



UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION
ATOMIC SAFETY AND LICENSING BOARD

In the Matter of

CROW BUTTE RESOURCES, INC.

(Marsland Expansion Area)

Docket No. 40-8943-MLA-2

ASLBP No. 13-926-01-MLA-BD01

Hearing Exhibit


Exhibit Number:

Exhibit Title:



Test Report

Client: PTS Laboratories, Inc. MI#: 11182
PTS File # 41269; Marsland Core Project Sample Type: Sediment samples
PO# 11-133 Date: 06.06.11

Contact	Rachel Spitz
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E-mail	rspitz@ptsgeolabs.com
Phone	562-347-2500
PO #	11-133
Test Methods	XRD (Bulk & Clay Fraction analysis) (n=8)
Project ID	PTS File # 41269
	Marsland Core Project
Calibration Date	06.06.11
MI Lab Supervisor	
	Timothy B. Murphy

CONDITIONS AND QUALIFICATIONS

Mineralogy, Inc. will endeavor to provide accurate and reliable laboratory measurements of the samples provided by the client. The results of any x-ray diffraction, petrographic or core analysis test are necessarily influenced by the condition and selection of the samples to be analyzed. It should be recognized that geological samples are commonly heterogeneous and lack uniform properties. Mineralogical, geochemical and/or petrographic data obtained for a specific sample provides compositional data pertinent to that specific sampling location. Such "site-specific data" may fail to provide adequate characterization of the range of compositional variability possible within a given project area, thus the "projection" of these laboratory findings and values to adjoining, "untested" areas of the formation or project area is inherently risky, and exceeds the scope of the laboratory work request. Hence, Mineralogy, Inc. shall not assume any liability risk or responsibility for any loss or potential failure associated with the application of "site or sample-specific laboratory data" to "untested" areas of the formation or project area. Unless otherwise directed, the samples selected for analysis will be chosen to reflect a visually representative portion of the bulk sample submitted for analysis. Where provided, the interpretation of x-ray diffraction, petrographic or core analysis results constitutes the best geological judgment of Mineralogy, Inc., and is subject to the sampling limitations described above, and the detection limits inherent to semi-quantitative and/or qualitative mineralogical and microscopic analysis. Mineralogy, Inc. assumes no responsibility nor offers any guarantee of the productivity, suitability or performance of any oil or gas well, hydrocarbon recovery process, dimension stone, and/or ore material based upon the data or conclusions presented in this report.



MINERALOGY, INC.

TABLE I
X-RAY DIFFRACTION ANALYSIS

Client: PTS Laboratories, Inc. MI#: 11182
PTS File # 41269; Marsland Core Project Sample Type: Sediment samples
PO# 11-133 Date: 06.06.11

X-Ray Diffraction Results

Mineral Constituents	Sample ID	M1454c				M1624c			
		Run 1	Run 2	Run 3	Run 4	Run 1	Run 2	Run 4	Run 5
	Lab ID	11182-01	11182-02	11182-03	11182-04	11182-05	11182-06	11182-07	11182-08
Chemical Formula		Relative Abundance (%)							
Quartz	SiO ₂	15	11	63	29	15	14	54	23
Plagioclase Feldspar	(Na,Ca)AlSi ₃ O ₈	9	8	4	5	11	10	4	5
K-Feldspar	KAlSi ₃ O ₈	2	2	8	5	5	3	8	4
Calcite	CaCO ₃	47	35	trc		13	1	1	
Dolomite	(Ca,Mg)(CO ₃) ₂				3			2	
Siderite	FeCO ₃			1					
Pyrite	FeS ₂			1					1
Magnetite	alpha-Fe ₃ O ₄		1	trc		2			
Magnesium Vanadium Oxide	beta-Mg(VO ₃)			2					
Kaolinite	Al ₂ Si ₂ O ₅ (OH) ₄			1	2			trc	2
Chlorite	(Fe,Al,Mg) ₃ (Si,Al) ₄ O ₁₀ (OH) ₂				2		trc		2
Illite/Mica	KAl ₂ (Si ₃ AlO ₁₀)(OH) ₂	2	5	2	6	5	12	3	8
Mixed-Layered Illite/Smectite	K _{0.5} Al ₂ (Si ₃ Al) ₄ O ₁₀ (OH) ₂ · 2H ₂ O		38	18	48	49	60	28	55
Montmorillonite	Na _{0.3} (Al,Mg) ₂ Si ₄ O ₁₀ (OH) ₂ · xH ₂ O	25							
TOTAL		100	100	100	100	100	100	100	100
% Illite Layers in ML Illite/Smectite	(+/- 5%)		45%	10%	25%	10%	25%	15%	20%

