:21
Lead 210	1	pCi/L							U
Sample ID: LCS-R109587	Laboratory Control Sample					Run: SUB-C109587			10/13/08 10:21
Lead 210	110	pCi/L		89	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: 11/20/08
Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R109120		
Sample ID: C08090975-005HMS	Sample Matrix Spike				Run: SUB-C109120		10/02/08 10:37		
Lead 210	640	pCi/L	111		70	130			
Sample ID: C08090975-005HMSD	Sample Matrix Spike Duplicate				Run: SUB-C109120		10/02/08 10:37		
Lead 210	450	pCi/L	77		70	130	36	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: R08090356-005H	Sample Duplicate				Run: SUB-C109120		10/02/08 10:37		
Lead 210	1.9	pCi/L					2100	30	UR
Lead 210 MDC	9.0	pCi/L							
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R109120	Method Blank				Run: SUB-C109120		10/02/08 10:37		
Lead 210	-0.8	pCi/L							U
Sample ID: LCS-R109120	Laboratory Control Sample				Run: SUB-C109120		10/02/08 10:37		
Lead 210	120	pCi/L	101		70	130			
Method: RMO-3008							Batch: C_PO210-0149		
Sample ID: R08090356-009J	Sample Matrix Spike				Run: SUB-C109078		10/02/08 14:54		
Polonium 210	44	pCi/L	1.0	102	70	130			
Sample ID: R08090356-009J	Sample Matrix Spike Duplicate				Run: SUB-C109078		10/02/08 14:54		
Polonium 210	55	pCi/L	1.0	128	70	130	22	61.7	
Sample ID: LCS-PO210-0149	Laboratory Control Sample				Run: SUB-C109078		10/03/08 08:57		
Polonium 210	41	pCi/L	1.0	95	70	130			
Sample ID: MB-PO210-0149	Method Blank				Run: SUB-C109078		10/03/08 08:57		
Polonium 210	0.07	pCi/L							U
Method: RMO-3008							Batch: C_R109370		
Sample ID: LCS-19925	Laboratory Control Sample				Run: SUB-C109370		10/09/08 12:31		
Polonium 210	170	pCi/L	1.0	98	70	130			
Sample ID: MB-19925	Method Blank				Run: SUB-C109370		10/09/08 12:31		
Polonium 210	0.3	pCi/L							U
Sample ID: R08090356-009I	Sample Matrix Spike				Run: SUB-C109370		10/09/08 12:31		
Polonium 210	340	pCi/L	1.0	101	70	130			
Sample ID: R08090356-009I	Sample Matrix Spike Duplicate				Run: SUB-C109370		10/09/08 12:31		
Polonium 210	320	pCi/L	1.0	95	70	130	5.8	47.6	

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

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



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: <i>Scott Environmental</i>		Project Name, PWS, Permit, Etc. <i>Powderfoot DB</i>		Sample Origin State: <u> </u>	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: <i>RESPEC</i>		Contact Name: <i>Allen Scott</i>		Email: <i>Allen Scott</i>	Sampler: (Please Print) <i>Allen Scott</i>
Invoice Address:		Invoice Contact & Phone:		Purchase Order:	Quoter/Bottle Order: <i>Allen Scott</i>
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/MWTP <input type="checkbox"/> State: <u> </u> <input type="checkbox"/> Other: <u> </u>			<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <u> </u> <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		
Number of Containers Sample Type: AWS V B O Air Water Soils/Solids Vegetation Bioassay Other		ANALYSIS REQUESTED			
MATRIX		SEE ATTACHED			
Normal Turnaround (TAT)		R U S H			
Comments:		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page			
Shipped by:		Cooler Dtg:			
Receipt Temp <i>3.8</i> °C		On Ice Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Custody Seal Intact Y N Signature Y N March Y N		Custody Seal Intact Y N Signature Y N March Y N			
LABORATORY USE ONLY					
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED	Normal Turnaround (TAT)
1 Dew Burd 6W 689	9-2-23	13:43	Water		
2 Dew Burd 6W 689	9-2-23	13:55	Water		
3 Dew Burd 6W 704	9-2-23	12:30	Water		
4 Dew Burd 6W 697	9-2-23	11:45	Water		
5 Dew Burd 6W 694	9-2-23	10:00	Water		
6 Dew Burd 6W 696	9-2-23	9:35	Water		
7 Dew Burd 6W 695	9-2-23	11:00	Water		
8 Dew Burd 6W 695	9-2-23	11:25	Water		
9 Dew Burd 6W 302	9-2-23	15:10	Water		
10 Dew Burd 6W 302	9-2-23	15:10	Water		
Custody Record MUST be Signed	Requested by (print): <i>Allen Scott</i>	Date/Time: 9-2-23 10:21 AM	Signature: <i>Allen Scott</i>	Requested by (print): <i>Erinick Scott</i>	Date/Time: 9-24-23 03:47 AM
Sample Disposal:	Return to Client:	Lab Disposal:	Signature: <i>Erinick Scott</i>	Requested by (print): <i>Erinick Scott</i>	Date/Time: 9-24-23 08:15:46

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



ANALYTICAL SUMMARY REPORT

December 29, 2008

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

Workorder No.: R08100014 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample for RESPEC Inc on 10/1/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08100014-001	DewBurd GW688	09/30/08 8:30	10/01/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

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



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100014-001
Client Sample ID: DewBurd GW688

Report Date: 12/29/08
Collection Date: 09/30/08 08:30
Date Received: 10/01/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B 10/02/08 15:33/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 10/02/08 15:33/mb
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B 10/02/08 15:33/mb
Calcium	52.4	mg/L		0.5		2	E200.7 10/13/08 18:09/eli-c
Chloride	11	mg/L		1		1	E300.0 10/02/08 04:44/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0 10/02/08 04:44/jmh
Magnesium	21.8	mg/L		0.5		2	E200.7 10/13/08 18:09/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G 10/06/08 13:16/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 10/02/08 04:44/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 10/02/08 04:44/jmh
Potassium	12.2	mg/L		0.5		2	E200.7 10/13/08 18:09/eli-c
Sodium	203	mg/L	D	2		2	E200.7 10/13/08 18:09/eli-c
Sulfate	422	mg/L	D	3		50	E300.0 10/02/08 05:33/jmh
Silica	75.3	mg/L		0.2		1	E200.8 10/07/08 03:58/eli-c
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1160	umhos/cm		5.0		1	A2510 B 10/06/08 15:55/tb
Oxidation-Reduction Potential	290	mV				1	A2580 B 10/07/08 00:00/jmh
pH	7.90	s.u.		0.01		1	A4500-H B 10/06/08 16:11/tb
Sodium Adsorption Ratio (SAR)	6.0	unitless		0.10		1	Calculation 12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	790	mg/L		5		1	A2540 C 10/06/08 10:53/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 10/22/08 23:22/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8 10/27/08 17:41/eli-c
Barium	ND	mg/L		0.1		1	E200.8 10/07/08 03:58/eli-c
Boron	ND	mg/L		0.1		2	E200.7 10/13/08 18:09/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 10/07/08 03:58/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 10/07/08 03:58/eli-c
Copper	ND	mg/L		0.01		1	E200.8 10/08/08 14:48/eli-c
Iron	0.04	mg/L		0.03		2	E200.7 10/13/08 18:09/eli-c
Lead	ND	mg/L		0.001		1	E200.8 10/07/08 03:58/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8 10/07/08 03:58/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 10/07/08 03:58/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 10/07/08 03:58/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 10/07/08 03:58/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 10/20/08 11:44/eli-c
Silver	ND	mg/L		0.005		1	E200.8 10/22/08 23:22/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 10/08/08 14:48/eli-c

Report RL - Analyte reporting limit.
Definitions: 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: R08100014-001
 Client Sample ID: DewBurd GW688

Report Date: 12/29/08
 Collection Date: 09/30/08 08:30
 Date Received: 10/01/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	ND	mg/L		0.0003		1	E200.8 10/08/08 14:48/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 10/07/08 03:58/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 10/08/08 14:48/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 10/31/08 03:05/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 10/20/08 09:45/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 10/20/08 12:04/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	4.9	pCi/L				1	E900.0 11/05/08 13:06/eli-ca
Gross Alpha precision (±)	2.5	pCi/L				1	E900.0 11/05/08 13:06/eli-ca
Gross Alpha MDC	3.5	pCi/L				1	E900.0 11/05/08 13:06/eli-ca
Gross Beta	10.9	pCi/L				1	E900.0 11/05/08 13:06/eli-ca
Gross Beta precision (±)	2.6	pCi/L				1	E900.0 11/05/08 13:06/eli-ca
Gross Beta MDC	4.1	pCi/L				1	E900.0 11/05/08 13:06/eli-ca
Lead 210	-0.1	pCi/L	U			1	E909.0M 10/20/08 10:13/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M 10/20/08 10:13/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M 10/20/08 10:13/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008 10/09/08 09:08/eli-c
Polonium 210 precision (±)	0.36	pCi/L				1	RMO-3008 10/09/08 09:08/eli-c
Radium 226	0.6	pCi/L				1	E903.0 10/23/08 16:38/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0 10/23/08 16:38/eli-c
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0 10/24/08 08:42/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0 10/24/08 08:42/eli-c
Gross Gamma	230	pCi/L				1	E901.1 10/13/08 15:50/eli-c
Gross Gamma precision (±)	84	pCi/L				1	E901.1 10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	1.2	pCi/L	U			1	E909.0M 10/16/08 10:00/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M 10/16/08 10:00/eli-c
Lead 210 MDC	8.6	pCi/L				1	E909.0M 10/16/08 10:00/eli-c
Polonium 210	0.15	pCi/L	U			1	RMO-3008 10/23/08 08:48/eli-c
Polonium 210 precision (±)	0.36	pCi/L				1	RMO-3008 10/23/08 08:48/eli-c
Radium 226	0.09	pCi/L	U			1	E903.0 10/20/08 12:48/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0 10/20/08 12:48/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0 10/20/08 12:48/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08100014-001
 Client Sample ID: DewBurd GW688

Report Date: 12/29/08
 Collection Date: 09/30/08 08:30
 Date Received: 10/01/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0	10/15/08 16:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	10/15/08 16:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	535	pCi/L	H	100		1	D5072-92	10/10/08 10:07/eli-c
Radon 222 precision (±)	219	pCi/L	H			1	D5072-92	10/10/08 10:07/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	10/09/08 13:33/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/29/08 20:58/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/09/08 13:33/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	10/09/08 13:33/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/13/08 20:47/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/09/08 13:33/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/09/08 13:33/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/09/08 13:33/eli-c
Iron	0.19	mg/L		0.03		2	E200.7	10/13/08 20:47/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/09/08 13:33/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	10/09/08 13:33/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/06/08 15:37/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	10/09/08 13:33/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/09/08 13:33/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/09/08 13:33/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/09/08 13:33/eli-c
Strontium	1.3	mg/L		0.1		1	E200.8	10/09/08 13:33/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	10/09/08 13:33/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	10/09/08 13:33/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/09/08 13:33/eli-c
DATA QUALITY								
A/C Balance (± 5)	4.37	%				1	A1030 E	12/10/08 00:00/jmh
Anions	12.4	meq/L				1	A1030 E	12/10/08 00:00/jmh
Cations	13.6	meq/L				1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	1030	mg/L				1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.770					1	A1030 E	12/10/08 00:00/jmh

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.
 H - Analysis performed past recommended holding time.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/29/08
Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 081002A-ALK-SEL-W		
Sample ID: LCS1_081002A Alkalinity, Total as CaCO3	Laboratory Control Sample 960	mg/L	5.0	96	90	110			Run: PH_COND1-R_081003B 10/02/08 12:07
Sample ID: MBLK1_081002A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_081003B 10/02/08 12:08
Sample ID: R08090361-003AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 244	mg/L	5.0	89	80	120			Run: PH_COND1-R_081003B 10/02/08 14:55
Sample ID: R08090361-003AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 246	mg/L	5.0	91	80	120	0.8	10	Run: PH_COND1-R_081003B 10/02/08 14:59
Method: A2510 B							Batch: 081006_1_COND-PROBE-W		
Sample ID: LCS_COND-1_081006 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_081006A 10/06/08 15:47
Sample ID: LCS1-1_081006 Conductivity @ 25 C	Laboratory Control Sample 148	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_081006A 10/06/08 15:48
Sample ID: LCS2-1_081006 Conductivity @ 25 C	Laboratory Control Sample 4900	umhos/cm	5.0	98	90	110			Run: PH_COND2-R_081006A 10/06/08 15:49
Sample ID: MBLK-1_081006 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_081006A 10/06/08 15:50
Sample ID: R08100058-001BDUP Conductivity @ 25 C	Sample Duplicate 2740	umhos/cm	5.0				0	10	Run: PH_COND2-R_081006A 10/06/08 15:59
Method: A2540 C							Batch: 081006A-SLDS-TDS-W		
Sample ID: LCS1_081006A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 220	mg/L	5.0	108	90	110			Run: BAL-4-R_081006A 10/06/08 10:45
Sample ID: MBLK1_081006A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						Run: BAL-4-R_081006A 10/06/08 10:46
Sample ID: R08100031-001AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 5600	mg/L	5.0	145	80	120			Run: BAL-4-R_081006A 10/06/08 10:54 S
Sample ID: R08100031-001AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 5600	mg/L	5.0	115	80	120	1.1	10	Run: BAL-4-R_081006A 10/06/08 10:54

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: 12/29/08
 Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 081007-ORP-ISE-W		
Sample ID: LCS Oxidation-Reduction Potential	Laboratory Control Sample 470	mV		100	95	105			10/07/08 00:00
Sample ID: R08100014-001F Oxidation-Reduction Potential	Sample Duplicate 300	mV					1.4	10	10/07/08 00:00
Method: A3114 B							Batch: C_SE3114-081020A		
Sample ID: MBLK Selenium-IV	Method Blank ND	mg/L	0.0003						10/20/08 09:40
Sample ID: 288-155-2 Selenium-IV	Laboratory Control Sample 0.052	mg/L	0.0010	105	90	110			10/20/08 09:42
Sample ID: R08100014-001E Selenium-IV	Sample Matrix Spike 0.052	mg/L	0.0010	105	85	115			10/20/08 09:47
Sample ID: R08100014-001E Selenium-IV	Sample Matrix Spike Duplicate 0.052	mg/L	0.0010	104	85	115	0.7	10	10/20/08 09:50
Method: A3114 B							Batch: C_SE3114-081020B		
Sample ID: MBLK Selenium	Method Blank 0.0005	mg/L	0.0003						10/20/08 11:30
Sample ID: 288-155-2 Selenium	Laboratory Control Sample 0.047	mg/L	0.0010	93	90	110			10/20/08 11:42
Sample ID: R08100014-001E Selenium	Sample Matrix Spike 0.048	mg/L	0.0010	96	85	115			10/20/08 11:47
Sample ID: R08100014-001E Selenium	Sample Matrix Spike Duplicate 0.049	mg/L	0.0010	99	85	115	2.7	15	10/20/08 11:49
Method: A4500-H B							Batch: 081006_1-PH-W		
Sample ID: LCS_pH-1_081006 pH	Laboratory Control Sample 6.79	s.u.	0.010	99	98.55	101.45			10/06/08 16:10
Sample ID: R08100058-001BDUP pH	Sample Duplicate 8.19	s.u.	0.010				0.5	1.25	10/06/08 16:16

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-10-06_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01			Run: TECHAA2-R_081006A			10/06/08 10:19
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	105	90	110			10/06/08 10:20
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.25	mg/L	0.10	102	90	110			10/06/08 10:21
Sample ID: R08100014-001BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.46	mg/L	0.10	117	80	120			10/06/08 13:17
Sample ID: R08100014-001BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.48	mg/L	0.10	123	80	120	3	10	10/06/08 13:18 S
Method: D5072-92							Batch: C_R109123		
Sample ID: C08100356-011CDUP Radon 222	Sample Duplicate 934	pCi/L	100			Run: SUB-C109123	8.3	30	10/10/08 10:07
Sample ID: C08100436-001ADUP Radon 222	Sample Duplicate 595	pCi/L	100			Run: SUB-C109123	8	30	10/10/08 10:07
Sample ID: MB-R109123 Radon 222	Method Blank 10	pCi/L				Run: SUB-C109123			10/10/08 10:07 U
Sample ID: LCS-R109123 Radon 222	Laboratory Control Sample 303	pCi/L	100	96	70	130			10/10/08 10:07

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

Report Date: 12/29/08

Project: Edgemont

Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R109160		
Sample ID: MB-081013A	Method Blank		Run: SUB-C109160			10/13/08 14:14			
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-081013A	Laboratory Fortified Blank		Run: SUB-C109160			10/13/08 14:19			
Boron	0.99	mg/L	0.10	99	85	115			
Calcium	52	mg/L	0.50	105	85	115			
Iron	1.1	mg/L	0.030	107	85	115			
Magnesium	52	mg/L	0.50	105	85	115			
Potassium	45	mg/L	0.50	91	85	115			
Sodium	50	mg/L	0.77	99	85	115			
Sample ID: C08100150-002BMS2	Sample Matrix Spike		Run: SUB-C109160			10/13/08 18:21			
Boron	1.04	mg/L	0.10	102	70	130			
Iron	1.21	mg/L	0.030	113	70	130			
Calcium	81.5	mg/L	1.0	111	70	130			
Magnesium	60.0	mg/L	1.0	110	70	130			
Potassium	47.5	mg/L	1.0	92	70	130			
Sodium	63.2	mg/L	1.0	104	70	130			
Sample ID: C08100150-002BMSD2	Sample Matrix Spike Duplicate		Run: SUB-C109160			10/13/08 18:25			
Boron	1.02	mg/L	0.10	100	70	130	1.8	20	
Iron	1.17	mg/L	0.030	109	70	130	3	20	
Calcium	79.6	mg/L	1.0	107	70	130	2.4	20	
Magnesium	58.9	mg/L	1.0	108	70	130	1.9	20	
Potassium	47.4	mg/L	1.0	92	70	130	0.2	20	
Sodium	62.5	mg/L	1.0	103	70	130	1.1	20	
Sample ID: C08100110-001BMS2	Sample Matrix Spike		Run: SUB-C109160			10/13/08 20:35			
Boron	5.56	mg/L	0.10	99	70	130			
Iron	9.92	mg/L	0.044	100	70	130			
Calcium	427	mg/L	1.0	104	70	130			
Magnesium	275	mg/L	1.0	107	70	130			
Potassium	278	mg/L	1.0	85	70	130			
Sodium	1010	mg/L	2.7	89	70	130			
Sample ID: C08100110-001BMSD2	Sample Matrix Spike Duplicate		Run: SUB-C109160			10/13/08 20:39			
Boron	5.54	mg/L	0.10	98	70	130	0.5	20	
Iron	9.98	mg/L	0.044	102	70	130	0.5	20	
Calcium	424	mg/L	1.0	103	70	130	0.6	20	
Magnesium	272	mg/L	1.0	106	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: 12/29/08
Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R109160
Sample ID: C08100110-001BMSD2	Sample Matrix Spike Duplicate					Run: SUB-C109160			10/13/08 20:39
Potassium	280	mg/L	1.0	85	70	130	0.5	20	
Sodium	1020	mg/L	2.7	91	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: 12/29/08
Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R108822		
Sample ID: LRB		Method Blank		Run: SUB-C108822			10/06/08 13:50		
Silicon	ND	mg/L	0.0001						
Barium	ND	mg/L	3E-05						
Cadmium	5E-06	mg/L	3E-06						
Chromium	ND	mg/L	4E-05						
Lead	ND	mg/L	3E-06						
Manganese	3E-05	mg/L	6E-06						
Mercury	5E-05	mg/L	1E-05						
Molybdenum	ND	mg/L	9E-06						
Nickel	ND	mg/L	3E-05						
Vanadium	ND	mg/L	3E-05						
Silica	ND	mg/L	0.0002						
Sample ID: LFB		Laboratory Fortified Blank		Run: SUB-C108822			10/06/08 13:57		
Silicon	0.216	mg/L	0.0010	108	85	115			
Barium	0.0510	mg/L	0.0010	102	85	115			
Cadmium	0.0503	mg/L	0.0010	101	85	115			
Chromium	0.0516	mg/L	0.0010	103	85	115			
Lead	0.0504	mg/L	0.0010	101	85	115			
Manganese	0.0505	mg/L	0.0010	101	85	115			
Mercury	0.00508	mg/L	0.0010	101	85	115			
Molybdenum	0.0501	mg/L	0.0010	100	85	115			
Nickel	0.0505	mg/L	0.0010	101	85	115			
Vanadium	0.0517	mg/L	0.0010	103	85	115			
Silica	0.462	mg/L	0.0021	108	85	115			
Sample ID: C08100156-001BMS4		Post Digestion Spike		Run: SUB-C108822			10/07/08 03:31		
Barium	0.554	mg/L	0.10	105	70	130			
Cadmium	0.512	mg/L	0.010	102	70	130			
Chromium	0.520	mg/L	0.050	103	70	130			
Lead	0.488	mg/L	0.050	98	70	130			
Manganese	0.500	mg/L	0.010	99	70	130			
Mercury	0.0363	mg/L	0.0010	73	70	130			
Molybdenum	0.411	mg/L	0.10	82	70	130			
Nickel	0.535	mg/L	0.050	107	70	130			
Silicon	52.4	mg/L	0.39		70	130			A
Vanadium	0.530	mg/L	0.10	106	70	130			
Silica	112	mg/L	0.84		70	130			A
Sample ID: C08100156-001BMSD4		Post Digestion Spike Duplicate		Run: SUB-C108822			10/07/08 03:37		
Barium	0.559	mg/L	0.10	106	70	130	0.8	20	
Cadmium	0.516	mg/L	0.010	103	70	130	0.9	20	
Chromium	0.523	mg/L	0.050	104	70	130	0.7	20	
Lead	0.492	mg/L	0.050	98	70	130	0.8	20	
Manganese	0.504	mg/L	0.010	100	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R108822		
Sample ID: C08100156-001BMSD4	Post Digestion Spike Duplicate			Run: SUB-C108822			10/07/08 03:37		
Mercury	0.0358	mg/L	0.0010	72	70	130	1.5	20	
Molybdenum	0.411	mg/L	0.10	82	70	130	0.1	20	
Nickel	0.538	mg/L	0.050	108	70	130	0.6	20	
Silicon	50.2	mg/L	0.39		70	130	4.2	20	A
Vanadium	0.531	mg/L	0.10	106	70	130	0.2	20	
Silica	107	mg/L	0.84		70	130	4.2	20	A