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

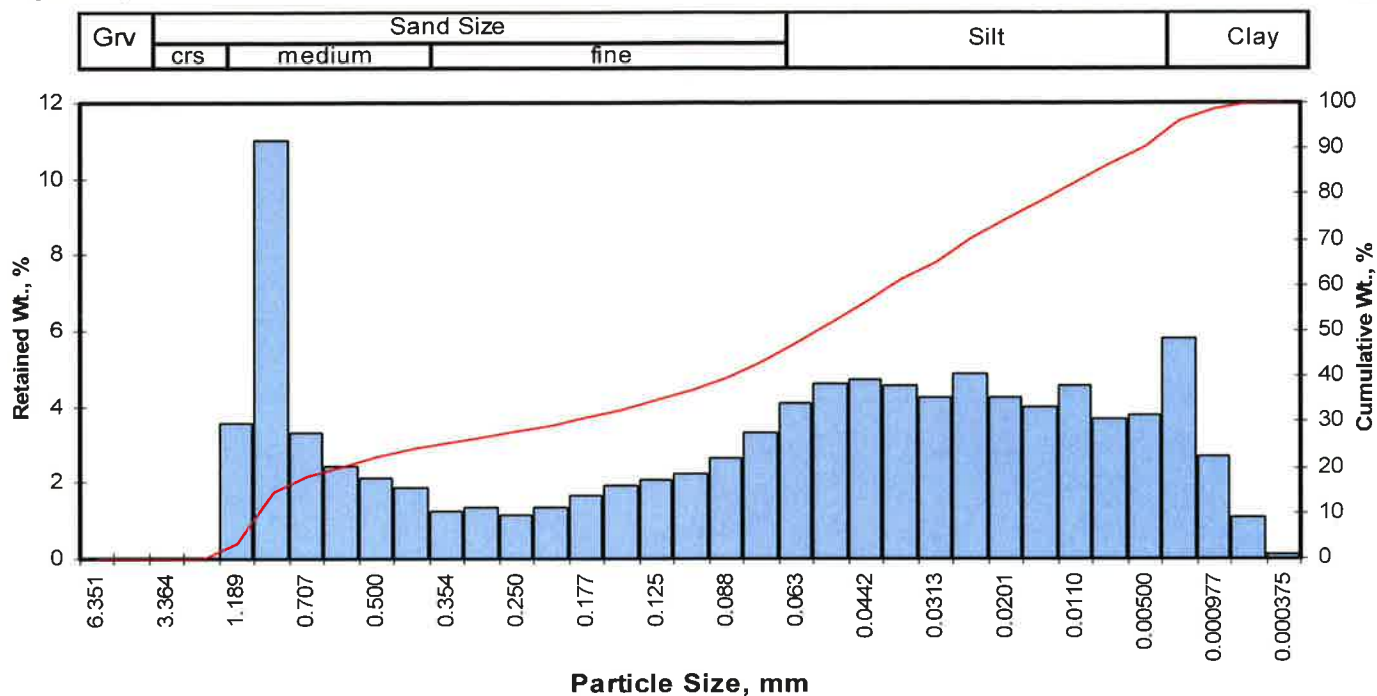
PROJECT NAME: Marsland Core
PROJECT NO: N/A

Sample ID	Depth, ft.	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
			Gravel	Sand Size			Silt	Clay	
				Coarse	Medium	Fine			
M-1454c Run 1	N/A	0.056	0.00	0.00	24.31	18.80	47.25	9.64	56.89
M-1454c Run 2	N/A	0.027	0.00	0.00	8.58	24.41	46.36	20.65	67.01
M-1454c Run 3	N/A	0.075	0.00	0.00	2.74	47.49	29.85	19.92	49.77
M-1454c Run 4	N/A	0.007	0.00	0.00	0.00	0.45	60.15	39.40	99.55
M-1624c Run 1	N/A	0.049	0.00	0.00	7.50	29.12	54.65	8.73	63.38
M-1624c Run 2	N/A	0.065	0.00	0.00	26.37	22.12	34.96	16.54	51.50
M-1624c Run 4	N/A	0.711	0.00	0.00	69.05	14.89	11.56	4.50	16.06
M-1624c Run 5	N/A	0.005	0.00	0.00	0.00	1.28	50.88	47.85	98.72