Method: E200.8							Batch: C_R108976		
Sample ID: LRB	Method Blank			Run: SUB-C108976			10/08/08 12:53		
Copper	ND	mg/L	3E-05						
Silver	5E-05	mg/L	7E-06						
Uranium	ND	mg/L	2E-06						
Zinc	0.0003	mg/L	3E-05						

Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C108976			10/08/08 13:00		
Copper	0.0514	mg/L	0.0010	103	85	115			
Silver	0.0200	mg/L	0.0010	100	85	115			
Uranium	0.0506	mg/L	0.00030	101	85	115			
Zinc	0.0524	mg/L	0.0010	104	85	115			

Sample ID: C08091107-011FMS4	Post Digestion Spike			Run: SUB-C108976			10/08/08 16:22		
Copper	0.0434	mg/L	0.010	87	70	130			
Silver	0.0114	mg/L	0.010	57	70	130			S
Thorium 232	0.0486	mg/L	0.0010	97	70	130			
Uranium	0.0521	mg/L	0.00030	99	70	130			
Zinc	0.0613	mg/L	0.010	117	70	130			

Sample ID: C08091107-011FMSD4	Post Digestion Spike Duplicate			Run: SUB-C108976			10/08/08 16:29		
Copper	0.0430	mg/L	0.010	86	70	130	1.1	20	
Silver	0.0119	mg/L	0.010	59	70	130	3.9	20	S
Thorium 232	0.0478	mg/L	0.0010	96	70	130	1.7	20	
Uranium	0.0514	mg/L	0.00030	97	70	130	1.4	20	
Zinc	0.0514	mg/L	0.010	97	70	130	17	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: 12/29/08
 Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R109039		
Sample ID: LRB	Method Blank		Run: SUB-C109039			10/09/08 12:45			
Antimony	0.0002	mg/L		4E-06					
Barium	ND	mg/L		3E-05					
Beryllium	4E-06	mg/L		4E-06					
Cadmium	6E-06	mg/L		3E-06					
Chromium	ND	mg/L		4E-05					
Copper	ND	mg/L		3E-05					
Lead	ND	mg/L		3E-06					
Manganese	ND	mg/L		6E-06					
Molybdenum	1E-05	mg/L		9E-06					
Nickel	ND	mg/L		3E-05					
Selenium	ND	mg/L		0.0001					
Silver	0.0001	mg/L		7E-06					
Strontium	ND	mg/L		2E-05					
Thallium	ND	mg/L		4E-06					
Uranium	ND	mg/L		2E-06					
Zinc	0.0003	mg/L		3E-05					
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C109039			10/09/08 12:52			
Antimony	0.0503	mg/L	0.0010	100	85	115			
Barium	0.0500	mg/L	0.0010	100	85	115			
Beryllium	0.0532	mg/L	0.0010	106	85	115			
Cadmium	0.0500	mg/L	0.0010	100	85	115			
Chromium	0.0503	mg/L	0.0010	101	85	115			
Copper	0.0506	mg/L	0.0010	101	85	115			
Lead	0.0498	mg/L	0.0010	100	85	115			
Manganese	0.0505	mg/L	0.0010	101	85	115			
Molybdenum	0.0502	mg/L	0.0010	100	85	115			
Nickel	0.0507	mg/L	0.0010	101	85	115			
Selenium	0.0499	mg/L	0.0010	100	85	115			
Silver	0.0194	mg/L	0.0010	96	85	115			
Strontium	0.0501	mg/L	0.0010	100	85	115			
Thallium	0.0500	mg/L	0.0010	100	85	115			
Uranium	0.0469	mg/L	0.00030	94	85	115			
Zinc	0.0535	mg/L	0.0010	106	85	115			
Sample ID: C08100151-017BMS4	Post Digestion Spike		Run: SUB-C109039			10/09/08 15:01			
Antimony	0.0502	mg/L	0.050	100	70	130			
Barium	0.0612	mg/L	0.10	99	70	130			
Beryllium	0.0428	mg/L	0.010	86	70	130			
Cadmium	0.0489	mg/L	0.010	98	70	130			
Chromium	0.0499	mg/L	0.050	100	70	130			
Copper	0.0476	mg/L	0.010	95	70	130			
Lead	0.0488	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: 12/29/08
 Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R109039		
Sample ID: C08100151-017BMS4	Post Digestion Spike				Run: SUB-C109039		10/09/08 15:01		
Manganese	0.0683	mg/L	0.010	98	70	130			
Molybdenum	0.0517	mg/L	0.10	103	70	130			
Nickel	0.0460	mg/L	0.050	92	70	130			
Selenium	0.0544	mg/L	0.0010	109	70	130			
Silver	0.0177	mg/L	0.010	89	70	130			
Strontium	0.205	mg/L	0.10	128	70	130			
Thallium	0.0485	mg/L	0.10	97	70	130			
Uranium	0.0485	mg/L	0.00030	96	70	130			
Zinc	0.0535	mg/L	0.010	103	70	130			
Sample ID: C08100151-017BMSD4	Post Digestion Spike Duplicate				Run: SUB-C109039		10/09/08 15:08		
Antimony	0.0497	mg/L	0.050	99	70	130	0	20	
Barium	0.0600	mg/L	0.10	97	70	130	0	20	
Beryllium	0.0426	mg/L	0.010	85	70	130	0.7	20	
Cadmium	0.0479	mg/L	0.010	96	70	130	2	20	
Chromium	0.0498	mg/L	0.050	100	70	130	0	20	
Copper	0.0467	mg/L	0.010	93	70	130	1.9	20	
Lead	0.0488	mg/L	0.050	98	70	130	0	20	
Manganese	0.0671	mg/L	0.010	95	70	130	1.8	20	
Molybdenum	0.0508	mg/L	0.10	102	70	130	0	20	
Nickel	0.0457	mg/L	0.050	91	70	130	0	20	
Selenium	0.0539	mg/L	0.0010	108	70	130	0.9	20	
Silver	0.0174	mg/L	0.010	87	70	130	1.7	20	
Strontium	0.202	mg/L	0.10	123	70	130	1.4	20	
Thallium	0.0488	mg/L	0.10	98	70	130	0	20	
Uranium	0.0487	mg/L	0.00030	96	70	130	0.4	20	
Zinc	0.0522	mg/L	0.010	101	70	130	2.5	20	
Method: E200.8							Batch: C_R109712		
Sample ID: LRB	Method Blank				Run: SUB-C109712		10/22/08 12:38		
Aluminum	0.001	mg/L	0.0001						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C109712		10/22/08 12:45		
Aluminum	0.0548	mg/L	0.0010	107	85	115			
Sample ID: C08100471-016DMS4	Post Digestion Spike				Run: SUB-C109712		10/22/08 22:41		
Aluminum	0.298	mg/L	0.10	119	70	130			
Sample ID: C08100471-016DMSD4	Post Digestion Spike Duplicate				Run: SUB-C109712		10/22/08 22:47		
Aluminum	0.295	mg/L	0.10	118	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: 12/29/08
 Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R109913		
Sample ID: LRB	Method Blank								
Arsenic	ND	mg/L	6E-05						Run: SUB-C109913 10/27/08 12:28
Sample ID: LFB	Laboratory Fortified Blank								
Arsenic	0.0513	mg/L	0.0010	103	85	115			Run: SUB-C109913 10/27/08 12:33
Sample ID: C08100267-002BMS4	Post Digestion Spike								
Arsenic	0.0559	mg/L	0.0010	104	70	130			Run: SUB-C109913 10/27/08 17:57
Sample ID: C08100267-002BMSD4	Post Digestion Spike Duplicate								
Arsenic	0.0561	mg/L	0.0010	104	70	130	0.4	20	Run: SUB-C109913 10/27/08 18:02
Method: E200.8							Batch: C_R110071		
Sample ID: LRB	Method Blank								
Arsenic	ND	mg/L	6E-05						Run: SUB-C110071 10/29/08 18:03
Sample ID: LFB	Laboratory Fortified Blank								
Arsenic	0.0479	mg/L	0.0010	96	85	115			Run: SUB-C110071 10/29/08 18:09
Sample ID: C08100460-002BMS4	Post Digestion Spike								
Arsenic	0.0557	mg/L	0.0010	98	70	130			Run: SUB-C110071 10/29/08 22:55
Sample ID: C08100460-002BMSD4	Post Digestion Spike Duplicate								
Arsenic	0.0548	mg/L	0.0010	96	70	130	1.7	20	Run: SUB-C110071 10/29/08 23:01
Method: E245.1							Batch: B_35067		
Sample ID: MB-35067	Method Blank								
Mercury	ND	mg/L	5E-05						Run: SUB-B118690 10/06/08 12:51
Sample ID: LFB-35067	Laboratory Fortified Blank								
Mercury	0.0017	mg/L	0.0010	87	85	115			Run: SUB-B118690 10/06/08 12:54
Sample ID: B08100347-005CMS	Sample Matrix Spike								
Mercury	0.065	mg/L	0.0010		70	130			Run: SUB-B118690 10/06/08 15:25 A
Sample ID: B08100347-005CMSD	Sample Matrix Spike Duplicate								
Mercury	0.068	mg/L	0.0010		70	130	4.8	30	Run: SUB-B118690 10/06/08 15:28 A
Method: E245.1							Analytical Run: SUB-B118690		
Sample ID: QCS	Initial Calibration Verification Standard								
Mercury	0.0019	mg/L	0.0010	94	90	110			Run: SUB-B118690 10/06/08 12:44

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R37804		
Sample ID: LFB0810013653-3	Laboratory Fortified Blank			Run: DIONEX_081001A			10/01/08 18:53		
Chloride	4.95	mg/L	0.50	99	90	110			
Fluoride	2.08	mg/L	0.10	104	90	110			
Nitrogen, Nitrate as N	2.46	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N	2.54	mg/L	0.10	102	90	110			
Sulfate	14.7	mg/L	1.0	98	90	110			
Sample ID: LFB0810013653-4	Laboratory Fortified Blank			Run: DIONEX_081001A			10/01/08 19:09		
Chloride	5.03	mg/L	0.50	101	90	110			
Fluoride	2.12	mg/L	0.10	106	90	110			
Nitrogen, Nitrate as N	2.50	mg/L	0.10	100	90	110			
Nitrogen, Nitrite as N	2.58	mg/L	0.10	103	90	110			
Sulfate	14.9	mg/L	1.0	99	90	110			
Sample ID: R08100014-001AMS	Sample Matrix Spike			Run: DIONEX_081001A			10/02/08 05:49		
Chloride	263	mg/L	5.4	94	80	120			
Fluoride	107	mg/L	0.56	100	80	120			
Nitrogen, Nitrate as N	122	mg/L	1.3	98	80	120			
Nitrogen, Nitrite as N	128	mg/L	2.9	102	80	120			
Sulfate	1130	mg/L	3.4	94	80	120			
Sample ID: R08100014-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_081001A			10/02/08 06:06		
Chloride	258	mg/L	5.4	92	80	120	2.2	10	
Fluoride	104	mg/L	0.56	97	80	120	2.4	10	
Nitrogen, Nitrate as N	119	mg/L	1.3	95	80	120	2.6	10	
Nitrogen, Nitrite as N	124	mg/L	2.9	99	80	120	2.8	10	
Sulfate	1120	mg/L	3.4	92	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: 12/29/08
 Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0549		
Sample ID: MB-GrAB-0549	Method Blank								
Gross Alpha	-0.7	pCi/L							U
Gross Beta	-1	pCi/L							U
Sample ID: UNAT-GrAB-0549	Laboratory Control Sample								
Gross Alpha	130	pCi/L	96	70	130				11/05/08 01:00
Sample ID: C08100684-001AMS	Sample Matrix Spike								
Gross Alpha	130	pCi/L	94	70	130				11/05/08 01:00
Sample ID: C08100684-001AMSD	Sample Matrix Spike Duplicate								
Gross Alpha	140	pCi/L	100	70	130	6.1	18.3		11/05/08 01:00
Sample ID: C08100012-002DDUP	Sample Duplicate								
Gross Alpha	4.3	pCi/L					76	434.7	U
Gross Beta	-12	pCi/L					110	196.9	U
Sample ID: Cs137-GrAB-0549	Laboratory Control Sample								
Gross Beta	83	pCi/L	90	70	130				11/05/08 01:00
Sample ID: C08100684-001AMS	Sample Matrix Spike								
Gross Beta	96	pCi/L	98	70	130				11/05/08 01:00
Sample ID: C08100684-001AMSD	Sample Matrix Spike Duplicate								
Gross Beta	96	pCi/L	98	70	130	0.1	16.1		11/05/08 01:00
Method: E901.1							Batch: C_R109497		
Sample ID: MB-R109497	Method Blank								
Gross Gamma	ND	pCi/L							10/13/08 15:50
Sample ID: LCS-R109497	Laboratory Control Sample								
Cesium 137	46000	pCi/L	20	106	70	130			10/13/08 15:50
Cobalt 60	32000	pCi/L	20	102	70	130			
Sample ID: C08091068-007HDUP	Sample Duplicate								
Gross Gamma	960	pCi/L					0.2	30	10/13/08 15:50

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: 12/29/08
 Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-3138		
Sample ID: C08100062-002AMS Radium 226	Sample Matrix Spike 22	pCi/L		85	70	130			10/23/08 15:01
Sample ID: C08100062-002AMSD Radium 226	Sample Matrix Spike Duplicate 23	pCi/L		87	70	130	1.4	25.4	10/23/08 15:01
Sample ID: MB-RA226-3138 Radium 226	Method Blank -0.04	pCi/L							10/23/08 16:38 U
Sample ID: LCS-RA226-3138 Radium 226	Laboratory Control Sample 7.6	pCi/L		96	70	130			10/23/08 16:38
Method: E903.0							Batch: C_RA226-3146		
Sample ID: C08091138-001ADUP Radium 226	Sample Duplicate 15.2	pCi/Filter					12	46.7	10/19/08 17:13
Sample ID: C08100116-005AMS Radium 226	Sample Matrix Spike 144	pCi/Filter		93	70	130			10/20/08 11:18
Sample ID: LCS-20083 Radium 226	Laboratory Control Sample 16	pCi/L		100	70	130			10/20/08 14:18
Sample ID: MB-20083 Radium 226	Method Blank -0.2	pCi/L							10/20/08 15:49 U
Method: E907.0							Batch: C_R110598		
Sample ID: C08091179-002AMS Thorium 230	Sample Matrix Spike 127	pCi/Filter	0.20	74	70	130			10/15/08 16:00
Sample ID: C08091179-002AMSD Thorium 230	Sample Matrix Spike Duplicate 163	pCi/Filter	0.20	102	70	130	25	30	10/15/08 16:00
Sample ID: LCS-20083 Thorium 230	Laboratory Control Sample 43.3	pCi/Filter	0.20	93	70	130			10/15/08 16:00
Sample ID: MB-20083 Thorium 230	Method Blank 0.10	pCi/Filter							10/15/08 16:00 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: 12/29/08
 Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0661		
Sample ID: LCS-RA-TH-ISO-0661 Thorium 230	Laboratory Control Sample 11.5	pCi/L	0.20	102	70	130			10/23/08 16:11
Sample ID: R08100014-001H Thorium 230	Sample Matrix Spike 44.3	pCi/L	0.20	91	70	130			10/24/08 08:42
Sample ID: R08100014-001H Thorium 230	Sample Matrix Spike Duplicate 49.4	pCi/L	0.20	101	70	130	11	39.7	10/24/08 08:42
Sample ID: MB-RA-TH-ISO-0661 Thorium 230	Method Blank 0.2	pCi/L							10/24/08 08:42 U
Method: E909.0M							Batch: C_20083		
Sample ID: C08100116-002AMS Lead 210	Sample Matrix Spike 1150	pCi/Filter		97	70	130			10/16/08 10:00
Sample ID: C08100116-002AMSD Lead 210	Sample Matrix Spike Duplicate 1520	pCi/Filter		129	70	130	28	30	10/16/08 10:00
Sample ID: MB-R109829 Lead 210	Method Blank -0.3	pCi/L							10/16/08 10:00 U
Sample ID: LCS-R109829 Lead 210	Laboratory Control Sample 110	pCi/L		97	70	130			10/16/08 10:00
Method: E909.0M							Batch: C_R109942		
Sample ID: C08100106-005AMS Lead 210	Sample Matrix Spike 99	pCi/L		84	70	130			10/20/08 10:13
Sample ID: C08100301-006ADUP Lead 210	Sample Duplicate 1.8	pCi/L					5.4	30	10/20/08 10:13 U
Sample ID: MB-R109942 Lead 210	Method Blank ND	pCi/L							10/20/08 10:13 U
Sample ID: LCS-R109942 Lead 210	Laboratory Control Sample 52	pCi/L		90	70	130			10/20/08 10:13
Method: RMO-3008							Batch: C_20083		
Sample ID: LCS-20083 Polonium 210	Laboratory Control Sample 79	pCi/L	1.0	94	70	130			10/23/08 08:48
Sample ID: MB-20083 Polonium 210	Method Blank -0.5	pCi/L							10/23/08 11:46 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: 12/29/08
 Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_PO210-0152		
Sample ID: R08100014-001K Polonium 210	Sample Matrix Spike 82	pCi/L	1.0	94	70	130			10/09/08 09:08
Sample ID: R08100014-001K Polonium 210	Sample Matrix Spike Duplicate 79	pCi/L	1.0	92	70	130	3.3	51.1	10/09/08 09:08
Sample ID: C08090823-001FDUP Polonium 210	Sample Duplicate -0.039	pCi/L	1.0				0	742.4	10/09/08 09:08 U
Sample ID: LCS-PO210-0152 Polonium 210	Laboratory Control Sample 35	pCi/L	1.0	101	70	130			10/09/08 09:08
Sample ID: MB-PO210-0152 Polonium 210	Method Blank -0.07	pCi/L							10/09/08 09:08 U
Method: RMO-3008							Batch: C_R109765		
Sample ID: C08091163-008AMS Polonium 210	Sample Matrix Spike 0.00057	uCi/kg	6.3E-06	90	70	130			10/23/08 08:48
Sample ID: C08091163-008AMSD Polonium 210	Sample Matrix Spike Duplicate 0.00058	uCi/kg	6.3E-06	92	70	130	2	51.9	10/23/08 08:48
Sample ID: LCS-20052 Polonium 210	Laboratory Control Sample 7.6E-05	uCi/kg	1.0E-06	92	70	130			10/23/08 08:48
Sample ID: MB-20052 Polonium 210	Method Blank ND	uCi/kg	1E-06						10/23/08 08:48 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

PLEASE PRINT - Provide as much information as possible.