(1) Based on Mean from Trask

Client: Crow Butte Resources, Inc.
Project: Marsland Core
Project No: N/A

PTS File No: 41269
Sample ID: M-1454c Run 1
Depth, ft: N/A



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	3.58	3.58	3.58
0.0331	0.841	0.25	20	11.00	11.00	14.59
0.0278	0.707	0.50	25	3.31	3.31	17.90
0.0234	0.595	0.75	30	2.42	2.42	20.32
0.0197	0.500	1.00	35	2.14	2.14	22.46
0.0166	0.420	1.25	40	1.85	1.85	24.31
0.0139	0.354	1.50	45	1.22	1.22	25.53
0.0117	0.297	1.75	50	1.34	1.34	26.87
0.0098	0.250	2.00	60	1.13	1.13	28.00
0.0083	0.210	2.25	70	1.36	1.36	29.36
0.0070	0.177	2.50	80	1.63	1.63	30.99
0.0059	0.149	2.75	100	1.89	1.89	32.88
0.0049	0.125	3.00	120	2.06	2.06	34.94
0.0041	0.105	3.25	140	2.23	2.23	37.17
0.0035	0.088	3.50	170	2.62	2.62	39.80
0.0029	0.074	3.75	200	3.31	3.31	43.11
0.0025	0.063	4.00	230	4.09	4.09	47.20
0.0021	0.053	4.25	270	4.59	4.59	51.79
0.00174	0.0442	4.50	325	4.73	4.73	56.52
0.00146	0.0372	4.75	400	4.54	4.54	61.06
0.00123	0.0313	5.00	450	4.23	4.23	65.30
0.000986	0.0250	5.32	500	4.87	4.87	70.17
0.000790	0.0201	5.64	635	4.23	4.23	74.40
0.000615	0.0156	6.00		3.98	3.98	78.38
0.000435	0.0110	6.50		4.53	4.53	82.91
0.000308	0.00781	7.00		3.67	3.67	86.58
0.000197	0.00500	7.65		3.77	3.77	90.36
0.000077	0.00195	9.00		5.78	5.78	96.14
0.000038	0.000977	10.00		2.69	2.69	98.83
0.000019	0.000488	11.00		1.08	1.08	99.91
0.000015	0.000375	11.38		0.09	0.09	100.00
TOTALS				100.00	100.00	100.00

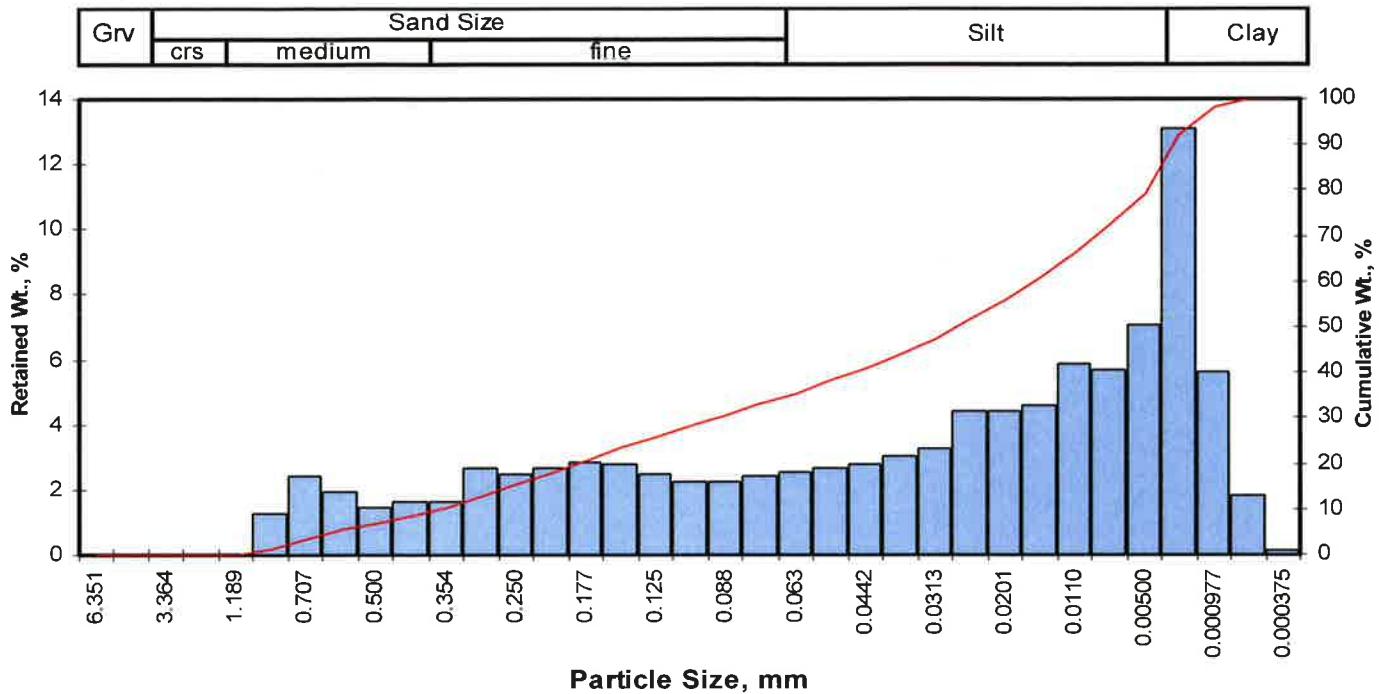
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.19	0.0448	1.137
10	0.04	0.0383	0.972
16	0.36	0.0307	0.781
25	1.39	0.0150	0.381
40	3.52	0.0034	0.087
50	4.15	0.0022	0.056
60	4.69	0.0015	0.039
75	5.69	0.0008	0.019
84	6.65	0.0004	0.010
90	7.58	0.0002	0.005
95	8.73	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	4.15	4.15	4.15
Median, in.	0.0022	0.0022	0.0022
Median, mm	0.056	0.056	0.056
Mean, phi	2.32	3.50	3.72
Mean, in.	0.0079	0.0035	0.0030
Mean, mm	0.200	0.088	0.076
Sorting	4.443	3.146	2.924
Skewness	1.526	-0.207	-0.090
Kurtosis	0.187	0.418	0.849
Grain Size Description (ASTM-USCS Scale)		Fine sand (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	24.31
Fine Sand	200	18.80
Silt	>0.005 mm	47.25
Clay	<0.005 mm	9.64
Total		100

Client: Crow Butte Resources, Inc.
Project: Marsland Core
Project No: N/A

PTS File No: 41269
Sample ID: M-1454c Run 2
Depth, ft: N/A



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	1.24	1.24	1.24
0.0278	0.707	0.50	25	2.40	2.40	3.64
0.0234	0.595	0.75	30	1.92	1.92	5.56
0.0197	0.500	1.00	35	1.42	1.42	6.98
0.0166	0.420	1.25	40	1.60	1.60	8.58
0.0139	0.354	1.50	45	1.64	1.64	10.22
0.0117	0.297	1.75	50	2.63	2.63	12.85
0.0098	0.250	2.00	60	2.46	2.46	15.31
0.0083	0.210	2.25	70	2.67	2.67	17.98
0.0070	0.177	2.50	80	2.82	2.82	20.80
0.0059	0.149	2.75	100	2.77	2.77	23.57
0.0049	0.125	3.00	120	2.49	2.49	26.06
0.0041	0.105	3.25	140	2.26	2.26	28.32
0.0035	0.088	3.50	170	2.26	2.26	30.58
0.0029	0.074	3.75	200	2.41	2.41	32.99
0.0025	0.063	4.00	230	2.55	2.55	35.54
0.0021	0.053	4.25	270	2.63	2.63	38.17
0.00174	0.0442	4.50	325	2.80	2.80	40.97
0.00146	0.0372	4.75	400	3.04	3.04	44.01
0.00123	0.0313	5.00	450	3.28	3.28	47.29
0.000986	0.0250	5.32	500	4.40	4.40	51.69
0.000790	0.0201	5.64	635	4.43	4.43	56.12
0.000615	0.0156	6.00		4.61	4.61	60.73
0.000435	0.0110	6.50		5.86	5.86	66.59
0.000308	0.00781	7.00		5.69	5.69	72.28
0.000197	0.00500	7.65		7.07	7.07	79.35
0.000077	0.00195	9.00		13.10	13.10	92.45
0.000038	0.000977	10.00		5.63	5.63	98.08
0.000019	0.000488	11.00		1.79	1.79	99.87
0.000015	0.000375	11.38		0.13	0.13	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.68	0.0246	0.625
10	1.47	0.0142	0.362
16	2.06	0.0094	0.239
25	2.89	0.0053	0.135
40	4.41	0.0018	0.047
50	5.20	0.0011	0.027
60	5.94	0.0006	0.016
75	7.25	0.0003	0.007
84	8.13	0.0001	0.004
90	8.75	0.0001	0.002
95	9.45	0.0001	0.001