Company Name: <i>Scott Environmental</i>	Project Name, PWS, Permit, Etc. <i>Dewey/Burdock Powerbed</i>	Sample Origin State:	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: <i>RESD Ec</i>	Contact Name: <i>Allan Scott</i>	Phone/Fax: <i>(773) 400 9</i>	Sampler: (Please Print)
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/MWTP
- 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

Original Report

ANALYSIS REQUESTED

SEE ATTACHED
Normal Turnaround (TAT)

R U S H

Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page

Comments:

*sample sent 1/14
Burdock PWS Permit # 008100014-001*

LABORATORY USE ONLY

Shipped by:	Receipt Temp <i>3.2 °C</i>
Cooler (Dry):	On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Custody Seal Y N	Intact Y N
Signature Y N	Signature Y N

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Signature	Date/Time	Signature	Date/Time
<i>GW 6088</i>	<i>9-30-08</i>	<i>8:35</i>	<i>W</i>	<i>Allan Scott</i>	<i>10-1-08 9:39</i>	<i>Steve Fialand</i>	<i>10-1-08 9:46</i>

Requested by (print): <i>Allan Scott</i>	Date/Time: <i>10-1-08 9:39</i>	Signature: <i>Allan Scott</i>	Received by (print):	Date/Time:	Signature:	Date/Time:
Relinquished by (print):	Date/Time:	Signature:	Received by Laboratory:	Date/Time:	Signature:	Date/Time:

Custody Record MUST be Signed

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



ANALYTICAL SUMMARY REPORT

December 29, 2008

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

Workorder No.: R08100295 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 14 samples for RESPEC Inc on 10/22/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08100295-001	DewBurd BLK01	10/20/08 12:00	10/22/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

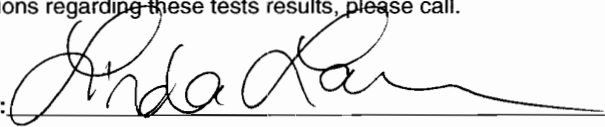


ANALYTICAL SUMMARY REPORT

R08100295-002 DewBurd GW680	10/20/08 12:10 10/22/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08100295-003 DewBurd GW680	10/20/08 12:10 10/22/08	Aqueous	Same As Above
R08100295-004 DewBurd GW698	10/20/08 13:52 10/22/08	Aqueous	Same As Above
R08100295-005 DewBurd GW688	10/20/08 12:15 10/22/08	Aqueous	Same As Above
R08100295-006 DewBurd GW622	10/20/08 15:42 10/22/08	Aqueous	Same As Above
R08100295-007 DewBurd GW3026	10/20/08 13:15 10/22/08	Aqueous	Same As Above
R08100295-008 DewBurd GW689	10/20/08 14:46 10/22/08	Aqueous	Same As Above
R08100295-009 DewBurd GW681	10/20/08 15:00 10/22/08	Aqueous	Same As Above
R08100295-010 DewBurd GW615	10/20/08 16:20 10/22/08	Aqueous	Same As Above
R08100295-011 DewBurd GW697	10/21/08 9:45 10/22/08	Aqueous	Same As Above
R08100295-012 DewBurd GW695	10/21/08 9:10 10/22/08	Aqueous	Same As Above
R08100295-013 DewBurd GW694	10/21/08 8:25 10/22/08	Aqueous	Same As Above
R08100295-014 DewBurd GW696	10/21/08 8:45 10/22/08	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



CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08100295

Date: 29-Dec-08

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: C08101052

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: C08101052



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-001
 Client Sample ID: DewBurd BLK01

Report Date: 12/29/08
 Collection Date: 10/20/08 12:00
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	10/27/08 15:41/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/27/08 15:41/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	10/27/08 15:41/mb
Calcium	ND	mg/L		0.5		2	E200.7	11/05/08 17:04/eli-c
Chloride	ND	mg/L		1		1	E300.0	10/22/08 20:47/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	10/22/08 20:47/jmh
Magnesium	ND	mg/L		0.5		2	E200.7	11/05/08 17:04/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/23/08 17:51/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/22/08 20:47/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/22/08 20:47/jmh
Potassium	ND	mg/L		0.5		2	E200.7	11/05/08 17:04/eli-c
Sodium	ND	mg/L	D	2		2	E200.7	11/05/08 17:04/eli-c
Sulfate	ND	mg/L		1		1	E300.0	10/22/08 20:47/jmh
Silica	0.5	mg/L		0.2		2	E200.7	11/05/08 17:04/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	ND	umhos/cm		5.0		1	A2510 B	10/28/08 17:04/tb
Oxidation-Reduction Potential	400	mV				1	A2580 B	10/27/08 19:00/jmh
pH	5.63	s.u.		0.01		1	A4500-H B	10/28/08 13:28/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	24	mg/L		5		1	A2540 C	10/24/08 15:44/mb
- SAR calculations may not be appropriate for near blank results.								
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/05/08 05:25/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/05/08 05:25/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/05/08 05:25/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 17:04/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 05:25/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/05/08 05:25/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 05:25/eli-c
Iron	ND	mg/L		0.03		2	E200.7	11/05/08 17:04/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 05:25/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	11/05/08 05:25/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 05:25/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/05/08 05:25/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/05/08 05:25/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 09:34/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 13:29/eli-c

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 1 of 42
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-001
Client Sample ID: DewBurd BLK01

Report Date: 12/29/08
Collection Date: 10/20/08 12:00
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 05:25/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	11/05/08 05:25/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/05/08 05:25/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/05/08 05:25/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/06/08 15:24/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 14:31/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	-0.05	pCi/L	U			1	E900.0	11/22/08 01:24/eli-c
Gross Alpha precision (±)	0.4	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Alpha MDC	0.7	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta	-2	pCi/L	U			1	E900.0	11/22/08 01:24/eli-c
Gross Beta precision (±)	1.5	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta MDC	2.6	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Lead 210	4.7	pCi/L	U			1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.7	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.18	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	11/11/08 00:38/eli-c
Radium 226 precision (±)	0.08	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	11/20/08 08:50/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	11/20/08 08:50/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.7	pCi/L	U			1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.1	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.39	pCi/L				1	RMO-3008	11/13/08 12:40/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	11/11/08 11:22/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	11/11/08 11:22/eli-c

Report RL - Analyte reporting limit.
Definitions: 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: R08100295-001
 Client Sample ID: DewBurd BLK01

Report Date: 12/29/08
 Collection Date: 10/20/08 12:00
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.5	pCi/L				1	E903.0	11/11/08 11:22/eli-c
Thorium 230	-0.2	pCi/L	U	0.2		1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	184	pCi/L		100		1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	69.2	pCi/L				1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	10/30/08 02:41/eli-c
Arsenic	0.003	mg/L	L	0.002		1	E200.8	10/30/08 02:41/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/30/08 02:41/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	10/30/08 02:41/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 20:25/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/30/08 02:41/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/30/08 02:41/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/30/08 02:41/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	11/05/08 20:25/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/30/08 02:41/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	11/05/08 20:25/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/27/08 09:30/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	10/30/08 02:41/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/30/08 02:41/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/30/08 02:41/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/30/08 02:41/eli-c
Strontium	ND	mg/L		0.1		2	E200.7	11/05/08 20:25/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	10/30/08 02:41/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	10/30/08 02:41/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/30/08 02:41/eli-c

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 3 of 42
Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration L - Lowest available reporting limit for the analytical method used.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-002
Client Sample ID: DewBurd GW680

Report Date: 12/29/08
Collection Date: 10/20/08 12:10
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	252	mg/L		5		1	A2320 B	10/27/08 15:48/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/27/08 15:48/mb
Bicarbonate as HCO3	307	mg/L		5		1	A2320 B	10/27/08 15:48/mb
Calcium	384	mg/L		0.5		2	E200.7	11/05/08 17:28/eli-c
Chloride	14	mg/L		1		1	E300.0	10/22/08 21:20/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	10/22/08 21:20/jmh
Magnesium	122	mg/L		0.5		2	E200.7	11/05/08 17:28/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/23/08 17:52/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/22/08 21:20/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/22/08 21:20/jmh
Potassium	18.7	mg/L		0.5		2	E200.7	11/05/08 17:28/eli-c
Sodium	143	mg/L	D	2		2	E200.7	11/05/08 17:28/eli-c
Sulfate	1350	mg/L	D	3		50	E300.0	10/22/08 21:03/jmh
Silica	8.5	mg/L		0.2		2	E200.7	11/05/08 17:28/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2670	umhos/cm		5.0		1	A2510 B	10/28/08 17:05/tb
Oxidation-Reduction Potential	110	mV				1	A2580 B	10/27/08 19:00/jmh
pH	7.69	s.u.		0.01		1	A4500-H B	10/29/08 00:00/tb
Sodium Adsorption Ratio (SAR)	1.6	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	2400	mg/L		5		1	A2540 C	10/24/08 15:44/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/05/08 05:32/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	11/05/08 05:32/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/05/08 05:32/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	11/05/08 17:28/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 05:32/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/05/08 05:32/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 05:32/eli-c
Iron	0.06	mg/L		0.03		2	E200.7	11/05/08 17:28/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 05:32/eli-c
Manganese	0.41	mg/L		0.01		1	E200.8	11/05/08 05:32/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 05:32/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/05/08 05:32/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/05/08 05:32/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 09:40/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 13:36/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 05:32/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-002
Client Sample ID: DewBurd GW680

Report Date: 12/29/08
Collection Date: 10/20/08 12:10
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0179	mg/L		0.0003		1	E200.8	11/05/08 05:32/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/05/08 05:32/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/05/08 05:32/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/06/08 15:28/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 14:38/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	3700	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Alpha precision (±)	58.4	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Alpha MDC	6.8	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta	1170	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta precision (±)	16.7	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta MDC	9.5	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Lead 210	7.9	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.8	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.9	pCi/L	U	1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.69	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	1230	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Radium 226 precision (±)	6.8	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	11/20/08 08:50/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	11/20/08 08:50/eli-c
Gross Gamma	4400	pCi/L				1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	150	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	6.6	pCi/L	U			1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.2	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	1.0	pCi/L	U	1.0		1	RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.68	pCi/L				1	RMO-3008	11/13/08 12:40/eli-c
Radium 226	9.0	pCi/L				1	E903.0	11/11/08 11:22/eli-c
Radium 226 precision (±)	1	pCi/L				1	E903.0	11/11/08 11:22/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	11/11/08 11:22/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.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-002
Client Sample ID: DewBurd GW680

Report Date: 12/29/08
Collection Date: 10/20/08 12:10
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	-0.2	pCi/L	U	0.2		1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	66700	pCi/L		100		1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	365	pCi/L				1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	10/30/08 02:48/eli-c
Arsenic	0.008	mg/L	L	0.002		1	E200.8	10/30/08 02:48/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/30/08 02:48/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	10/30/08 02:48/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	11/05/08 20:33/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/30/08 02:48/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/30/08 02:48/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/30/08 02:48/eli-c
Iron	0.29	mg/L		0.03		2	E200.7	11/05/08 20:33/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/30/08 02:48/eli-c
Manganese	0.46	mg/L		0.01		2	E200.7	11/05/08 20:33/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/27/08 09:32/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	10/30/08 02:48/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/30/08 02:48/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/30/08 02:48/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/30/08 02:48/eli-c
Strontium	7.4	mg/L		0.1		2	E200.7	11/05/08 20:33/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	10/30/08 02:48/eli-c
Uranium	0.0209	mg/L		0.0003		1	E200.8	10/30/08 02:48/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/30/08 02:48/eli-c
DATA QUALITY								
A/C Balance (± 5)	3.49	%				1	A1030 E	12/10/08 00:00/jmh
Anions	33.5	meq/L				1	A1030 E	12/10/08 00:00/jmh
Cations	35.9	meq/L				1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	2200	mg/L				1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.08					1	A1030 E	12/10/08 00:00/jmh

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 6 of 42
Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration L - Lowest available reporting limit for the analytical method used.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-003
Client Sample ID: DewBurd GW680

Report Date: 12/29/08
Collection Date: 10/20/08 12:10
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	338	mg/L		5		1	A2320 B	10/27/08 15:50/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/27/08 15:50/mb
Bicarbonate as HCO3	412	mg/L		5		1	A2320 B	10/27/08 15:50/mb
Calcium	382	mg/L		0.5		2	E200.7	11/05/08 17:36/eli-c
Chloride	14	mg/L		1		1	E300.0	10/22/08 21:53/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	10/22/08 21:53/jmh
Magnesium	123	mg/L		0.5		2	E200.7	11/05/08 17:36/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/23/08 17:53/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/22/08 21:53/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/22/08 21:53/jmh
Potassium	18.8	mg/L		0.5		2	E200.7	11/05/08 17:36/eli-c
Sodium	141	mg/L	D	2		2	E200.7	11/05/08 17:36/eli-c
Sulfate	1380	mg/L	D	3		50	E300.0	10/22/08 21:36/jmh
Silica	8.4	mg/L		0.2		2	E200.7	11/05/08 17:36/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2660	umhos/cm		5.0		1	A2510 B	10/28/08 17:17/tb
Oxidation-Reduction Potential	210	mV				1	A2580 B	10/27/08 19:00/jmh
pH	7.60	s.u.		0.01		1	A4500-H B	10/28/08 13:35/tb
Sodium Adsorption Ratio (SAR)	1.6	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	2100	mg/L		5		1	A2540 C	10/24/08 15:45/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/05/08 05:38/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	11/05/08 05:38/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/05/08 05:38/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	11/05/08 17:36/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 05:38/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/05/08 05:38/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 05:38/eli-c
Iron	0.07	mg/L		0.03		2	E200.7	11/05/08 17:36/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 05:38/eli-c
Manganese	0.41	mg/L		0.01		1	E200.8	11/05/08 05:38/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 05:38/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/05/08 05:38/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/05/08 05:38/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 09:43/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 13:43/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 05:38/eli-c

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 7 of 42
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-003
 Client Sample ID: DewBurd GW680

Report Date: 12/29/08
 Collection Date: 10/20/08 12:10
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0176	mg/L		0.0003		1	E200.8	11/05/08 05:38/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/05/08 05:38/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/05/08 05:38/eli-c
METALS - SUSPENDED								
Uranium	0.0003	mg/L		0.0003		1	E200.8	11/06/08 15:32/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 14:41/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	4200	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Alpha precision (±)	63.0	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Alpha MDC	7.0	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta	1190	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta precision (±)	16.8	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta MDC	9.5	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Lead 210	18.2	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.9	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	1190	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Radium 226 precision (±)	6.2	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	11/20/08 08:50/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	11/20/08 08:50/eli-c
Gross Gamma	4400	pCi/L				1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	150	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	4.1	pCi/L	U			1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.1	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	1.4	pCi/L		1.0		1	RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1	RMO-3008	11/13/08 12:40/eli-c
Radium 226	6.9	pCi/L				1	E903.0	11/11/08 11:22/eli-c
Radium 226 precision (±)	0.9	pCi/L				1	E903.0	11/11/08 11:22/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	11/11/08 11:22/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08100295-003
Client Sample ID: DewBurd GW680

Report Date: 12/29/08
Collection Date: 10/20/08 12:10
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	74300	pCi/L		100		1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	385	pCi/L				1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	10/30/08 02:55/eli-c
Arsenic	0.007	mg/L	L	0.002		1	E200.8	10/30/08 02:55/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/30/08 02:55/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	10/30/08 02:55/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	11/05/08 20:37/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/30/08 02:55/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/30/08 02:55/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/30/08 02:55/eli-c
Iron	0.29	mg/L		0.03		2	E200.7	11/05/08 20:37/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/30/08 02:55/eli-c
Manganese	0.44	mg/L		0.01		2	E200.7	11/05/08 20:37/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/27/08 09:34/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	10/30/08 02:55/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/30/08 02:55/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/30/08 02:55/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/30/08 02:55/eli-c
Strontium	7.2	mg/L		0.1		2	E200.7	11/05/08 20:37/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	10/30/08 02:55/eli-c
Uranium	0.0210	mg/L		0.0003		1	E200.8	10/30/08 02:55/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/30/08 02:55/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.230	%				1	A1030 E	12/10/08 00:00/jmh
Anions	36.0	meq/L				1	A1030 E	12/10/08 00:00/jmh
Cations	35.8	meq/L				1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	2290	mg/L				1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.910					1	A1030 E	12/10/08 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: 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.
 L - Lowest available reporting limit for the analytical method used.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-004
Client Sample ID: DewBurd GW698

Report Date: 12/29/08
Collection Date: 10/20/08 13:52
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	114	mg/L		5		1	A2320 B	10/27/08 15:52/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/27/08 15:52/mb
Bicarbonate as HCO3	139	mg/L		5		1	A2320 B	10/27/08 15:52/mb
Calcium	366	mg/L		0.5		2	E200.7	11/05/08 17:40/eli-c
Chloride	10	mg/L		1		1	E300.0	10/22/08 23:31/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	10/22/08 23:31/jmh
Magnesium	128	mg/L		0.5		2	E200.7	11/05/08 17:40/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	10/23/08 17:55/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/22/08 23:31/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/22/08 23:31/jmh
Potassium	15.1	mg/L		0.5		2	E200.7	11/05/08 17:40/eli-c
Sodium	84	mg/L	D	2		2	E200.7	11/05/08 17:40/eli-c
Sulfate	1380	mg/L	D	3		50	E300.0	10/22/08 22:42/jmh
Silica	10.5	mg/L		0.2		2	E200.7	11/05/08 17:40/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2480	umhos/cm		5.0		1	A2510 B	10/28/08 17:18/tb
Oxidation-Reduction Potential	64	mV				1	A2580 B	10/27/08 19:00/jmh
pH	7.34	s.u.		0.01		1	A4500-H B	10/28/08 13:38/tb
Sodium Adsorption Ratio (SAR)	0.96	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	10/27/08 10:44/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/05/08 05:45/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/05/08 05:45/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/05/08 05:45/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 17:40/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 05:45/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/05/08 05:45/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 05:45/eli-c
Iron	2.67	mg/L		0.03		2	E200.7	11/05/08 17:40/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 05:45/eli-c
Manganese	2.37	mg/L		0.01		1	E200.8	11/05/08 05:45/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 05:45/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/05/08 05:45/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/05/08 05:45/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 09:45/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 13:49/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 05:45/eli-c

Report RL - Analyte reporting limit.
Definitions: 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: R08100295-004
Client Sample ID: DewBurd GW698

Report Date: 12/29/08
Collection Date: 10/20/08 13:52
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.103	mg/L		0.0003		1	E200.8	11/05/08 05:45/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/05/08 05:45/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/05/08 05:45/eli-c
METALS - SUSPENDED								
Uranium	0.0036	mg/L		0.0003		1	E200.8	11/06/08 15:37/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 14:43/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1330	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Alpha precision (±)	34.2	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Alpha MDC	6.5	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta	399	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta precision (±)	10.7	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta MDC	9.4	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Lead 210	6.8	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.8	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.42	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	347	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Radium 226 precision (±)	3.5	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	11/20/08 08:50/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	11/20/08 08:50/eli-c
Gross Gamma	1700	pCi/L				1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	100	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	4.7	pCi/L	U			1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.1	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	1.0	pCi/L		1.0		1	RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.68	pCi/L				1	RMO-3008	11/13/08 12:40/eli-c
Radium 226	7.4	pCi/L				1	E903.0	11/11/08 11:22/eli-c
Radium 226 precision (±)	0.9	pCi/L				1	E903.0	11/11/08 11:22/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	11/11/08 11:22/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-004
 Client Sample ID: DewBurd GW698

Report Date: 12/29/08
 Collection Date: 10/20/08 13:52
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	38200	pCi/L		100		1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	278	pCi/L				1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	10/30/08 03:02/eli-c
Arsenic	0.006	mg/L	L	0.002		1	E200.8	10/30/08 03:02/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/30/08 03:02/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	10/30/08 03:02/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 20:41/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/30/08 03:02/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/30/08 03:02/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/30/08 03:02/eli-c
Iron	4.86	mg/L		0.03		2	E200.7	11/05/08 20:41/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/30/08 03:02/eli-c
Manganese	2.47	mg/L		0.01		2	E200.7	11/05/08 20:41/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/27/08 09:37/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	10/30/08 03:02/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/30/08 03:02/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/30/08 03:02/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/30/08 03:02/eli-c
Strontium	4.9	mg/L		0.1		2	E200.7	11/05/08 20:41/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	10/30/08 03:02/eli-c
Uranium	0.132	mg/L		0.0003		1	E200.8	10/30/08 03:02/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/30/08 03:02/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.91	%				1	A1030 E	12/10/08 00:00/jmh
Anions	31.2	meq/L				1	A1030 E	12/10/08 00:00/jmh
Cations	33.1	meq/L				1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	2080	mg/L				1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.10					1	A1030 E	12/10/08 00:00/jmh

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.
 L - Lowest available reporting limit for the analytical method used.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-005
Client Sample ID: DewBurd GW688

Report Date: 12/29/08
Collection Date: 10/20/08 12:15
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	162	mg/L		5		1	A2320 B	10/27/08 15:54/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/27/08 15:54/mb
Bicarbonate as HCO3	197	mg/L		5		1	A2320 B	10/27/08 15:54/mb
Calcium	49.0	mg/L		0.5		2	E200.7	11/05/08 17:44/eli-c
Chloride	12	mg/L		1		1	E300.0	10/23/08 00:04/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	10/23/08 00:04/jmh
Magnesium	20.1	mg/L		0.5		2	E200.7	11/05/08 17:44/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	10/23/08 17:56/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/23/08 00:04/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/23/08 00:04/jmh
Potassium	12.0	mg/L		0.5		2	E200.7	11/05/08 17:44/eli-c
Sodium	193	mg/L	D	2		2	E200.7	11/05/08 17:44/eli-c
Sulfate	450	mg/L	D	3		50	E300.0	10/22/08 23:48/jmh
Silica	8.4	mg/L		0.2		2	E200.7	11/05/08 17:44/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1260	umhos/cm		5.0		1	A2510 B	10/28/08 17:19/tb
Oxidation-Reduction Potential	170	mV				1	A2580 B	10/27/08 19:00/jmh
pH	8.15	s.u.		0.01		1	A4500-H B	10/28/08 13:40/tb
Sodium Adsorption Ratio (SAR)	5.9	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	810	mg/L		5		1	A2540 C	10/24/08 15:46/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/05/08 05:52/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	11/05/08 05:52/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/05/08 05:52/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 17:44/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 05:52/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/05/08 05:52/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 05:52/eli-c
Iron	0.05	mg/L		0.03		2	E200.7	11/05/08 17:44/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 05:52/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	11/05/08 05:52/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 05:52/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/05/08 05:52/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/05/08 05:52/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 09:47/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 13:56/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 05:52/eli-c

Report RL - Analyte reporting limit.
Definitions: 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: R08100295-005
Client Sample ID: DewBurd GW688

Report Date: 12/29/08
Collection Date: 10/20/08 12:15
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/05/08 05:52/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/05/08 05:52/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/05/08 05:52/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/06/08 15:41/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 14:45/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	10.2	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Alpha precision (±)	2.5	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Alpha MDC	2.8	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta	14.9	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta precision (±)	2.4	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta MDC	3.6	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Lead 210	1.1	pCi/L	U			1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.7	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	1.6	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	11/20/08 08:50/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	11/20/08 08:50/eli-c
Gross Gamma	310	pCi/L				1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	53	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-3	pCi/L	U			1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.0	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.14	pCi/L				1	RMO-3008	11/13/08 12:40/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	11/11/08 13:02/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	11/11/08 13:02/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	11/11/08 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.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-005
Client Sample ID: DewBurd GW688

Report Date: 12/29/08
Collection Date: 10/20/08 12:15
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.0	pCi/L	U	0.2		E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L				E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	184	pCi/L		100		D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	69.2	pCi/L				D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		E200.8	10/30/08 03:09/eli-c
Arsenic	0.004	mg/L	L	0.002		E200.8	10/30/08 03:09/eli-c
Barium	ND	mg/L		0.1		E200.8	10/30/08 03:09/eli-c
Beryllium	ND	mg/L		0.001		E200.8	10/30/08 03:09/eli-c
Boron	ND	mg/L		0.1	2	E200.7	11/05/08 20:45/eli-c
Cadmium	ND	mg/L		0.005	1	E200.8	10/30/08 03:09/eli-c
Chromium	ND	mg/L		0.05	1	E200.8	10/30/08 03:09/eli-c
Copper	ND	mg/L		0.01	1	E200.8	10/30/08 03:09/eli-c
Iron	0.16	mg/L		0.03	2	E200.7	11/05/08 20:45/eli-c
Lead	ND	mg/L		0.001	1	E200.8	10/30/08 03:09/eli-c
Manganese	0.06	mg/L		0.01	2	E200.7	11/05/08 20:45/eli-c
Mercury	ND	mg/L		0.001	1	E245.1	10/27/08 09:44/eli-b
Molybdenum	ND	mg/L		0.1	1	E200.8	10/30/08 03:09/eli-c
Nickel	ND	mg/L		0.05	1	E200.8	10/30/08 03:09/eli-c
Selenium	ND	mg/L		0.001	1	E200.8	10/30/08 03:09/eli-c
Silver	ND	mg/L		0.005	1	E200.8	10/30/08 03:09/eli-c
Strontium	1.3	mg/L		0.1	2	E200.7	11/05/08 20:45/eli-c
Thallium	ND	mg/L		0.001	1	E200.8	10/30/08 03:09/eli-c
Uranium	ND	mg/L		0.0003	1	E200.8	10/30/08 03:09/eli-c
Zinc	ND	mg/L		0.01	1	E200.8	10/30/08 03:09/eli-c
DATA QUALITY							
A/C Balance (± 5)	-0.510	%				A1030 E	12/10/08 00:00/jmh
Anions	13.0	meq/L				A1030 E	12/10/08 00:00/jmh
Cations	12.8	meq/L				A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	857	mg/L				A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950					A1030 E	12/10/08 00:00/jmh

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

L - Lowest available reporting limit for the analytical method used.

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-006
Client Sample ID: DewBurd GW622

Report Date: 12/29/08
Collection Date: 10/20/08 15:42
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	178	mg/L		5		1	A2320 B	10/27/08 15:55/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/27/08 15:55/mb
Bicarbonate as HCO3	217	mg/L		5		1	A2320 B	10/27/08 15:55/mb
Calcium	87.9	mg/L		0.5		2	E200.7	11/05/08 17:49/eli-c
Chloride	10	mg/L		1		1	E300.0	10/23/08 00:37/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	10/23/08 00:37/jmh
Magnesium	29.9	mg/L		0.5		2	E200.7	11/05/08 17:49/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/23/08 17:57/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/23/08 00:37/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/23/08 00:37/jmh
Potassium	10.2	mg/L		0.5		2	E200.7	11/05/08 17:49/eli-c
Sodium	179	mg/L	D	2		2	E200.7	11/05/08 17:49/eli-c
Sulfate	510	mg/L	D	3		50	E300.0	10/23/08 00:20/jmh
Silica	8.4	mg/L		0.2		2	E200.7	11/05/08 17:49/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1390	umhos/cm		5.0		1	A2510 B	10/28/08 17:20/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	10/27/08 19:00/jmh
pH	7.95	s.u.		0.01		1	A4500-H B	10/28/08 13:42/tb
Sodium Adsorption Ratio (SAR)	4.2	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5		1	A2540 C	10/24/08 15:46/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	11/05/08 17:49/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/05/08 06:39/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/05/08 06:39/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 17:49/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 06:39/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/05/08 06:39/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 06:39/eli-c
Iron	ND	mg/L		0.03		2	E200.7	11/05/08 17:49/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 06:39/eli-c
Manganese	0.18	mg/L		0.01		1	E200.8	11/05/08 06:39/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 06:39/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/05/08 06:39/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/05/08 06:39/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 09:50/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 14:03/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 06:39/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: R08100295-006
 Client Sample ID: DewBurd GW622

Report Date: 12/29/08
 Collection Date: 10/20/08 15:42
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0052	mg/L		0.0003		1	E200.8	11/05/08 06:39/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/05/08 06:39/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/05/08 06:39/eli-c
METALS - SUSPENDED								
Uranium	0.0004	mg/L		0.0003		1	E200.8	11/06/08 15:45/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 14:47/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	29.3	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Alpha precision (±)	3.9	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Alpha MDC	3.1	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta	20.0	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta precision (±)	2.8	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta MDC	4.1	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Lead 210	3.2	pCi/L	U			1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	7.4	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	12.3	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.22	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	2.7	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	11/20/08 08:50/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	11/20/08 08:50/eli-c
Gross Gamma	130	pCi/L				1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	40	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-1	pCi/L	U			1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.0	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.41	pCi/L				1	RMO-3008	11/13/08 12:40/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	11/11/08 13:02/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	11/11/08 13:02/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	11/11/08 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.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-006
 Client Sample ID: DewBurd GW622

Report Date: 12/29/08
 Collection Date: 10/20/08 15:42
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.0	pCi/L	U	0.2			E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L					E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	1360	pCi/L		100			D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	82.1	pCi/L					D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003			E200.8	10/30/08 03:15/eli-c
Arsenic	0.006	mg/L	L	0.002			E200.8	10/30/08 03:15/eli-c
Barium	ND	mg/L		0.1			E200.8	10/30/08 03:15/eli-c
Beryllium	ND	mg/L		0.001			E200.8	10/30/08 03:15/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 20:50/eli-c
Cadmium	ND	mg/L		0.005			E200.8	10/30/08 03:15/eli-c
Chromium	ND	mg/L		0.05			E200.8	10/30/08 03:15/eli-c
Copper	ND	mg/L		0.01			E200.8	10/30/08 03:15/eli-c
Iron	1.21	mg/L		0.03		2	E200.7	11/05/08 20:50/eli-c
Lead	ND	mg/L		0.001			E200.8	10/30/08 03:15/eli-c
Manganese	0.18	mg/L		0.01		2	E200.7	11/05/08 20:50/eli-c
Mercury	ND	mg/L		0.001			E245.1	10/27/08 09:46/eli-b
Molybdenum	ND	mg/L		0.1			E200.8	10/30/08 03:15/eli-c
Nickel	ND	mg/L		0.05			E200.8	10/30/08 03:15/eli-c
Selenium	ND	mg/L		0.001			E200.8	10/30/08 03:15/eli-c
Silver	ND	mg/L		0.005			E200.8	10/30/08 03:15/eli-c
Strontium	1.6	mg/L		0.1		2	E200.7	11/05/08 20:50/eli-c
Thallium	ND	mg/L		0.001			E200.8	10/30/08 03:15/eli-c
Uranium	0.0059	mg/L		0.0003			E200.8	10/30/08 03:15/eli-c
Zinc	ND	mg/L		0.01			E200.8	10/30/08 03:15/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.37	%					A1030 E	12/10/08 00:00/jmh
Anions	14.5	meq/L					A1030 E	12/10/08 00:00/jmh
Cations	14.9	meq/L					A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	957	mg/L					A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960						A1030 E	12/10/08 00:00/jmh

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.
 L - Lowest available reporting limit for the analytical method used.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-007
Client Sample ID: DewBurd GW3026

Report Date: 12/29/08
Collection Date: 10/20/08 13:15
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	194	mg/L		5		1	A2320 B	10/27/08 15:58/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/27/08 15:58/mb
Bicarbonate as HCO3	236	mg/L		5		1	A2320 B	10/27/08 15:58/mb
Calcium	331	mg/L		0.5		2	E200.7	11/05/08 17:53/eli-c
Chloride	17	mg/L		1		1	E300.0	10/23/08 01:10/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	10/23/08 01:10/jmh
Magnesium	104	mg/L		0.5		2	E200.7	11/05/08 17:53/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	10/23/08 18:00/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/23/08 01:10/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/23/08 01:10/jmh
Potassium	19.0	mg/L		0.5		2	E200.7	11/05/08 17:53/eli-c
Sodium	168	mg/L	D	2		2	E200.7	11/05/08 17:53/eli-c
Sulfate	1360	mg/L	D	3		50	E300.0	10/23/08 00:53/jmh
Silica	9.9	mg/L		0.2		2	E200.7	11/05/08 17:53/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2660	umhos/cm		5.0		1	A2510 B	10/28/08 17:22/tb
Oxidation-Reduction Potential	210	mV				1	A2580 B	10/27/08 19:00/jmh
pH	7.12	s.u.		0.01		1	A4500-H B	10/28/08 13:44/tb
Sodium Adsorption Ratio (SAR)	2.1	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	1700	mg/L		5		1	A2540 C	10/24/08 15:47/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	11/05/08 17:53/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	11/05/08 06:46/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/05/08 06:46/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	11/05/08 17:53/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 06:46/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/05/08 06:46/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 06:46/eli-c
Iron	3.36	mg/L		0.03		2	E200.7	11/05/08 17:53/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 06:46/eli-c
Manganese	0.92	mg/L		0.01		1	E200.8	11/05/08 06:46/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 06:46/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/05/08 06:46/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/05/08 06:46/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 09:56/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 14:36/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 06:46/eli-c

Report RL - Analyte reporting limit.

Definitions: 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: R08100295-007
 Client Sample ID: DewBurd GW3026

Report Date: 12/29/08
 Collection Date: 10/20/08 13:15
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0045	mg/L		0.0003		1	E200.8	11/05/08 06:46/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/05/08 06:46/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/05/08 06:46/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/06/08 15:49/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 14:55/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	36.0	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Alpha precision (±)	6.8	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Alpha MDC	6.6	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta	20.2	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta precision (±)	6.0	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta MDC	9.4	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Lead 210	-1	pCi/L	U			1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.6	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.20	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	3.5	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	11/20/08 08:50/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	11/20/08 08:50/eli-c
Gross Gamma	840	pCi/L				1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	190	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-3	pCi/L	U			1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.0	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.33	pCi/L				1	RMO-3008	11/13/08 12:40/eli-c
Radium 226	-0.8	pCi/L	U			1	E903.0	11/11/08 13:02/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	11/11/08 13:02/eli-c
Radium 226 MDC	1	pCi/L				1	E903.0	11/11/08 13:02/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-007
Client Sample ID: DewBurd GW3026

Report Date: 12/29/08
Collection Date: 10/20/08 13:15
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	-0.1	pCi/L	U	0.2			1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	254	pCi/L		100			1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	69.7	pCi/L					1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	10/30/08 03:22/eli-c
Arsenic	0.010	mg/L	L	0.002			1	E200.8	10/30/08 03:22/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/30/08 03:22/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	10/30/08 03:22/eli-c
Boron	0.2	mg/L		0.1			2	E200.7	11/05/08 20:54/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/30/08 03:22/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	10/30/08 03:22/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/30/08 03:22/eli-c
Iron	14.3	mg/L		0.03			2	E200.7	11/05/08 20:54/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/30/08 03:22/eli-c
Manganese	1.01	mg/L		0.01			2	E200.7	11/05/08 20:54/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	10/27/08 09:48/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	10/30/08 03:22/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/30/08 03:22/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	10/30/08 03:22/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/30/08 03:22/eli-c
Strontium	5.9	mg/L		0.1			2	E200.7	11/05/08 20:54/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	10/30/08 03:22/eli-c
Uranium	0.0055	mg/L		0.0003			1	E200.8	10/30/08 03:22/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	10/30/08 03:22/eli-c
DATA QUALITY									
A/C Balance (± 5)	0.620	%					1	A1030 E	12/10/08 00:00/jmh
Anions	32.7	meq/L					1	A1030 E	12/10/08 00:00/jmh
Cations	33.1	meq/L					1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	2140	mg/L					1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.780						1	A1030 E	12/10/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 21 of 42
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration L - Lowest available reporting limit for the analytical method used.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-008
Client Sample ID: DewBurd GW689

Report Date: 12/29/08
Collection Date: 10/20/08 14:46
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	152	mg/L		5		1	A2320 B	10/27/08 16:01/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/27/08 16:01/mb
Bicarbonate as HCO3	185	mg/L		5		1	A2320 B	10/27/08 16:01/mb
Calcium	44.4	mg/L		0.5		2	E200.7	11/05/08 17:57/eli-c
Chloride	5	mg/L		1		1	E300.0	10/23/08 02:48/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	10/23/08 02:48/jmh
Magnesium	14.9	mg/L		0.5		2	E200.7	11/05/08 17:57/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/23/08 18:04/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/23/08 02:48/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/23/08 02:48/jmh
Potassium	7.5	mg/L		0.5		2	E200.7	11/05/08 17:57/eli-c
Sodium	174	mg/L	D	2		2	E200.7	11/05/08 17:57/eli-c
Sulfate	392	mg/L	D	3		50	E300.0	10/23/08 01:59/jmh
Silica	9.3	mg/L		0.2		2	E200.7	11/05/08 17:57/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1110	umhos/cm		5.0		1	A2510 B	10/28/08 17:23/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	10/27/08 19:00/jmh
pH	8.11	s.u.		0.01		1	A4500-H B	10/28/08 13:46/tb
Sodium Adsorption Ratio (SAR)	5.8	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	730	mg/L		5		1	A2540 C	10/24/08 15:47/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	11/05/08 17:57/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	11/05/08 06:53/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/05/08 06:53/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 17:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 06:53/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/05/08 06:53/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 06:53/eli-c
Iron	ND	mg/L		0.03		2	E200.7	11/05/08 17:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 06:53/eli-c
Manganese	0.04	mg/L		0.01		1	E200.8	11/05/08 06:53/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 06:53/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/05/08 06:53/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/05/08 06:53/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 09:59/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 15:10/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 06:53/eli-c

Report RL - Analyte reporting limit.

Definitions: 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: R08100295-008
Client Sample ID: DewBurd GW689

Report Date: 12/29/08
Collection Date: 10/20/08 14:46
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0031	mg/L		0.0003		1	E200.8	11/05/08 06:53/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/05/08 06:53/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/05/08 06:53/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/06/08 15:53/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 14:57/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	40.0	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Alpha precision (±)	3.9	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Alpha MDC	2.5	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta	12.9	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta precision (±)	1.9	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta MDC	2.9	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Lead 210	-0.3	pCi/L	U			1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.7	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.26	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	6.4	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	11/20/08 08:50/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	11/20/08 08:50/eli-c
Gross Gamma	960	pCi/L				1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	190	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.2	pCi/L	U			1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.1	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	11/13/08 12:40/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	11/11/08 13:02/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	11/11/08 13:02/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	11/11/08 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.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-008
 Client Sample ID: DewBurd GW689

Report Date: 12/29/08
 Collection Date: 10/20/08 14:46
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	-0.2	pCi/L	U	0.2			1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.02	pCi/L					1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	2410	pCi/L		100			1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	94.0	pCi/L					1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	10/30/08 00:18/eli-c
Arsenic	0.004	mg/L	L	0.003			1	E200.8	10/30/08 00:18/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/30/08 00:18/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	10/30/08 00:18/eli-c
Boron	ND	mg/L		0.1			2	E200.7	11/05/08 21:10/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/30/08 00:18/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	10/30/08 00:18/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/30/08 00:18/eli-c
Iron	0.61	mg/L		0.03			2	E200.7	11/05/08 21:10/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/30/08 00:18/eli-c
Manganese	0.05	mg/L		0.01			1	E200.8	10/30/08 00:18/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	10/27/08 09:51/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	10/30/08 00:18/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/30/08 00:18/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	10/30/08 00:18/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/30/08 00:18/eli-c
Strontium	0.8	mg/L		0.1			1	E200.8	10/30/08 00:18/eli-c
Thallium	0.002	mg/L		0.001			1	E200.8	10/30/08 00:18/eli-c
Uranium	0.0035	mg/L		0.0003			1	E200.8	10/30/08 00:18/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	10/30/08 00:18/eli-c
DATA QUALITY									
A/C Balance (± 5)	-0.720	%					1	A1030 E	12/10/08 00:00/jmh
Anions	11.4	meq/L					1	A1030 E	12/10/08 00:00/jmh
Cations	11.2	meq/L					1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	755	mg/L					1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.970						1	A1030 E	12/10/08 00:00/jmh

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.
 L - Lowest available reporting limit for the analytical method used.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-009
Client Sample ID: DewBurd GW681

Report Date: 12/29/08
Collection Date: 10/20/08 15:00
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	176	mg/L		5		1	A2320 B	10/27/08 16:02/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/27/08 16:02/mb
Bicarbonate as HCO3	215	mg/L		5		1	A2320 B	10/27/08 16:02/mb
Calcium	61.4	mg/L		0.5		2	E200.7	11/05/08 18:01/eli-c
Chloride	17	mg/L		1		1	E300.0	10/23/08 03:21/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	10/23/08 03:21/jmh
Magnesium	23.2	mg/L		0.5		2	E200.7	11/05/08 18:01/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/23/08 18:05/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/23/08 03:21/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/23/08 03:21/jmh
Potassium	9.5	mg/L		0.5		2	E200.7	11/05/08 18:01/eli-c
Sodium	216	mg/L	D	2		2	E200.7	11/05/08 18:01/eli-c
Sulfate	491	mg/L	D	3		50	E300.0	10/23/08 03:05/jmh
Silica	8.5	mg/L		0.2		2	E200.7	11/05/08 18:01/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1380	umhos/cm		5.0		1	A2510 B	10/28/08 17:24/tb
Oxidation-Reduction Potential	210	mV				1	A2580 B	10/27/08 19:00/jmh
pH	8.06	s.u.		0.01		1	A4500-H B	10/28/08 13:47/tb
Sodium Adsorption Ratio (SAR)	6.0	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	880	mg/L		5		1	A2540 C	10/24/08 15:48/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	11/05/08 18:01/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	11/05/08 07:00/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/05/08 07:00/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 18:01/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 07:00/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/05/08 07:00/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 07:00/eli-c
Iron	ND	mg/L		0.03		2	E200.7	11/05/08 18:01/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 07:00/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	11/05/08 07:00/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 07:00/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/05/08 07:00/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/05/08 07:00/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 10:01/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 15:17/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 07:00/eli-c

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 25 of 42
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-009
Client Sample ID: DewBurd GW681