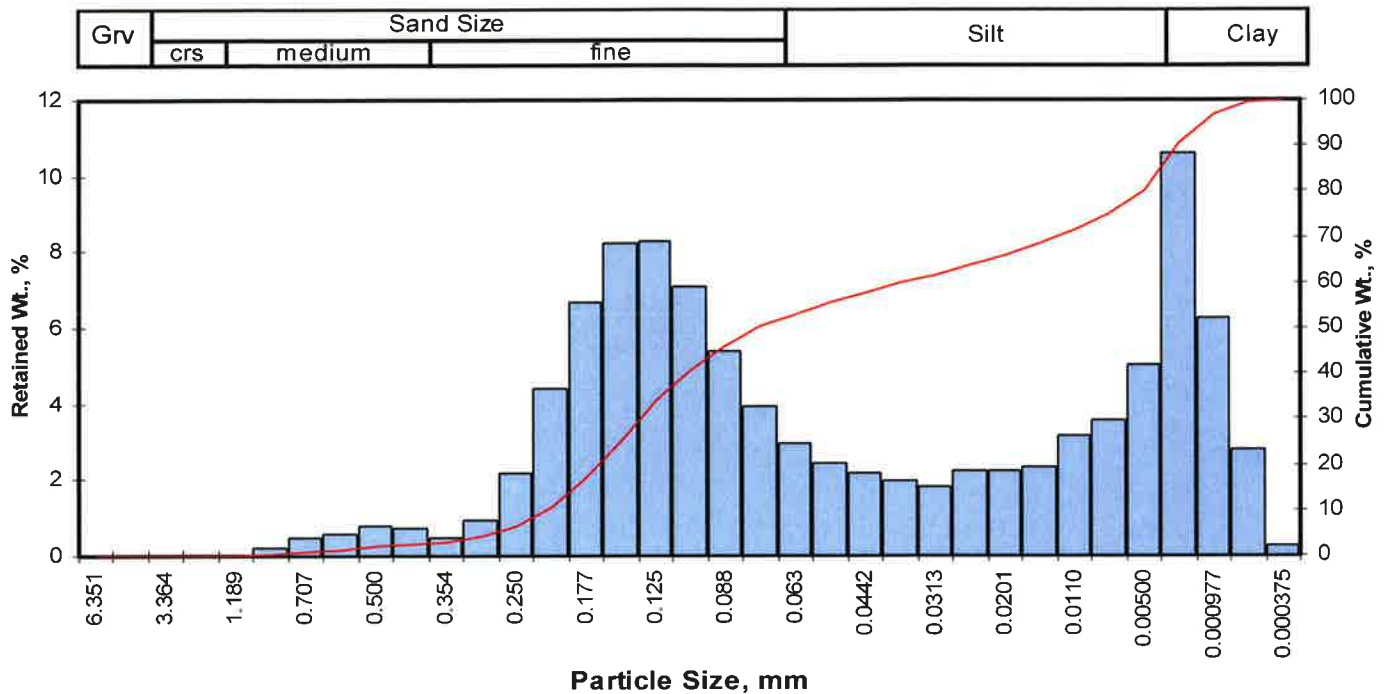
Measure	Trask	Inman	Folk-Ward
Median, phi	5.20	5.20	5.20
Median, in.	0.0011	0.0011	0.0011
Median, mm	0.027	0.027	0.027
Mean, phi	3.82	5.10	5.13
Mean, in.	0.0028	0.0012	0.0011
Mean, mm	0.071	0.029	0.029
Sorting	4.523	3.031	2.845
Skewness	1.091	-0.034	-0.032
Kurtosis	0.178	0.448	0.826