Report Date: 12/29/08
Collection Date: 10/20/08 15:00
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0094	mg/L		0.0003		1	E200.8	11/05/08 07:00/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/05/08 07:00/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/05/08 07:00/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/06/08 16:14/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 14:59/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1440	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Alpha precision (±)	24.5	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Alpha MDC	3.1	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta	412	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta precision (±)	6.6	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta MDC	4.1	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Lead 210	22.6	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	4.0	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	5.1	pCi/L		1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	1.8	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	356	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Radium 226 precision (±)	3.5	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	11/20/08 08:50/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	11/20/08 08:50/eli-c
Gross Gamma	22000	pCi/L				1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	570	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	18.0	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.3	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	1.5	pCi/L		1.0		1	RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1	RMO-3008	11/13/08 12:40/eli-c
Radium 226	1.3	pCi/L				1	E903.0	11/11/08 13:02/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	11/11/08 13:02/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	11/11/08 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.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-009
 Client Sample ID: DewBurd GW681

Report Date: 12/29/08
 Collection Date: 10/20/08 15:00
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	-0.2	pCi/L	U	0.2			1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.02	pCi/L					1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	344000	pCi/L		100			1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	809	pCi/L					1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	11/05/08 17:52/eli-c
Arsenic	0.003	mg/L		0.001			1	E200.8	11/05/08 17:52/eli-c
Barium	ND	mg/L		0.1			2	E200.7	11/05/08 19:28/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	11/05/08 17:52/eli-c
Boron	ND	mg/L		0.1			2	E200.7	11/05/08 19:28/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	11/05/08 17:52/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	11/05/08 19:28/eli-c
Copper	ND	mg/L		0.01			2	E200.7	11/05/08 19:28/eli-c
Iron	0.06	mg/L		0.03			2	E200.7	11/05/08 19:28/eli-c
Lead	ND	mg/L		0.001			1	E200.8	11/05/08 17:52/eli-c
Manganese	0.08	mg/L		0.01			2	E200.7	11/05/08 19:28/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	10/27/08 09:53/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	11/05/08 19:28/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	11/05/08 19:28/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	11/05/08 17:52/eli-c
Silver	ND	mg/L		0.005			1	E200.8	11/05/08 17:52/eli-c
Strontium	1.2	mg/L		0.1			2	E200.7	11/05/08 19:28/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	11/05/08 17:52/eli-c
Uranium	0.0102	mg/L		0.0003			1	E200.8	11/06/08 16:47/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	11/05/08 19:28/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.42	%					1	A1030 E	12/10/08 00:00/jmh
Anions	14.2	meq/L					1	A1030 E	12/10/08 00:00/jmh
Cations	14.6	meq/L					1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	947	mg/L					1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.930						1	A1030 E	12/10/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 27 of 42
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-010
 Client Sample ID: DewBurd GW615

Report Date: 12/29/08
 Collection Date: 10/20/08 16:20
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	136	mg/L		5		1	A2320 B	10/29/08 11:16/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/29/08 11:16/mb
Bicarbonate as HCO3	166	mg/L		5		1	A2320 B	10/29/08 11:16/mb
Calcium	71.0	mg/L		0.5		2	E200.7	11/05/08 18:05/eli-c
Chloride	5	mg/L		1		1	E300.0	10/23/08 03:54/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	10/23/08 03:54/jmh
Magnesium	20.7	mg/L		0.5		2	E200.7	11/05/08 18:05/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/23/08 18:06/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/23/08 03:54/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/23/08 03:54/jmh
Potassium	8.7	mg/L		0.5		2	E200.7	11/05/08 18:05/eli-c
Sodium	133	mg/L	D	2		2	E200.7	11/05/08 18:05/eli-c
Sulfate	414	mg/L	D	3		50	E300.0	10/23/08 03:37/jmh
Silica	8.7	mg/L		0.2		2	E200.7	11/05/08 18:05/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1100	umhos/cm		5.0		1	A2510 B	10/28/08 17:25/tb
Oxidation-Reduction Potential	250	mV				1	A2580 B	10/27/08 19:00/jmh
pH	7.77	s.u.		0.01		1	A4500-H B	10/28/08 13:49/tb
Sodium Adsorption Ratio (SAR)	3.6	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	720	mg/L		5		1	A2540 C	10/24/08 15:48/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	11/05/08 18:05/eli-c
Arsenic	0.012	mg/L		0.001		1	E200.8	11/05/08 07:07/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/05/08 07:07/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 18:05/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 07:07/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/05/08 07:07/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 07:07/eli-c
Iron	0.10	mg/L		0.03		2	E200.7	11/05/08 18:05/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 07:07/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	11/05/08 07:07/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 07:07/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/05/08 07:07/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/05/08 07:07/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 10:04/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 15:23/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 07:07/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-010
Client Sample ID: DewBurd GW615

Report Date: 12/29/08
Collection Date: 10/20/08 16:20
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0023	mg/L		0.0003		1	E200.8	11/05/08 07:07/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/05/08 07:07/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/05/08 07:07/eli-c
METALS - SUSPENDED								
Uranium	0.0032	mg/L		0.0003		1	E200.8	11/06/08 16:18/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 15:02/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	20.9	pCi/L				1	E900.0	11/22/08 01:24/eli-ce
Gross Alpha precision (±)	2.9	pCi/L				1	E900.0	11/22/08 01:24/eli-ce
Gross Alpha MDC	2.4	pCi/L				1	E900.0	11/22/08 01:24/eli-ce
Gross Beta	12.0	pCi/L				1	E900.0	11/22/08 01:24/eli-ce
Gross Beta precision (±)	2.1	pCi/L				1	E900.0	11/22/08 01:24/eli-ce
Gross Beta MDC	3.2	pCi/L				1	E900.0	11/22/08 01:24/eli-ce
Lead 210	-1	pCi/L	U			1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.6	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.25	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	2.7	pCi/L				1	E903.0	11/11/08 02:30/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	11/11/08 02:30/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	11/20/08 08:50/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	11/20/08 08:50/eli-c
Gross Gamma	1100	pCi/L				1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	190	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-3	pCi/L	U			1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.0	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.22	pCi/L				1	RMO-3008	11/13/08 12:40/eli-c
Radium 226	-0.1	pCi/L	U			1	E903.0	11/11/08 13:02/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	11/11/08 13:02/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	11/11/08 13:02/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-010
 Client Sample ID: DewBurd GW615

Report Date: 12/29/08
 Collection Date: 10/20/08 16:20
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Thorium 230	-0.2	pCi/L	U	0.2		1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	1890	pCi/L		100		1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	87.8	pCi/L				1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	11/05/08 17:59/eli-c
Arsenic	0.024	mg/L		0.001		1	E200.8	11/05/08 17:59/eli-c
Barium	ND	mg/L		0.1		2	E200.7	11/05/08 19:32/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	11/05/08 17:59/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 19:32/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 17:59/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	11/05/08 19:32/eli-c
Copper	ND	mg/L		0.01		2	E200.7	11/05/08 19:32/eli-c
Iron	1.34	mg/L		0.03		2	E200.7	11/05/08 19:32/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 17:59/eli-c
Manganese	0.07	mg/L		0.01		2	E200.7	11/05/08 19:32/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/27/08 09:56/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	11/05/08 19:32/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	11/05/08 19:32/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	11/05/08 17:59/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 17:59/eli-c
Strontium	1.4	mg/L		0.1		2	E200.7	11/05/08 19:32/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	11/05/08 17:59/eli-c
Uranium	0.0026	mg/L		0.0003		1	E200.8	11/06/08 17:08/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	11/05/08 19:32/eli-c
DATA QUALITY								
A/C Balance (± 5)	-1.01	%				1	A1030 E	12/10/08 00:00/jmh
Anions	11.5	meq/L				1	A1030 E	12/10/08 00:00/jmh
Cations	11.3	meq/L				1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	758	mg/L				1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960					1	A1030 E	12/10/08 00:00/jmh

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-011
Client Sample ID: DewBurd GW697

Report Date: 12/29/08
Collection Date: 10/21/08 09:45
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B	10/29/08 11:18/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/29/08 11:18/mb
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B	10/29/08 11:18/mb
Calcium	52.9	mg/L		0.5		2	E200.7	11/05/08 18:56/eli-c
Chloride	8	mg/L		1		1	E300.0	10/23/08 04:27/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	10/23/08 04:27/jmh
Magnesium	17.3	mg/L		0.5		2	E200.7	11/05/08 18:56/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	10/23/08 18:07/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/23/08 04:27/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/23/08 04:27/jmh
Potassium	8.4	mg/L		0.5		2	E200.7	11/05/08 18:56/eli-c
Sodium	210	mg/L	D	2		2	E200.7	11/05/08 18:56/eli-c
Sulfate	560	mg/L	D	3		50	E300.0	10/23/08 04:10/jmh
Silica	9.3	mg/L		0.2		2	E200.7	11/05/08 18:56/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1280	umhos/cm		5.0		1	A2510 B	10/28/08 17:28/tb
Oxidation-Reduction Potential	210	mV				1	A2580 B	10/27/08 19:00/jmh
pH	8.15	s.u.		0.01		1	A4500-H B	10/28/08 13:52/tb
Sodium Adsorption Ratio (SAR)	6.4	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	1000	mg/L		5		1	A2540 C	10/24/08 15:49/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	11/05/08 18:56/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	11/05/08 15:57/eli-c
Barium	ND	mg/L		0.1		2	E200.7	11/05/08 18:56/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 18:56/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 15:57/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	11/05/08 18:56/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 15:57/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	11/05/08 18:56/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 15:57/eli-c
Manganese	0.06	mg/L		0.01		2	E200.7	11/05/08 18:56/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 15:57/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	11/05/08 18:56/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	11/05/08 18:56/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 10:06/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 15:57/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 15:57/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.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-011
Client Sample ID: DewBurd GW697

Report Date: 12/29/08
Collection Date: 10/21/08 09:45
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	ND	mg/L		0.0003		1 E200.8	11/06/08 17:12/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	11/05/08 18:56/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	11/05/08 18:56/eli-c
METALS - SUSPENDED							
Uranium	0.0006	mg/L		0.0003		1 E200.8	11/06/08 16:22/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	10/30/08 15:04/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	7.3	pCi/L				1 E900.0	11/24/08 07:45/eli-c
Gross Alpha precision (±)	2.4	pCi/L				1 E900.0	11/24/08 07:45/eli-c
Gross Alpha MDC	2.9	pCi/L				1 E900.0	11/24/08 07:45/eli-c
Gross Beta	3.6	pCi/L	U			1 E900.0	11/24/08 07:45/eli-c
Gross Beta precision (±)	2.2	pCi/L				1 E900.0	11/24/08 07:45/eli-c
Gross Beta MDC	3.6	pCi/L				1 E900.0	11/24/08 07:45/eli-c
Lead 210	-2	pCi/L	U			1 E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.6	pCi/L				1 E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1 E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1 RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.35	pCi/L				1 RMO-3008	11/19/08 09:23/eli-c
Radium 226	0.6	pCi/L				1 E903.0	11/11/08 02:30/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	11/11/08 02:30/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	11/20/08 13:36/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1 E907.0	11/20/08 13:36/eli-c
Gross Gamma	1700	pCi/L				1 E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	240	pCi/L				1 E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-2	pCi/L	U			1 E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.0	pCi/L				1 E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1 E909.0M	11/11/08 10:15/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1 RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.27	pCi/L				1 RMO-3008	11/13/08 12:40/eli-c
Radium 226	0.05	pCi/L	U			1 E903.0	11/11/08 13:02/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	11/11/08 13:02/eli-c
Radium 226 MDC	0.5	pCi/L				1 E903.0	11/11/08 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.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-011
Client Sample ID: DewBurd GW697

Report Date: 12/29/08
Collection Date: 10/21/08 09:45
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	-0.1	pCi/L	U	0.2			1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	319	pCi/L		100			1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	60.7	pCi/L					1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	11/05/08 18:06/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	11/05/08 18:06/eli-c
Barium	ND	mg/L		0.1			2	E200.7	11/05/08 19:49/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	11/05/08 18:06/eli-c
Boron	ND	mg/L		0.1			2	E200.7	11/05/08 19:49/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	11/05/08 18:06/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	11/05/08 19:49/eli-c
Copper	ND	mg/L		0.01			2	E200.7	11/05/08 19:49/eli-c
Iron	0.06	mg/L		0.03			2	E200.7	11/05/08 19:49/eli-c
Lead	ND	mg/L		0.001			1	E200.8	11/05/08 18:06/eli-c
Manganese	0.06	mg/L		0.01			2	E200.7	11/05/08 19:49/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	10/27/08 12:41/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	11/05/08 19:49/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	11/05/08 19:49/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	11/05/08 18:06/eli-c
Silver	ND	mg/L		0.005			1	E200.8	11/05/08 18:06/eli-c
Strontium	1.1	mg/L		0.1			2	E200.7	11/05/08 19:49/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	11/05/08 18:06/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	11/06/08 17:16/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	11/05/08 19:49/eli-c
DATA QUALITY									
A/C Balance (± 5)	-6.31	%					1	A1030 E	12/10/08 00:00/jmh
Anions	15.2	meq/L					1	A1030 E	12/10/08 00:00/jmh
Cations	13.4	meq/L					1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	983	mg/L					1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.03						1	A1030 E	12/10/08 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



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-012
Client Sample ID: DewBurd GW695

Report Date: 12/29/08
Collection Date: 10/21/08 09:10
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	172	mg/L		5		1	A2320 B	10/29/08 11:22/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/29/08 11:22/mb
Bicarbonate as HCO3	210	mg/L		5		1	A2320 B	10/29/08 11:22/mb
Calcium	51.4	mg/L		0.5		2	E200.7	11/05/08 19:08/eli-c
Chloride	13	mg/L		1		1	E300.0	10/23/08 06:05/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	10/23/08 06:05/jmh
Magnesium	18.5	mg/L		0.5		2	E200.7	11/05/08 19:08/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	10/23/08 18:09/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/23/08 06:05/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/23/08 06:05/jmh
Potassium	8.5	mg/L		0.5		2	E200.7	11/05/08 19:08/eli-c
Sodium	246	mg/L	D	2		2	E200.7	11/05/08 19:08/eli-c
Sulfate	478	mg/L	D	3		50	E300.0	10/23/08 05:16/jmh
Silica	8.8	mg/L		0.2		2	E200.7	11/05/08 19:08/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1440	umhos/cm		5.0		1	A2510 B	10/28/08 17:30/tb
Oxidation-Reduction Potential	230	mV				1	A2580 B	10/27/08 19:00/jmh
pH	8.07	s.u.		0.01		1	A4500-H B	10/28/08 13:54/tb
Sodium Adsorption Ratio (SAR)	7.5	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	1100	mg/L		5		1	A2540 C	10/24/08 15:49/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	11/05/08 19:08/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	11/05/08 16:04/eli-c
Barium	ND	mg/L		0.1		2	E200.7	11/05/08 19:08/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 19:08/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 16:04/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	11/05/08 19:08/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 16:04/eli-c
Iron	ND	mg/L		0.03		2	E200.7	11/05/08 19:08/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 16:04/eli-c
Manganese	0.08	mg/L		0.01		2	E200.7	11/05/08 19:08/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 16:04/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	11/05/08 19:08/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	11/05/08 19:08/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 10:13/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 16:04/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 16:04/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-012
Client Sample ID: DewBurd GW695

Report Date: 12/29/08
Collection Date: 10/21/08 09:10
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0030	mg/L		0.0003		1 E200.8	11/06/08 17:20/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	11/05/08 19:08/eli-c
Zinc	0.02	mg/L		0.01		2 E200.7	11/05/08 19:08/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	11/06/08 16:26/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	10/30/08 15:11/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	27.8	pCi/L				1 E900.0	11/24/08 07:45/eli-ca
Gross Alpha precision (±)	3.9	pCi/L				1 E900.0	11/24/08 07:45/eli-ca
Gross Alpha MDC	3.1	pCi/L				1 E900.0	11/24/08 07:45/eli-ca
Gross Beta	11.6	pCi/L				1 E900.0	11/24/08 07:45/eli-ca
Gross Beta precision (±)	2.6	pCi/L				1 E900.0	11/24/08 07:45/eli-ca
Gross Beta MDC	4.1	pCi/L				1 E900.0	11/24/08 07:45/eli-ca
Lead 210	-0.4	pCi/L	U			1 E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.7	pCi/L				1 E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1 E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.25	pCi/L				1 RMO-3008	11/19/08 09:23/eli-c
Radium 226	4.0	pCi/L				1 E903.0	11/11/08 02:30/eli-c
Radium 226 precision (±)	0.4	pCi/L				1 E903.0	11/11/08 02:30/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1 E907.0	11/20/08 13:36/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	11/20/08 13:36/eli-c
Gross Gamma	1100	pCi/L				1 E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	250	pCi/L				1 E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-1	pCi/L	U			1 E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.0	pCi/L				1 E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1 E909.0M	11/11/08 10:15/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.22	pCi/L				1 RMO-3008	11/13/08 12:40/eli-c
Radium 226	-0.3	pCi/L	U			1 E903.0	11/11/08 13:02/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	11/11/08 13:02/eli-c
Radium 226 MDC	0.5	pCi/L				1 E903.0	11/11/08 13:02/eli-c

Report RL - Analyte reporting limit.
Definitions: 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: R08100295-012
Client Sample ID: DewBurd GW695

Report Date: 12/29/08
Collection Date: 10/21/08 09:10
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1860	pCi/L		100			1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	79.1	pCi/L					1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	11/05/08 18:13/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	11/05/08 18:13/eli-c
Barium	ND	mg/L		0.1			2	E200.7	11/05/08 19:53/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	11/05/08 18:13/eli-c
Boron	ND	mg/L		0.1			2	E200.7	11/05/08 19:53/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	11/05/08 18:13/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	11/05/08 19:53/eli-c
Copper	ND	mg/L		0.01			2	E200.7	11/05/08 19:53/eli-c
Iron	0.16	mg/L		0.03			2	E200.7	11/05/08 19:53/eli-c
Lead	ND	mg/L		0.001			1	E200.8	11/05/08 18:13/eli-c
Manganese	0.08	mg/L		0.01			2	E200.7	11/05/08 19:53/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	10/27/08 12:48/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	11/05/08 19:53/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	11/05/08 19:53/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	11/05/08 18:13/eli-c
Silver	ND	mg/L		0.005			1	E200.8	11/05/08 18:13/eli-c
Strontium	0.9	mg/L		0.1			2	E200.7	11/05/08 19:53/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	11/05/08 18:13/eli-c
Uranium	0.0030	mg/L		0.0003			1	E200.8	11/06/08 17:25/eli-c
Zinc	0.01	mg/L		0.01			2	E200.7	11/05/08 19:53/eli-c
DATA QUALITY									
A/C Balance (± 5)	4.33	%					1	A1030 E	12/10/08 00:00/jmh
Anions	13.8	meq/L					1	A1030 E	12/10/08 00:00/jmh
Cations	15.0	meq/L					1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	942	mg/L					1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.15						1	A1030 E	12/10/08 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



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-013
Client Sample ID: DewBurd GW694

Report Date: 12/29/08
Collection Date: 10/21/08 08:25
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	202	mg/L		5			1	A2320 B	10/29/08 11:24/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	10/29/08 11:24/mb
Bicarbonate as HCO3	246	mg/L		5			1	A2320 B	10/29/08 11:24/mb
Calcium	98.8	mg/L		0.5			2	E200.7	11/05/08 19:16/eli-c
Chloride	9	mg/L		1			1	E300.0	10/23/08 06:38/jmh
Fluoride	0.2	mg/L		0.1			1	E300.0	10/23/08 06:38/jmh
Magnesium	36.5	mg/L		0.5			2	E200.7	11/05/08 19:16/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1			1	A4500-NH3 G	10/23/08 18:10/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	10/23/08 06:38/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	10/23/08 06:38/jmh
Potassium	12.9	mg/L		0.5			2	E200.7	11/05/08 19:16/eli-c
Sodium	177	mg/L	D	2			2	E200.7	11/05/08 19:16/eli-c
Sulfate	519	mg/L	D	3			50	E300.0	10/23/08 06:22/jmh
Silica	9.3	mg/L		0.2			2	E200.7	11/05/08 19:16/eli-c
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1450	umhos/cm		5.0			1	A2510 B	10/28/08 17:31/tb
Oxidation-Reduction Potential	240	mV					1	A2580 B	10/27/08 19:00/jmh
pH	7.96	s.u.		0.01			1	A4500-H B	10/28/08 13:56/tb
Sodium Adsorption Ratio (SAR)	3.9	unitless		0.10			1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	1100	mg/L		5			1	A2540 C	10/24/08 15:50/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	11/05/08 19:16/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	11/05/08 16:11/eli-c
Barium	ND	mg/L		0.1			2	E200.7	11/05/08 19:16/eli-c
Boron	ND	mg/L		0.1			2	E200.7	11/05/08 19:16/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	11/05/08 16:11/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	11/05/08 19:16/eli-c
Copper	ND	mg/L		0.01			1	E200.8	11/05/08 16:11/eli-c
Iron	ND	mg/L		0.03			2	E200.7	11/05/08 19:16/eli-c
Lead	ND	mg/L		0.001			1	E200.8	11/05/08 16:11/eli-c
Manganese	0.16	mg/L		0.01			2	E200.7	11/05/08 19:16/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	11/05/08 16:11/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	11/05/08 19:16/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	11/05/08 19:16/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	10/31/08 10:15/eli-c
Silver	ND	mg/L		0.005			1	E200.8	11/05/08 16:11/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	11/05/08 16:11/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: R08100295-013
Client Sample ID: DewBurd GW694

Report Date: 12/29/08
Collection Date: 10/21/08 08:25
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0006	mg/L		0.0003		1	E200.8	11/06/08 17:29/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	11/05/08 19:16/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	11/05/08 19:16/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/06/08 16:31/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 15:13/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	9.1	pCi/L				1	E900.0	11/24/08 07:45/eli-ca
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0	11/24/08 07:45/eli-ca
Gross Alpha MDC	3.3	pCi/L				1	E900.0	11/24/08 07:45/eli-ca
Gross Beta	11.1	pCi/L				1	E900.0	11/24/08 07:45/eli-ca
Gross Beta precision (±)	2.6	pCi/L				1	E900.0	11/24/08 07:45/eli-ca
Gross Beta MDC	4.1	pCi/L				1	E900.0	11/24/08 07:45/eli-ca
Lead 210	-1	pCi/L	U			1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.6	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	1.4	pCi/L				1	E903.0	11/11/08 02:30/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	11/11/08 02:30/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	11/20/08 13:36/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	11/20/08 13:36/eli-c
Gross Gamma	1200	pCi/L				1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	260	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-2	pCi/L	U			1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.0	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.17	pCi/L				1	RMO-3008	11/13/08 12:40/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	11/11/08 14:35/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	11/11/08 14:35/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	11/11/08 14:35/eli-c

Report RL - Analyte reporting limit.
Definitions: 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: R08100295-013
Client Sample ID: DewBurd GW694

Report Date: 12/29/08
Collection Date: 10/21/08 08:25
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1 E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	281	pCi/L		100		1 D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	60.8	pCi/L				1 D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	11/05/08 18:47/eli-c
Arsenic	0.002	mg/L		0.001		1 E200.8	11/05/08 18:47/eli-c
Barium	ND	mg/L		0.1		2 E200.7	11/05/08 19:57/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	11/05/08 18:47/eli-c
Boron	ND	mg/L		0.1		2 E200.7	11/05/08 19:57/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	11/05/08 18:47/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	11/05/08 19:57/eli-c
Copper	ND	mg/L		0.01		2 E200.7	11/05/08 19:57/eli-c
Iron	0.17	mg/L		0.03		2 E200.7	11/05/08 19:57/eli-c
Lead	ND	mg/L		0.001		1 E200.8	11/05/08 18:47/eli-c
Manganese	0.16	mg/L		0.01		2 E200.7	11/05/08 19:57/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	10/27/08 12:50/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	11/05/08 19:57/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	11/05/08 19:57/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	11/05/08 18:47/eli-c
Silver	ND	mg/L		0.005		1 E200.8	11/05/08 18:47/eli-c
Strontium	2.8	mg/L		0.1		2 E200.7	11/05/08 19:57/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	11/05/08 18:47/eli-c
Uranium	0.0006	mg/L		0.0003		1 E200.8	11/06/08 17:33/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	11/05/08 19:57/eli-c
DATA QUALITY							
A/C Balance (± 5)	2.88	%				1 A1030 E	12/10/08 00:00/jmh
Anions	15.1	meq/L				1 A1030 E	12/10/08 00:00/jmh
Cations	16.0	meq/L				1 A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	999	mg/L				1 A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.06					1 A1030 E	12/10/08 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: 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: R08100295-014
Client Sample ID: DewBurd GW696

Report Date: 12/29/08
Collection Date: 10/21/08 08:45
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	180	mg/L		5		1	A2320 B	10/29/08 11:27/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/29/08 11:27/mb
Bicarbonate as HCO3	219	mg/L		5		1	A2320 B	10/29/08 11:27/mb
Calcium	30.3	mg/L		0.5		2	E200.7	11/05/08 19:20/eli-c
Chloride	13	mg/L		1		1	E300.0	10/23/08 07:11/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	10/23/08 07:11/jmh
Magnesium	10.6	mg/L		0.5		2	E200.7	11/05/08 19:20/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	10/23/08 18:11/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/23/08 07:11/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/23/08 07:11/jmh
Potassium	8.9	mg/L		0.5		2	E200.7	11/05/08 19:20/eli-c
Sodium	282	mg/L	D	2		2	E200.7	11/05/08 19:20/eli-c
Sulfate	493	mg/L	D	3		50	E300.0	10/23/08 06:54/jmh
Silica	9.8	mg/L		0.2		2	E200.7	11/05/08 19:20/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1490	umhos/cm		5.0		1	A2510 B	10/28/08 17:32/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	10/27/08 19:00/jmh
pH	8.26	s.u.		0.01		1	A4500-H B	10/28/08 13:58/tb
Sodium Adsorption Ratio (SAR)	11	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	950	mg/L		5		1	A2540 C	10/24/08 15:50/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	11/05/08 19:20/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/05/08 16:18/eli-c
Barium	ND	mg/L		0.1		2	E200.7	11/05/08 19:20/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 19:20/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 16:18/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	11/05/08 19:20/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 16:18/eli-c
Iron	ND	mg/L		0.03		2	E200.7	11/05/08 19:20/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 16:18/eli-c
Manganese	0.06	mg/L		0.01		2	E200.7	11/05/08 19:20/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 16:18/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	11/05/08 19:20/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	11/05/08 19:20/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 10:18/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 16:18/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 16:18/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: R08100295-014
 Client Sample ID: DewBurd GW696

Report Date: 12/29/08
 Collection Date: 10/21/08 08:45
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	ND	mg/L		0.0003		1	E200.8 11/06/08 17:37/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 11/05/08 19:20/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 11/05/08 19:20/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 11/06/08 16:43/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 10/30/08 15:15/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	9.8	pCi/L				1	E900.0 11/24/08 07:45/eli-ce
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0 11/24/08 07:45/eli-ce
Gross Alpha MDC	3.3	pCi/L				1	E900.0 11/24/08 07:45/eli-ce
Gross Beta	9.1	pCi/L				1	E900.0 11/24/08 07:45/eli-ce
Gross Beta precision (±)	2.3	pCi/L				1	E900.0 11/24/08 07:45/eli-ce
Gross Beta MDC	3.6	pCi/L				1	E900.0 11/24/08 07:45/eli-ce
Lead 210	-1	pCi/L	U			1	E909.0M 11/06/08 09:13/eli-c
Lead 210 precision (±)	3.6	pCi/L				1	E909.0M 11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M 11/06/08 09:13/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008 11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008 11/19/08 09:23/eli-c
Radium 226	0.8	pCi/L				1	E903.0 11/11/08 02:30/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0 11/11/08 02:30/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 11/20/08 13:36/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 11/20/08 13:36/eli-c
Gross Gamma	1100	pCi/L				1	E901.1 10/27/08 11:00/eli-c
Gross Gamma precision (±)	210	pCi/L				1	E901.1 10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-0.7	pCi/L	U			1	E909.0M 11/11/08 10:15/eli-c
Lead 210 precision (±)	4.0	pCi/L				1	E909.0M 11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M 11/11/08 10:15/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008 11/13/08 15:31/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008 11/13/08 15:31/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0 11/11/08 14:35/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0 11/11/08 14:35/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0 11/11/08 14:35/eli-c

Report RL - Analyte reporting limit.
 Definitions: 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: R08100295-014
Client Sample ID: DewBurd GW696

Report Date: 12/29/08
Collection Date: 10/21/08 08:45
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	-0.3	pCi/L	U	0.2		1 E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1 E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	260	pCi/L		100		1 D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	60.4	pCi/L				1 D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	11/05/08 18:53/eli-c
Arsenic	ND	mg/L		0.001		1 E200.8	11/05/08 18:53/eli-c
Barium	ND	mg/L		0.1		2 E200.7	11/05/08 20:01/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	11/05/08 18:53/eli-c
Boron	ND	mg/L		0.1		2 E200.7	11/05/08 20:01/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	11/05/08 18:53/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	11/05/08 20:01/eli-c
Copper	ND	mg/L		0.01		2 E200.7	11/05/08 20:01/eli-c
Iron	0.13	mg/L		0.03		2 E200.7	11/05/08 20:01/eli-c
Lead	ND	mg/L		0.001		1 E200.8	11/05/08 18:53/eli-c
Manganese	0.06	mg/L		0.01		2 E200.7	11/05/08 20:01/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	10/27/08 12:53/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	11/05/08 20:01/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	11/05/08 20:01/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	11/05/08 18:53/eli-c
Silver	ND	mg/L		0.005		1 E200.8	11/05/08 18:53/eli-c
Strontium	0.8	mg/L		0.1		2 E200.7	11/05/08 20:01/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	11/05/08 18:53/eli-c
Uranium	ND	mg/L		0.0003		1 E200.8	11/06/08 18:06/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	11/05/08 20:01/eli-c
DATA QUALITY							
A/C Balance (± 5)	2.18	%				1 A1030 E	12/10/08 00:00/jmh
Anions	14.3	meq/L				1 A1030 E	12/10/08 00:00/jmh
Cations	14.9	meq/L				1 A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	973	mg/L				1 A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.970					1 A1030 E	12/10/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 42 of 42
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/29/08
Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 081027A-ALK-SEL-W		
Sample ID: LCS1_081027A Alkalinity, Total as CaCO3	Laboratory Control Sample 976	mg/L	5.0	98	90	110			10/27/08 14:01
Sample ID: MBLK1_081027A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						10/27/08 14:04
Sample ID: R08100295-001AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 116	mg/L	5.0	109	80	120			10/27/08 15:42
Sample ID: R08100295-001AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 118	mg/L	5.0	111	80	120	1.7	10	10/27/08 15:44
Method: A2320 B							Batch: 081029A-ALK-SEL-W		
Sample ID: LCS1_081029A Alkalinity, Total as CaCO3	Laboratory Control Sample 936	mg/L	5.0	94	90	110			10/29/08 11:04
Sample ID: MBLK1_081029A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						10/29/08 11:09
Sample ID: R08100308-003AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 276	mg/L	5.0	109	80	120			10/29/08 11:49
Sample ID: R08100308-003AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 276	mg/L	5.0	109	80	120	0	10	10/29/08 11:52
Method: A2510 B							Batch: 081028_1_COND-PROBE-W		
Sample ID: LCS_COND-1_081028 Conductivity @ 25 C	Laboratory Control Sample 1440	umhos/cm	5.0	102	90	110			10/28/08 16:56
Sample ID: LCS1-1_081028 Conductivity @ 25 C	Laboratory Control Sample 154	umhos/cm	5.0	103	90	110			10/28/08 16:58
Sample ID: LCS2-1_081028 Conductivity @ 25 C	Laboratory Control Sample 4990	umhos/cm	5.0	100	90	110			10/28/08 16:59
Sample ID: MBLK-1_081028 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						10/28/08 17:03
Sample ID: R08100295-010ADUP Conductivity @ 25 C	Sample Duplicate 1110	umhos/cm	5.0				0.9	10	10/28/08 17:27

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 081024A-SLDS-TDS-W		
Sample ID: LCS1_081024A	Laboratory Control Sample								
Solids, Total Dissolved TDS @ 180 C	190	mg/L	5.0	93	90	110			10/24/08 15:25
Sample ID: MBLK1_081024A	Method Blank								
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						10/24/08 15:26
Sample ID: R08100290-007AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	2800	mg/L	5.0	113	80	120			10/24/08 15:42
Sample ID: R08100290-007AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	2700	mg/L	5.0	83	80	120	2.2	10	10/24/08 15:42
Sample ID: R08100295-006AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	95	80	120			10/24/08 15:46
Sample ID: R08100295-006AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	99	80	120	0.7	10	10/24/08 15:46
Sample ID: R08100297-002AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	970	mg/L	5.0	96	80	120			10/24/08 15:51
Sample ID: R08100297-002AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	1000	mg/L	5.0	125	80	120	5.8	10	10/24/08 15:52
Method: A2580 B							Batch: 081027-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample								
Oxidation-Reduction Potential	470	mV		98	95	105			10/27/08 19:00
Sample ID: R08100295-010F	Sample Duplicate								
Oxidation-Reduction Potential	260	mV					2.4	10	10/27/08 19:00
Sample ID: R08100295-014F	Sample Duplicate								
Oxidation-Reduction Potential	200	mV					1.3	10	10/27/08 19:00

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: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-081030B		
Sample ID: MBLK Selenium-IV	Method Blank ND	mg/L	0.0003			Run: SUB-C110108			10/30/08 14:25
Sample ID: 288-162-4 Selenium-IV	Laboratory Control Sample 0.055	mg/L	0.0010	109	90	110			10/30/08 14:27
Sample ID: R08100295-001E Selenium-IV	Sample Matrix Spike 0.051	mg/L	0.0010	101	85	115			10/30/08 14:34
Sample ID: R08100295-001E Selenium-IV	Sample Matrix Spike Duplicate 0.051	mg/L	0.0010	102	85	115	0.7	10	10/30/08 14:36
Sample ID: R08100295-011E Selenium-IV	Sample Matrix Spike 0.050	mg/L	0.0010	100	85	115			10/30/08 15:06
Sample ID: R08100295-011E Selenium-IV	Sample Matrix Spike Duplicate 0.051	mg/L	0.0010	101	85	115	1	10	10/30/08 15:08
Method: A3114 B							Batch: C_SE3114-081031A		
Sample ID: MBLK Selenium	Method Blank ND	mg/L	0.0003			Run: SUB-C110150			10/31/08 09:27
Sample ID: 288-162-4 Selenium	Laboratory Control Sample 0.047	mg/L	0.0010	94	90	110			10/31/08 09:29
Sample ID: R08100295-001E Selenium	Sample Matrix Spike 0.051	mg/L	0.0010	102	85	115			10/31/08 09:36
Sample ID: R08100295-001E Selenium	Sample Matrix Spike Duplicate 0.052	mg/L	0.0010	104	85	115	1.8	15	10/31/08 09:38
Sample ID: R08100295-011E Selenium	Sample Matrix Spike 0.047	mg/L	0.0010	94	85	115			10/31/08 10:08
Sample ID: R08100295-011E Selenium	Sample Matrix Spike Duplicate 0.049	mg/L	0.0010	97	85	115	3.2	15	10/31/08 10:11
Method: A4500-H B							Batch: 081028_1_PH-W		
Sample ID: LCS_pH-1_081028 pH	Laboratory Control Sample 6.87	s.u.	0.010	100	98.55	101.45			10/28/08 13:13
Sample ID: R08100295-009ADUP pH	Sample Duplicate 8.07	s.u.	0.010			Run: PH_COND2-R_081028A	0.1	1.25	10/28/08 13:48

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/29/08
Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-10-23_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_081023A			10/23/08 15:23
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	105	90	110			
						Run: TECHAA2-R_081023A			10/23/08 15:24
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27	mg/L	0.10	107	90	110			
						Run: TECHAA2-R_081023A			10/23/08 15:25
Sample ID: R08100291-003CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.24	mg/L	0.10	96	80	120			
						Run: TECHAA2-R_081023A			10/23/08 17:47
Sample ID: R08100291-003CMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.23	mg/L	0.10	94	80	120	2.5	10	
						Run: TECHAA2-R_081023A			10/23/08 17:49
Sample ID: R08100295-007BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.67	mg/L	0.10	92	80	120			
						Run: TECHAA2-R_081023A			10/23/08 18:02
Sample ID: R08100295-007BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.67	mg/L	0.10	91	80	120	0.1	10	
						Run: TECHAA2-R_081023A			10/23/08 18:03
Method: D5072-92							Batch: C_R109879		
Sample ID: R08100295-014G Radon 222	Sample Duplicate 260	pCi/L	100				0	30	
						Run: SUB-C109879			10/24/08 12:24
Sample ID: MB-R109879 Radon 222	Method Blank 7	pCi/L							U
						Run: SUB-C109879			10/24/08 12:24
Sample ID: LCS-R109879 Radon 222	Laboratory Control Sample 300	pCi/L	100	99	70	130			
						Run: SUB-C109879			10/24/08 12:24