Grain Size Description	Silt
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	8.58
Fine Sand	200	24.41
Silt	>0.005 mm	46.36
Clay	<0.005 mm	20.65
Total		100

Client: Crow Butte Resources, Inc.
Project: Marsland Core
Project No: N/A

PTS File No: 41269
Sample ID: M-1454c Run 3
Depth, ft: N/A



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.23	0.23	0.23
0.0278	0.707	0.50	25	0.47	0.47	0.70
0.0234	0.595	0.75	30	0.59	0.59	1.29
0.0197	0.500	1.00	35	0.75	0.75	2.04
0.0166	0.420	1.25	40	0.70	0.70	2.74
0.0139	0.354	1.50	45	0.45	0.45	3.19
0.0117	0.297	1.75	50	0.94	0.94	4.13
0.0098	0.250	2.00	60	2.16	2.16	6.29
0.0083	0.210	2.25	70	4.38	4.38	10.67
0.0070	0.177	2.50	80	6.68	6.68	17.35
0.0059	0.149	2.75	100	8.23	8.23	25.59
0.0049	0.125	3.00	120	8.27	8.27	33.86
0.0041	0.105	3.25	140	7.07	7.07	40.93
0.0035	0.088	3.50	170	5.38	5.38	46.31
0.0029	0.074	3.75	200	3.92	3.92	50.23
0.0025	0.063	4.00	230	2.97	2.97	53.20
0.0021	0.053	4.25	270	2.45	2.45	55.65
0.00174	0.0442	4.50	325	2.16	2.16	57.81
0.00146	0.0372	4.75	400	1.94	1.94	59.75
0.00123	0.0313	5.00	450	1.81	1.81	61.56
0.000986	0.0250	5.32	500	2.24	2.24	63.80
0.000790	0.0201	5.64	635	2.21	2.21	66.01
0.000615	0.0156	6.00		2.32	2.32	68.33
0.000435	0.0110	6.50		3.13	3.13	71.46
0.000308	0.00781	7.00		3.58	3.58	75.05
0.000197	0.00500	7.65		5.03	5.03	80.08
0.000077	0.00195	9.00		10.60	10.60	90.68
0.000038	0.000977	10.00		6.28	6.28	96.96
0.000019	0.000488	11.00		2.80	2.80	99.76
0.000015	0.000375	11.38		0.24	0.24	100.00
TOTALS				100.00	100.00	100.00