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: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_20305		
Sample ID: MB-20305	Method Blank				Run: SUB-C110446		11/05/08 20:17		
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Strontium	ND	mg/L	0.0004						
Sample ID: LCS3-20305	Laboratory Control Sample				Run: SUB-C110446		11/05/08 20:21		
Boron	0.503	mg/L	0.10	99	85	115			
Iron	2.74	mg/L	0.030	109	85	115			
Manganese	2.52	mg/L	0.010	101	85	115			
Strontium	0.525	mg/L	0.10	105	85	115			
Sample ID: R08100295-008D	Sample Matrix Spike				Run: SUB-C110446		11/05/08 21:14		
Boron	0.557	mg/L	0.10	98	70	130			
Iron	3.27	mg/L	0.030	106	70	130			
Manganese	2.54	mg/L	0.010	100	70	130			
Strontium	1.43	mg/L	0.10	99	70	130			
Sample ID: R08100295-008D	Sample Matrix Spike Duplicate				Run: SUB-C110446		11/05/08 21:18		
Boron	0.543	mg/L	0.10	95	70	130	2.6	20	
Iron	3.26	mg/L	0.030	106	70	130	0.5	20	
Manganese	2.50	mg/L	0.010	98	70	130	1.7	20	
Strontium	1.39	mg/L	0.10	91	70	130	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: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R110446
Sample ID: MB-081105A	Method Blank								Run: SUB-C110446 11/05/08 11:44
Silicon	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	0.03	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	0.003	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Strontium	ND	mg/L	0.0002						
Vanadium	0.005	mg/L	0.003						
Zinc	ND	mg/L	0.002						
Silica	ND	mg/L	0.04						
Sample ID: LFB-081105A	Laboratory Fortified Blank								Run: SUB-C110446 11/05/08 11:48
Silicon	0.36	mg/L	0.021	89	85	125			
Aluminum	0.87	mg/L	0.10	87	85	125			
Barium	0.93	mg/L	0.10	93	85	125			
Boron	0.97	mg/L	0.10	94	85	125			
Calcium	49	mg/L	0.50	99	85	125			
Chromium	0.93	mg/L	0.050	93	85	125			
Copper	0.94	mg/L	0.010	94	85	125			
Iron	0.96	mg/L	0.030	96	85	125			
Magnesium	50	mg/L	0.50	100	85	125			
Manganese	0.94	mg/L	0.010	94	85	125			
Molybdenum	0.93	mg/L	0.10	92	85	125			
Nickel	0.93	mg/L	0.050	93	85	125			
Potassium	44	mg/L	0.50	87	85	125			
Sodium	47	mg/L	0.77	94	85	125			
Strontium	0.92	mg/L	0.10	92	85	125			
Vanadium	0.97	mg/L	0.10	96	85	125			
Zinc	0.92	mg/L	0.010	92	85	125			
Silica	0.76	mg/L	0.044	89	85	125			
Sample ID: R08100295-001C	Sample Matrix Spike								Run: SUB-C110446 11/05/08 17:08
Aluminum	2.04	mg/L	0.10	102	70	130			
Barium	1.95	mg/L	0.10	98	70	130			
Boron	1.98	mg/L	0.10	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: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R110446		
Sample ID: R08100295-001C	Sample Matrix Spike			Run: SUB-C110446			11/05/08 17:08		
Chromium	1.95	mg/L	0.050	98	70	130			
Copper	1.94	mg/L	0.010	97	70	130			
Iron	1.96	mg/L	0.030	98	70	130			
Manganese	1.94	mg/L	0.010	97	70	130			
Molybdenum	2.14	mg/L	0.10	76	70	130			
Nickel	1.94	mg/L	0.050	97	70	130			
Silicon	0.845	mg/L	0.10	77	70	130			
Strontium	1.94	mg/L	0.10	97	70	130			
Vanadium	1.92	mg/L	0.10	96	70	130			
Zinc	1.95	mg/L	0.010	97	70	130			
Calcium	99.9	mg/L	1.0	100	70	130			
Magnesium	97.9	mg/L	1.0	98	70	130			
Potassium	92.1	mg/L	1.0	92	70	130			
Sodium	97.4	mg/L	1.5	97	70	130			
Silica	1.81	mg/L	0.21	76	70	130			
Sample ID: R08100295-001C	Sample Matrix Spike Duplicate			Run: SUB-C110446			11/05/08 17:12		
Aluminum	2.02	mg/L	0.10	100	70	130	1.3	20	
Barium	1.93	mg/L	0.10	96	70	130	1.3	20	
Boron	1.99	mg/L	0.10	99	70	130	0.1	20	
Chromium	1.94	mg/L	0.050	97	70	130	0.6	20	
Copper	1.94	mg/L	0.010	97	70	130	0.2	20	
Iron	1.96	mg/L	0.030	98	70	130	0.1	20	
Manganese	1.94	mg/L	0.010	97	70	130	0.3	20	
Molybdenum	2.05	mg/L	0.10	72	70	130	3.9	20	
Nickel	1.93	mg/L	0.050	96	70	130	0.7	20	
Silicon	0.808	mg/L	0.10	72	70	130	4.4	20	
Strontium	1.96	mg/L	0.10	98	70	130	0.9	20	
Vanadium	1.92	mg/L	0.10	96	70	130	0.1	20	
Zinc	1.95	mg/L	0.010	98	70	130	0.2	20	
Calcium	97.7	mg/L	1.0	98	70	130	2.2	20	
Magnesium	96.9	mg/L	1.0	97	70	130	1.1	20	
Potassium	92.2	mg/L	1.0	92	70	130	0.2	20	
Sodium	96.7	mg/L	1.5	97	70	130	0.7	20	
Silica	1.73	mg/L	0.21	72	70	130	4.4	20	
Sample ID: R08100295-011C	Sample Matrix Spike			Run: SUB-C110446			11/05/08 19:00		
Aluminum	1.82	mg/L	0.10	91	70	130			
Barium	1.95	mg/L	0.10	97	70	130			
Boron	2.11	mg/L	0.10	101	70	130			
Chromium	1.97	mg/L	0.050	98	70	130			
Copper	1.98	mg/L	0.010	99	70	130			
Iron	2.06	mg/L	0.030	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: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R110446		
Sample ID: R08100295-011C	Sample Matrix Spike			Run: SUB-C110446			11/05/08 19:00		
Manganese	2.00	mg/L	0.010	97	70	130			
Molybdenum	1.93	mg/L	0.10	97	70	130			
Nickel	1.97	mg/L	0.050	99	70	130			
Silicon	4.91	mg/L	0.10		70	130			A
Strontium	3.18	mg/L	0.10	102	70	130			
Vanadium	2.06	mg/L	0.10	103	70	130			
Zinc	1.98	mg/L	0.010	99	70	130			
Calcium	154	mg/L	1.0	101	70	130			
Magnesium	120	mg/L	1.0	103	70	130			
Potassium	98.3	mg/L	1.0	90	70	130			
Sodium	309	mg/L	1.5	99	70	130			
Silica	10.5	mg/L	0.21		70	130			A
Sample ID: R08100295-011C	Sample Matrix Spike Duplicate			Run: SUB-C110446			11/05/08 19:04		
Aluminum	1.89	mg/L	0.10	95	70	130	3.6	20	
Barium	1.97	mg/L	0.10	98	70	130	0.7	20	
Boron	2.14	mg/L	0.10	103	70	130	1.7	20	
Chromium	2.00	mg/L	0.050	100	70	130	1.4	20	
Copper	2.01	mg/L	0.010	100	70	130	1.1	20	
Iron	2.12	mg/L	0.030	104	70	130	2.7	20	
Manganese	2.02	mg/L	0.010	98	70	130	0.8	20	
Molybdenum	1.98	mg/L	0.10	99	70	130	2.4	20	
Nickel	1.98	mg/L	0.050	99	70	130	0.5	20	
Silicon	5.00	mg/L	0.10		70	130	1.9	20	A
Strontium	3.15	mg/L	0.10	101	70	130	0.8	20	
Vanadium	2.11	mg/L	0.10	105	70	130	2.2	20	
Zinc	2.02	mg/L	0.010	100	70	130	1.7	20	
Calcium	155	mg/L	1.0	102	70	130	0.7	20	
Magnesium	120	mg/L	1.0	103	70	130	0.2	20	
Potassium	97.5	mg/L	1.0	89	70	130	0.9	20	
Sodium	311	mg/L	1.5	101	70	130	0.8	20	
Silica	10.7	mg/L	0.21		70	130	1.9	20	A

Qualifiers:

RL - Analyte reporting limit.

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

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_20305		
Sample ID: MB-20305	Method Blank		Run: SUB-C110072				10/30/08 00:05		
Antimony	ND	mg/L	0.0002						
Arsenic	0.003	mg/L	6E-05						
Barium	0.0002	mg/L	4E-05						
Beryllium	ND	mg/L	0.0002						
Cadmium	2E-05	mg/L	2E-05						
Chromium	0.0008	mg/L	6E-05						
Copper	0.002	mg/L	3E-05						
Lead	0.0003	mg/L	5E-05						
Manganese	0.0002	mg/L	2E-05						
Molybdenum	ND	mg/L	4E-05						
Nickel	0.0002	mg/L	3E-05						
Selenium	ND	mg/L	0.0005						
Silver	ND	mg/L	2E-05						
Strontium	0.0002	mg/L	5E-06						
Thallium	0.0007	mg/L	4E-05						
Uranium	5E-05	mg/L	5E-05						
Zinc	0.04	mg/L	0.0005						
Sample ID: LCS3-20305	Laboratory Control Sample		Run: SUB-C110072				10/30/08 00:12		
Antimony	0.580	mg/L	0.050	116	85	115			
Arsenic	0.509	mg/L	0.0010	101	85	115			
Barium	0.534	mg/L	0.10	107	85	115			
Beryllium	0.245	mg/L	0.010	98	85	115			
Cadmium	0.274	mg/L	0.010	110	85	115			
Chromium	0.516	mg/L	0.050	103	85	115			
Copper	0.529	mg/L	0.010	106	85	115			
Lead	0.560	mg/L	0.050	112	85	115			
Manganese	2.39	mg/L	0.010	96	85	115			
Molybdenum	0.495	mg/L	0.10	99	85	115			
Nickel	0.496	mg/L	0.050	99	85	115			
Selenium	0.531	mg/L	0.0010	106	85	115			
Silver	0.0513	mg/L	0.010	103	85	115			
Strontium	0.475	mg/L	0.10	95	85	115			
Thallium	0.518	mg/L	0.10	103	85	115			
Uranium	0.556	mg/L	0.00030	111	85	115			
Zinc	0.520	mg/L	0.010	96	85	115			
Sample ID: R08100295-008D	Sample Matrix Spike		Run: SUB-C110072				10/30/08 00:25		
Antimony	0.590	mg/L	0.050	118	70	130			
Arsenic	0.510	mg/L	0.0010	101	70	130			
Barium	0.554	mg/L	0.10	108	70	130			
Beryllium	0.234	mg/L	0.010	93	70	130			
Cadmium	0.268	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: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_20305		
Sample ID: R08100295-008D	Sample Matrix Spike			Run: SUB-C110072			10/30/08 00:25		
Chromium	0.518	mg/L	0.050	103	70	130			
Copper	0.517	mg/L	0.010	103	70	130			
Lead	0.566	mg/L	0.050	113	70	130			
Manganese	2.42	mg/L	0.010	95	70	130			
Molybdenum	0.519	mg/L	0.10	103	70	130			
Nickel	0.490	mg/L	0.050	98	70	130			
Selenium	0.514	mg/L	0.0010	103	70	130			
Silver	0.0509	mg/L	0.010	102	70	130			
Strontium	1.37	mg/L	0.10	108	70	130			
Thallium	0.519	mg/L	0.10	103	70	130			
Uranium	0.577	mg/L	0.00030	115	70	130			
Zinc	0.491	mg/L	0.010	97	70	130			
Sample ID: R08100295-008D	Sample Matrix Spike Duplicate			Run: SUB-C110072			10/30/08 00:59		
Antimony	0.562	mg/L	0.050	112	70	130	4.8	20	
Arsenic	0.505	mg/L	0.0010	100	70	130	1	20	
Barium	0.554	mg/L	0.10	108	70	130	0.1	20	
Beryllium	0.229	mg/L	0.010	92	70	130	1.9	20	
Cadmium	0.264	mg/L	0.010	106	70	130	1.6	20	
Chromium	0.516	mg/L	0.050	103	70	130	0.3	20	
Copper	0.510	mg/L	0.010	102	70	130	1.3	20	
Lead	0.555	mg/L	0.050	111	70	130	1.9	20	
Manganese	2.39	mg/L	0.010	94	70	130	1.3	20	
Molybdenum	0.501	mg/L	0.10	99	70	130	3.6	20	
Nickel	0.483	mg/L	0.050	97	70	130	1.4	20	
Selenium	0.507	mg/L	0.0010	101	70	130	1.3	20	
Silver	0.0503	mg/L	0.010	100	70	130	1.2	20	
Strontium	1.34	mg/L	0.10	103	70	130	1.6	20	
Thallium	0.514	mg/L	0.10	103	70	130	0.9	20	
Uranium	0.559	mg/L	0.00030	111	70	130	3.2	20	
Zinc	0.486	mg/L	0.010	96	70	130	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: 12/29/08
Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_20394
Sample ID: MB-20394	Method Blank								Run: SUB-C110508 11/06/08 14:59
Uranium	0.0003	mg/L	1E-05						
Sample ID: LCS1-20394	Laboratory Control Sample								Run: SUB-C110508 11/06/08 15:20
Uranium	0.101	mg/L	0.00030	100	80	120			
Sample ID: R08100295-013I	Post Digestion Spike								Run: SUB-C110508 11/06/08 16:35
Uranium	0.0135	mg/L	0.00030	107	70	130			
Sample ID: R08100295-013I	Post Digestion Spike Duplicate								Run: SUB-C110508 11/06/08 16:39
Uranium	0.0134	mg/L	0.00030	107	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: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R110382		
Sample ID: LRB	Method Blank		Run: SUB-C110382			11/04/08 14:15			
Aluminum	0.0006	mg/L	0.0001						
Arsenic	ND	mg/L	6E-05						
Barium	0.00010	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	5E-05	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	9E-05	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	4E-05	mg/L	3E-05						
Zinc	0.001	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C110382			11/04/08 14:22			
Aluminum	0.0474	mg/L	0.0010	94	85	115			
Arsenic	0.0494	mg/L	0.0010	99	85	115			
Barium	0.0488	mg/L	0.0010	97	85	115			
Cadmium	0.0485	mg/L	0.0010	97	85	115			
Chromium	0.0479	mg/L	0.0010	96	85	115			
Copper	0.0485	mg/L	0.0010	97	85	115			
Lead	0.0484	mg/L	0.0010	97	85	115			
Manganese	0.0481	mg/L	0.0010	96	85	115			
Mercury	0.00483	mg/L	0.0010	97	85	115			
Molybdenum	0.0479	mg/L	0.0010	96	85	115			
Nickel	0.0482	mg/L	0.0010	96	85	115			
Thorium 232	0.0484	mg/L	0.0010	97	85	115			
Uranium	0.0484	mg/L	0.00030	97	85	115			
Vanadium	0.0480	mg/L	0.0010	96	85	115			
Zinc	0.0509	mg/L	0.0010	99	85	115			
Sample ID: R08100295-005C	Post Digestion Spike		Run: SUB-C110382			11/05/08 05:59			
Aluminum	0.0497	mg/L	0.10	75	70	130			
Arsenic	0.0441	mg/L	0.0010	86	70	130			
Barium	0.0515	mg/L	0.10	85	70	130			
Cadmium	0.0405	mg/L	0.010	81	70	130			
Chromium	0.0414	mg/L	0.050	82	70	130			
Copper	0.0417	mg/L	0.010	81	70	130			
Lead	0.0420	mg/L	0.050	84	70	130			
Manganese	0.0991	mg/L	0.010	84	70	130			
Mercury	0.00431	mg/L	0.0010	86	70	130			

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R110382		
Sample ID: R08100295-005C	Post Digestion Spike			Run: SUB-C110382			11/05/08 05:59		
Molybdenum	0.0446	mg/L	0.10	88	70	130			
Nickel	0.0420	mg/L	0.050	82	70	130			
Thorium 232	0.0434	mg/L	0.0010	87	70	130			
Uranium	0.0433	mg/L	0.00030	86	70	130			
Vanadium	0.0423	mg/L	0.10	84	70	130			
Zinc	0.0460	mg/L	0.010	87	70	130			
Sample ID: R08100295-005C	Post Digestion Spike Duplicate			Run: SUB-C110382			11/05/08 06:05		
Aluminum	0.0544	mg/L	0.10	84	70	130	0	20	
Arsenic	0.0434	mg/L	0.0010	84	70	130	1.6	20	
Barium	0.0511	mg/L	0.10	84	70	130	0	20	
Cadmium	0.0406	mg/L	0.010	81	70	130	0.1	20	
Chromium	0.0417	mg/L	0.050	83	70	130	0	20	
Copper	0.0412	mg/L	0.010	81	70	130	1.2	20	
Lead	0.0421	mg/L	0.050	84	70	130	0	20	
Manganese	0.0986	mg/L	0.010	83	70	130	0.5	20	
Mercury	0.00437	mg/L	0.0010	87	70	130	1.3	20	
Molybdenum	0.0445	mg/L	0.10	88	70	130	0	20	
Nickel	0.0413	mg/L	0.050	81	70	130	0	20	
Thorium 232	0.0437	mg/L	0.0010	87	70	130	0.8	20	
Uranium	0.0437	mg/L	0.00030	87	70	130	0.9	20	
Vanadium	0.0425	mg/L	0.10	85	70	130	0	20	
Zinc	0.0456	mg/L	0.010	87	70	130	0.9	20	
Sample ID: R08100295-010C	Post Digestion Spike			Run: SUB-C110382			11/05/08 07:13		
Aluminum	0.0469	mg/L	0.10	89	70	130			
Arsenic	0.0590	mg/L	0.0010	94	70	130			
Barium	0.0550	mg/L	0.10	89	70	130			
Cadmium	0.0446	mg/L	0.010	89	70	130			
Chromium	0.0454	mg/L	0.050	90	70	130			
Copper	0.0464	mg/L	0.010	91	70	130			
Lead	0.0461	mg/L	0.050	92	70	130			
Manganese	0.113	mg/L	0.010	100	70	130			
Mercury	0.00466	mg/L	0.0010	93	70	130			
Molybdenum	0.0500	mg/L	0.10	97	70	130			
Nickel	0.0471	mg/L	0.050	91	70	130			
Thorium 232	0.0473	mg/L	0.0010	95	70	130			
Uranium	0.0495	mg/L	0.00030	95	70	130			
Vanadium	0.0462	mg/L	0.10	92	70	130			
Zinc	0.0473	mg/L	0.010	91	70	130			
Sample ID: R08100295-010C	Post Digestion Spike Duplicate			Run: SUB-C110382			11/05/08 07:20		
Aluminum	0.0478	mg/L	0.10	91	70	130	0	20	
Arsenic	0.0610	mg/L	0.0010	98	70	130	3.4	20	

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/29/08
Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R110382
Sample ID: R08100295-010C	Post Digestion Spike Duplicate					Run: SUB-C110382			11/05/08 07:20
Barium	0.0577	mg/L	0.10	95	70	130	0	20	
Cadmium	0.0457	mg/L	0.010	91	70	130	2.5	20	
Chromium	0.0466	mg/L	0.050	93	70	130	0	20	
Copper	0.0473	mg/L	0.010	93	70	130	1.9	20	
Lead	0.0477	mg/L	0.050	95	70	130	0	20	
Manganese	0.115	mg/L	0.010	103	70	130	1.4	20	
Mercury	0.00492	mg/L	0.0010	98	70	130	5.4	20	
Molybdenum	0.0512	mg/L	0.10	100	70	130	0	20	
Nickel	0.0479	mg/L	0.050	93	70	130	0	20	
Thorium 232	0.0492	mg/L	0.0010	98	70	130	3.9	20	
Uranium	0.0515	mg/L	0.00030	98	70	130	3.9	20	
Vanadium	0.0474	mg/L	0.10	95	70	130	0	20	
Zinc	0.0484	mg/L	0.010	93	70	130	2.4	20	

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8										
Batch: C_R110432										
Sample ID: LRB	Method Blank		Run: SUB-C110432				11/05/08 13:09			
Antimony	0.0002	mg/L	7E-05							
Arsenic	0.0002	mg/L	6E-05							
Beryllium	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							
Selenium	ND	mg/L	0.0002							
Silver	ND	mg/L	3E-05							
Thallium	ND	mg/L	1E-05							
Thorium 232	ND	mg/L	4E-05							
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C110432				11/05/08 13:16			
Antimony	0.0519	mg/L	0.0010	103	85	115				
Arsenic	0.0532	mg/L	0.0010	106	85	115				
Beryllium	0.0519	mg/L	0.0010	104	85	115				
Cadmium	0.0528	mg/L	0.0010	106	85	115				
Copper	0.0532	mg/L	0.0010	106	85	115				
Lead	0.0529	mg/L	0.0010	106	85	115				
Mercury	0.00543	mg/L	0.0010	109	85	115				
Selenium	0.0531	mg/L	0.0010	106	85	115				
Silver	0.0207	mg/L	0.0010	104	85	115				
Thallium	0.0526	mg/L	0.0010	105	85	115				
Thorium 232	0.0565	mg/L	0.0010	113	85	115				
Sample ID: R08100295-010C	Post Digestion Spike		Run: SUB-C110432				11/05/08 15:44			
Antimony	0.0590	mg/L	0.050	118	70	130				
Arsenic	0.0690	mg/L	0.0010	112	70	130				
Beryllium	0.0477	mg/L	0.010	95	70	130				
Cadmium	0.0515	mg/L	0.010	103	70	130				
Copper	0.0487	mg/L	0.010	95	70	130				
Lead	0.0529	mg/L	0.050	106	70	130				
Mercury	0.00542	mg/L	0.0010	108	70	130				
Selenium	0.0525	mg/L	0.0010	105	70	130				
Silver	0.0164	mg/L	0.010	82	70	130				
Thallium	0.0529	mg/L	0.10	106	70	130				
Thorium 232	0.0577	mg/L	0.0010	115	70	130				
Sample ID: R08100295-010C	Post Digestion Spike Duplicate		Run: SUB-C110432				11/05/08 15:50			
Antimony	0.0592	mg/L	0.050	118	70	130	0.5	20		
Arsenic	0.0675	mg/L	0.0010	109	70	130	2.2	20		
Beryllium	0.0481	mg/L	0.010	96	70	130	0.9	20		
Cadmium	0.0512	mg/L	0.010	102	70	130	0.5	20		
Copper	0.0481	mg/L	0.010	94	70	130	1	20		

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/29/08
Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R110432		
Sample ID: R08100295-010C	Post Digestion Spike Duplicate			Run: SUB-C110432			11/05/08 15:50		
Lead	0.0528	mg/L	0.050	106	70	130	0.1	20	
Mercury	0.00553	mg/L	0.0010	111	70	130	2	20	
Selenium	0.0513	mg/L	0.0010	103	70	130	2.3	20	
Silver	0.0159	mg/L	0.010	80	70	130	2.6	20	
Thallium	0.0530	mg/L	0.10	106	70	130	0	20	
Thorium 232	0.0576	mg/L	0.0010	115	70	130	0.2	20	
Sample ID: C08101060-002AMS4	Post Digestion Spike			Run: SUB-C110432			11/05/08 20:42		
Antimony	0.0573	mg/L	0.050	113	70	130			
Arsenic	0.0623	mg/L	0.0010	101	70	130			
Beryllium	0.0439	mg/L	0.010	88	70	130			
Cadmium	0.0459	mg/L	0.010	92	70	130			
Copper	0.0583	mg/L	0.010	93	70	130			
Lead	0.0507	mg/L	0.050	101	70	130			
Mercury	0.00518	mg/L	0.0010	104	70	130			
Selenium	0.0542	mg/L	0.0010	92	70	130			
Silver	0.0149	mg/L	0.010	75	70	130			
Thallium	0.0507	mg/L	0.10	101	70	130			
Thorium 232	0.0507	mg/L	0.0010	101	70	130			
Sample ID: C08101060-002AMSD4	Post Digestion Spike Duplicate			Run: SUB-C110432			11/05/08 20:49		
Antimony	0.0567	mg/L	0.050	112	70	130	1	20	
Arsenic	0.0638	mg/L	0.0010	104	70	130	2.3	20	
Beryllium	0.0447	mg/L	0.010	89	70	130	1.9	20	
Cadmium	0.0455	mg/L	0.010	91	70	130	0.8	20	
Copper	0.0587	mg/L	0.010	94	70	130	0.7	20	
Lead	0.0513	mg/L	0.050	102	70	130	1.2	20	
Mercury	0.00526	mg/L	0.0010	105	70	130	1.5	20	
Selenium	0.0553	mg/L	0.0010	95	70	130	2.1	20	
Silver	0.0148	mg/L	0.010	74	70	130	0.8	20	
Thallium	0.0512	mg/L	0.10	102	70	130	0	20	
Thorium 232	0.0513	mg/L	0.0010	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: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R110508		
Sample ID: LRB	Method Blank					Run: SUB-C110508			11/06/08 13:31
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank					Run: SUB-C110508			11/06/08 13:35
Uranium	0.0540	mg/L	0.00030	108	85	115			
Sample ID: R08100295-014C	Post Digestion Spike					Run: SUB-C110508			11/06/08 17:41
Uranium	0.0550	mg/L	0.00030	110	70	130			
Sample ID: R08100295-014C	Post Digestion Spike Duplicate					Run: SUB-C110508			11/06/08 18:02
Uranium	0.0550	mg/L	0.00030	110	70	130	0	20	
Sample ID: R08100295-014D	Post Digestion Spike					Run: SUB-C110508			11/06/08 18:10
Uranium	0.0571	mg/L	0.00030	114	70	130			
Sample ID: R08100295-014D	Post Digestion Spike Duplicate					Run: SUB-C110508			11/06/08 18:14
Uranium	0.0570	mg/L	0.00030	114	70	130	0.1	20	
Method: E245.1							Batch: B_35439		
Sample ID: MB-35439	Method Blank					Run: SUB-B119895			10/27/08 08:48
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-35439	Laboratory Fortified Blank					Run: SUB-B119895			10/27/08 08:50
Mercury	0.0020	mg/L	0.0010	99	85	115			
Sample ID: B08102025-010BMS	Sample Matrix Spike					Run: SUB-B119895			10/27/08 09:18
Mercury	0.0019	mg/L	0.0010	93	70	130			
Sample ID: B08102025-010BMSD	Sample Matrix Spike Duplicate					Run: SUB-B119895			10/27/08 09:20
Mercury	0.0020	mg/L	0.0010	98	70	130	5.3	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: B_35465		
Sample ID: MB-35465	Method Blank					Run: SUB-B119895			10/27/08 12:13
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-35465	Laboratory Fortified Blank					Run: SUB-B119895			10/27/08 12:15
Mercury	0.0018	mg/L	0.0010	91	85	115			
Sample ID: B08101997-001BMS	Sample Matrix Spike					Run: SUB-B119895			10/27/08 12:22
Mercury	0.0019	mg/L	0.00020	94	70	130			
Sample ID: B08101997-001BMSD	Sample Matrix Spike Duplicate					Run: SUB-B119895			10/27/08 12:24
Mercury	0.0019	mg/L	0.00020	93	70	130	0.5	30	
Sample ID: B08102034-011JMS	Sample Matrix Spike					Run: SUB-B119895			10/27/08 12:43
Mercury	0.0019	mg/L	0.0010	93	70	130			
Sample ID: B08102034-011JMSD	Sample Matrix Spike Duplicate					Run: SUB-B119895			10/27/08 12:46
Mercury	0.0019	mg/L	0.0010	94	70	130	1.1	30	
Method: E245.1							Analytical Run: SUB-B119895		
Sample ID: QCS	Initial Calibration Verification Standard								10/27/08 06:52
Mercury	0.0022	mg/L	0.0010	109	90	110			

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R38130		
Sample ID: LFB0810225958-3	Laboratory Fortified Blank			Run: DIONEX_081022A			10/22/08 18:52		
Chloride	4.76	mg/L	0.50	95	90	110			
Fluoride	1.94	mg/L	0.10	97	90	110			
Nitrogen, Nitrate as N	2.38	mg/L	0.10	95	90	110			
Nitrogen, Nitrite as N	2.50	mg/L	0.10	100	90	110			
Sulfate	14.0	mg/L	1.0	93	90	110			
Sample ID: LFB0810225958-4	Laboratory Fortified Blank			Run: DIONEX_081022A			10/22/08 19:08		
Chloride	4.87	mg/L	0.50	97	90	110			
Fluoride	1.97	mg/L	0.10	99	90	110			
Nitrogen, Nitrate as N	2.43	mg/L	0.10	97	90	110			
Nitrogen, Nitrite as N	2.55	mg/L	0.10	102	90	110			
Sulfate	14.3	mg/L	1.0	95	90	110			
Sample ID: R08100263-001BMS	Sample Matrix Spike			Run: DIONEX_081022A			10/22/08 20:14		
Chloride	5.76	mg/L	0.50	93	80	120			
Fluoride	3.12	mg/L	0.10	88	80	120			
Nitrogen, Nitrate as N	2.43	mg/L	0.10	97	80	120			
Nitrogen, Nitrite as N	2.54	mg/L	0.10	102	80	120			
Sulfate	81.9	mg/L	1.0		80	120			A
Sample ID: R08100263-001BMSD	Sample Matrix Spike Duplicate			Run: DIONEX_081022A			10/22/08 20:31		
Chloride	5.81	mg/L	0.50	94	80	120	0.9	10	
Fluoride	3.17	mg/L	0.10	90	80	120	1.6	10	
Nitrogen, Nitrate as N	2.45	mg/L	0.10	98	80	120	0.8	10	
Nitrogen, Nitrite as N	2.56	mg/L	0.10	102	80	120	0.8	10	
Sulfate	82.1	mg/L	1.0		80	120	0.3	10	A
Sample ID: R08100295-004AMS	Sample Matrix Spike			Run: DIONEX_081022A			10/22/08 22:58		
Chloride	255	mg/L	5.4	93	80	120			
Fluoride	99.5	mg/L	0.56	95	80	120			
Nitrogen, Nitrate as N	122	mg/L	1.3	98	80	120			
Nitrogen, Nitrite as N	128	mg/L	2.9	102	80	120			
Sulfate	1960	mg/L	3.4	78	80	120			S
Sample ID: R08100295-004AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_081022A			10/22/08 23:15		
Chloride	246	mg/L	5.4	89	80	120	3.5	10	
Fluoride	96.8	mg/L	0.56	92	80	120	2.7	10	
Nitrogen, Nitrate as N	118	mg/L	1.3	94	80	120	3.7	10	
Nitrogen, Nitrite as N	123	mg/L	2.9	99	80	120	3.6	10	
Sulfate	1940	mg/L	3.4	75	80	120	0.9	10	S
Sample ID: R08100295-008AMS	Sample Matrix Spike			Run: DIONEX_081022A			10/23/08 02:15		
Chloride	251	mg/L	5.4	93	80	120			
Fluoride	100	mg/L	0.56	96	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.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/29/08
Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R38130		
Sample ID: R08100295-008AMS	Sample Matrix Spike				Run: DIONEX_081022A		10/23/08 02:15		
Nitrogen, Nitrate as N	122	mg/L	1.3	97	80	120			
Nitrogen, Nitrite as N	127	mg/L	2.9	102	80	120			
Sulfate	1020	mg/L	3.4	84	80	120			
Sample ID: R08100295-008AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_081022A		10/23/08 02:32		
Chloride	242	mg/L	5.4	89	80	120	3.5	10	
Fluoride	97.4	mg/L	0.56	93	80	120	3	10	
Nitrogen, Nitrate as N	117	mg/L	1.3	94	80	120	3.4	10	
Nitrogen, Nitrite as N	123	mg/L	2.9	98	80	120	3.4	10	
Sulfate	996	mg/L	3.4	80	80	120	2.4	10	
Sample ID: R08100295-012AMS	Sample Matrix Spike				Run: DIONEX_081022A		10/23/08 05:32		
Chloride	256	mg/L	5.4	93	80	120			
Fluoride	99.9	mg/L	0.56	95	80	120			
Nitrogen, Nitrate as N	121	mg/L	1.3	97	80	120			
Nitrogen, Nitrite as N	127	mg/L	2.9	102	80	120			
Sulfate	1150	mg/L	3.4	89	80	120			
Sample ID: R08100295-012AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_081022A		10/23/08 05:49		
Chloride	248	mg/L	5.4	90	80	120	3.1	10	
Fluoride	97.2	mg/L	0.56	93	80	120	2.8	10	
Nitrogen, Nitrate as N	117	mg/L	1.3	94	80	120	2.8	10	
Nitrogen, Nitrite as N	123	mg/L	2.9	99	80	120	3	10	
Sulfate	1110	mg/L	3.4	84	80	120	3.3	10	
Sample ID: R08100303-002AMS	Sample Matrix Spike				Run: DIONEX_081022A		10/23/08 08:49		
Chloride	5.94	mg/L	0.50	93	80	120			
Fluoride	2.89	mg/L	0.10	90	80	120			
Nitrogen, Nitrate as N	3.44	mg/L	0.10	91	80	120			
Nitrogen, Nitrite as N	2.48	mg/L	0.10	99	80	120			
Sulfate	17.8	mg/L	1.0	83	80	120			
Sample ID: R08100303-002AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_081022A		10/23/08 09:06		
Chloride	6.23	mg/L	0.50	98	80	120	4.8	10	
Fluoride	2.84	mg/L	0.10	87	80	120	1.7	10	
Nitrogen, Nitrate as N	3.46	mg/L	0.10	92	80	120	0.6	10	
Nitrogen, Nitrite as N	2.48	mg/L	0.10	99	80	120	0	10	
Sulfate	18.1	mg/L	1.0	85	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: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0561		
Sample ID: MB-GrAB-0561	Method Blank					Run: SUB-C111388			11/22/08 01:24
Gross Alpha	0.2	pCi/L							U
Gross Beta	-3	pCi/L							U
Sample ID: UNAT-GrAB-0561	Laboratory Control Sample					Run: SUB-C111388			11/22/08 01:24
Gross Alpha	140	pCi/L		102	70	130			
Sample ID: C08101085-003CMS	Sample Matrix Spike					Run: SUB-C111388			11/24/08 07:45
Gross Alpha	110	pCi/L		75	70	130			
Sample ID: C08101085-003CMSD	Sample Matrix Spike Duplicate					Run: SUB-C111388			11/24/08 07:45
Gross Alpha	99	pCi/L		67	70	130	9.8	19.6	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: Cs137-GrAB-0561	Laboratory Control Sample					Run: SUB-C111388			11/22/08 01:24
Gross Beta	94	pCi/L		104	70	130			
Sample ID: R08100295-002H	Sample Duplicate					Run: SUB-C111388			11/22/08 01:24
Gross Alpha	4100	pCi/L					9.2	13.1	
Gross Beta	1200	pCi/L					5.4	12.8	
Sample ID: C08101085-003CMS	Sample Matrix Spike					Run: SUB-C111388			11/24/08 07:45
Gross Beta	77	pCi/L		80	70	130			
Sample ID: C08101085-003CMSD	Sample Matrix Spike Duplicate					Run: SUB-C111388			11/24/08 07:45
Gross Beta	76	pCi/L		79	70	130	0.9	17.2	
Method: E901.1							Batch: C_R109907		
Sample ID: R08100295-012H	Sample Duplicate					Run: SUB-C109907			10/27/08 11:00
Bismuth 214	81	pCi/L	20				50	30	R
Lead 214	64	pCi/L	20				19	30	
Potassium 40	870	pCi/L	20				5.6	30	
Gross Gamma	1000	pCi/L	20				11	30	
- Bismuth Duplicate is outside of the acceptance range for this analysis.									
Sample ID: MB-R109907	Method Blank					Run: SUB-C109907			10/27/08 11:00
Bismuth 214	ND	pCi/L							U
Gross Gamma	ND	pCi/L							U
Sample ID: LCS-R109907	Laboratory Control Sample					Run: SUB-C109907			10/27/08 11:00
Cesium 137	39000	pCi/L	20	104	70	130			
Cobalt 60	34000	pCi/L	20	99	70	130			
Potassium 40	6400	pCi/L	20	96	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: 12/29/08
Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_20394		
Sample ID: R08100295-0071 Radium 226	Sample Duplicate -0.66 pCi/L				Run: SUB-C110763 70 130		24	135.8	U
Sample ID: R08100295-0091 Radium 226	Sample Matrix Spike 24 pCi/L			120	Run: SUB-C110763 70 130				11/11/08 13:02
Sample ID: LCS-20394 Radium 226	Laboratory Control Sample 17.5 pCi/Filter			124	Run: SUB-C110763 70 130				11/11/08 14:35
Sample ID: MB-20394 Radium 226	Method Blank -2 pCi/Filter				Run: SUB-C110763				11/11/08 14:35 U
Method: E903.0							Batch: C_RA226-3216		
Sample ID: C08101041-001EMS Radium 226	Sample Matrix Spike 15 pCi/L			80	Run: SUB-C110691 70 130				11/11/08 02:30
Sample ID: C08101041-001EMSD Radium 226	Sample Matrix Spike Duplicate 15 pCi/L			84	Run: SUB-C110691 70 130		3.3	24.9	11/11/08 02:30
Sample ID: MB-RA226-3216 Radium 226	Method Blank -0.02 pCi/L				Run: SUB-C110691				11/11/08 04:06 U
Sample ID: LCS-RA226-3216 Radium 226	Laboratory Control Sample 6.4 pCi/L			81	Run: SUB-C110691 70 130				11/11/08 04:06
Method: E907.0							Batch: C_20394		
Sample ID: C08101024-001AMS Thorium 230	Sample Matrix Spike 49.8 pCi/Filter		0.20	102	Run: SUB-C111453 70 130				11/07/08 14:30
Sample ID: C08101024-001AMSD Thorium 230	Sample Matrix Spike Duplicate 39.5 pCi/Filter		0.20	80	Run: SUB-C111453 70 130		23	30	11/07/08 14:30
Sample ID: LCS-20394 Thorium 230	Laboratory Control Sample 27.2 pCi/L		0.20	112	Run: SUB-C111453 70 130				11/07/08 14:30
Sample ID: MB-20394 Thorium 230	Method Blank 0.2 pCi/L				Run: SUB-C111453				11/07/08 14:30 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: 12/29/08
Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0683		
Sample ID: LCS-RA-TH-ISO-0683	Laboratory Control Sample					Run: SUB-C111494			11/20/08 08:50
Thorium 230	4.25	pCi/L	0.20	70	70	130			
Sample ID: R08100295-014H	Sample Matrix Spike					Run: SUB-C111494			11/20/08 13:36
Thorium 230	17.8	pCi/L	0.20	74	70	130			
Sample ID: R08100295-014H	Sample Matrix Spike Duplicate					Run: SUB-C111494			11/20/08 13:36
Thorium 230	21.5	pCi/L	0.20	89	70	130	19	40	
Sample ID: MB-RA-TH-ISO-0683	Method Blank					Run: SUB-C111494			11/20/08 13:36
Thorium 230	0.1	pCi/L							U
Method: E909.0M							Batch: C_20394		
Sample ID: C08101067-001FMS	Sample Matrix Spike					Run: SUB-C111413			11/11/08 10:15
Lead 210	1100	pCi/L		93	70	130			
Sample ID: C08101067-001FMSD	Sample Matrix Spike Duplicate					Run: SUB-C111413			11/11/08 10:15
Lead 210	1000	pCi/L		89	70	130	4.8	30	
Sample ID: MB-R111413	Method Blank					Run: SUB-C111413			11/11/08 10:15
Lead 210	-3	pCi/L							U
Sample ID: LCS-R111413	Laboratory Control Sample					Run: SUB-C111413			11/11/08 10:15
Lead 210	110	pCi/L		97	70	130			
Method: E909.0M							Batch: C_R111073		
Sample ID: R08100295-006H	Sample Matrix Spike					Run: SUB-C111073			11/06/08 09:13
Lead 210	150	pCi/L		128	70	130			
Sample ID: C08101336-001FDUP	Sample Duplicate					Run: SUB-C111073			11/06/08 09:13
Lead 210	-0.40	pCi/L					130	30	UR
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R111073	Method Blank					Run: SUB-C111073			11/06/08 09:13
Lead 210	-2	pCi/L							U
Sample ID: LCS-R111073	Laboratory Control Sample					Run: SUB-C111073			11/06/08 09:13
Lead 210	65	pCi/L		115	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

Report Date: 12/29/08

Project: Edgemont

Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_20394		
Sample ID: C08101067-001FMS	Sample Matrix Spike				Run: SUB-C111251				11/13/08 15:31
Polonium 210	37	pCi/L	1.0	84	70	130			
Sample ID: C08101067-001FMSD	Sample Matrix Spike Duplicate				Run: SUB-C111251				11/13/08 15:31
Polonium 210	39	pCi/L	1.0	90	70	130	5.3	53	
Sample ID: LCS-20394	Laboratory Control Sample				Run: SUB-C111251				11/13/08 15:31
Polonium 210	80	pCi/L	1.0	94	70	130			
Sample ID: MB-20394	Method Blank				Run: SUB-C111251				11/13/08 15:31
Polonium 210	0.1	pCi/L							U
Method: RMO-3008							Batch: C_PO210-0158		
Sample ID: R08100295-014K	Sample Matrix Spike				Run: SUB-C111313				11/19/08 09:23
Polonium 210	44	pCi/L	1.0	101	70	130			
Sample ID: R08100295-014K	Sample Matrix Spike Duplicate				Run: SUB-C111313				11/19/08 12:25
Polonium 210	37	pCi/L	1.0	86	70	130	16	57	
Sample ID: LCS-PO210-0158	Laboratory Control Sample				Run: SUB-C111313				11/19/08 12:25
Polonium 210	19	pCi/L	1.0	109	70	130			
Sample ID: MB-PO210-0158	Method Blank				Run: SUB-C111313				11/13/08 17:55
Polonium 210	-0.07	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

PLEASE PRINT - Provide as much information as possible.

Company Name: Scott Env.		Project Name, PWS, Permit, Etc. Power Tech DB		Sample Origin State:	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: ReSpec		Contact Name: Allen Scott		Email:	Sampler: (Please Print) Allen Scott
Invoice Address: ReSpec		Invoice Contact & Phone: 605-673-4529		Purchase Order:	Quota/Bottle Order:
Special Report/Formats - EI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> GSA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> Format: <input type="checkbox"/> State: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: <input type="checkbox"/> NELAC			Number of Containers Sample Type: AWSVBO Air Water Soils/Solids Vegetation Bioassay Other		
ANALYSIS REQUESTED			SEE ATTACHED		
Normal Turnaround (TAT)			R U S H		
Comments:			Contact EI prior to RUSH sample submittal for charges and scheduling - See Instruction Page		
Request Temp: On Ice: <input type="checkbox"/> Yes <input type="checkbox"/> No			4.2°C		
Custody Seal: Y N Intact: Y N Signature Match: Y N			RO 8100295-011		
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	MATRIX	
1 DBGW 697		10-24-08	9:45	Water	
2 DBGW 695		10-24-08	9:10	"	
3 DBGW 694		10-24-08	8:25	"	
4 DBGW 696		10-24-08	8:45	"	
5					
6					
7					
8					
9					
10					
Retrieved by (print): Allen Scott		Date/Time: 10-23-08 10:24		Signature: [Signature]	
Retrieved by (print): Linda Larson		Date/Time: 10/23/08 10:25		Signature: [Signature]	

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



ANALYTICAL SUMMARY REPORT

January 29, 2009

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

Workorder No.: R08110211 Quote ID: R286
Project Name: Edgemont

Energy Laboratories Inc. received the following 14 samples for RESPEC Inc on 11/19/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08110211-001	DewBurd BLK01	11/18/08 8:45	11/19/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved



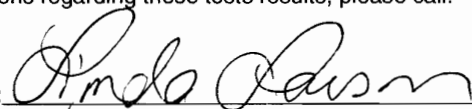
ANALYTICAL SUMMARY REPORT

R08110211-002	DewBurd GW696	11/18/08 8:45	11/19/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08110211-003	DewBurd GW694	11/18/08 9:00	11/19/08	Aqueous	Same As Above
R08110211-004	DewBurd GW688	11/18/08 10:00	11/19/08	Aqueous	Same As Above
R08110211-005	DewBurd GW680	11/18/08 10:25	11/19/08	Aqueous	Same As Above
R08110211-006	DewBurd GW694	11/18/08 9:05	11/19/08	Aqueous	Same As Above
R08110211-007	DewBurd GW3026	11/18/08 11:19	11/19/08	Aqueous	Same As Above
R08110211-008	DewBurd GW698	11/18/08 12:00	11/19/08	Aqueous	Same As Above
R08110211-009	DewBurd GW695	11/18/08 13:25	11/19/08	Aqueous	Same As Above
R08110211-010	DewBurd GW697	11/18/08 13:35	11/19/08	Aqueous	Same As Above
R08110211-011	DewBurd GW689	11/18/08 14:02	11/19/08	Aqueous	Same As Above
R08110211-012	DewBurd GW681	11/18/08 13:55	11/19/08	Aqueous	Same As Above
R08110211-013	DewBurd GW615	11/18/08 15:00	11/19/08	Aqueous	Same As Above
R08110211-014	DewBurd GW622	11/18/08 14:30	11/19/08	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