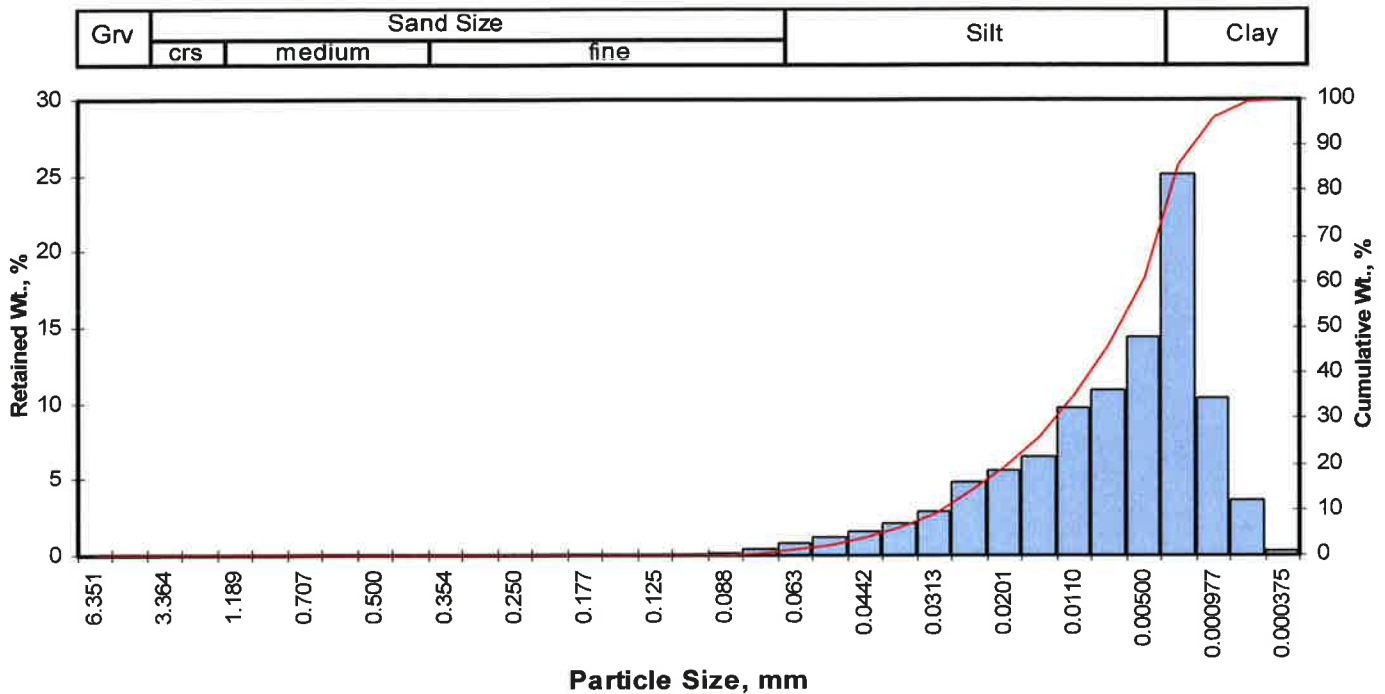
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.85	0.0109	0.277
10	2.21	0.0085	0.216
16	2.45	0.0072	0.183
25	2.73	0.0059	0.150
40	3.22	0.0042	0.108
50	3.74	0.0030	0.075
60	4.78	0.0014	0.036
75	6.99	0.0003	0.008
84	8.15	0.0001	0.004
90	8.91	0.0001	0.002
95	9.69	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	3.74	3.74	3.74
Median, in.	0.0030	0.0030	0.0030
Median, mm	0.075	0.075	0.075
Mean, phi	3.66	5.30	4.78
Mean, in.	0.0031	0.0010	0.0014
Mean, mm	0.079	0.025	0.036
Sorting	4.379	2.849	2.612
Skewness	0.458	0.549	0.534
Kurtosis	0.334	0.376	0.754
Grain Size Description		Fine sand	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	2.74
Fine Sand	200	47.49
Silt	>0.005 mm	29.85
Clay	<0.005 mm	19.92
Total		100

Client: Crow Butte Resources, Inc.
Project: Marsland Core
Project No: N/A

PTS File No: 41269
Sample ID: M-1454c Run 4
Depth, ft: N/A



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.00	0.00	0.00
0.0059	0.149	2.75	100	0.00	0.00	0.00
0.0049	0.125	3.00	120	0.00	0.00	0.00
0.0041	0.105	3.25	140	0.00	0.00	0.00
0.0035	0.088	3.50	170	0.08	0.08	0.09
0.0029	0.074	3.75	200	0.36	0.36	0.45
0.0025	0.063	4.00	230	0.77	0.77	1.22
0.0021	0.053	4.25	270	1.14	1.14	2.36
0.00174	0.0442	4.50	325	1.55	1.55	3.91
0.00146	0.0372	4.75	400	2.10	2.10	6.01
0.00123	0.0313	5.00	450	2.87	2.87	8.88
0.000986	0.0250	5.32	500	4.78	4.78	13.66
0.000790	0.0201	5.64	635	5.62	5.62	19.28
0.000615	0.0156	6.00		6.45	6.45	25.73
0.000435	0.0110	6.50		9.67	9.67	35.40
0.000308	0.00781	7.00		10.90	10.90	46.30
0.000197	0.00500	7.65		14.30	14.30	60.60
0.000077	0.00195	9.00		25.10	25.10	85.70
0.000038	0.000977	10.00		10.40	10.40	96.10
0.000019	0.000488	11.00		3.62	3.62	99.72
0.000015	0.000375	11.38		0.28	0.28	100.00
TOTALS				100.00	100.00	100.00

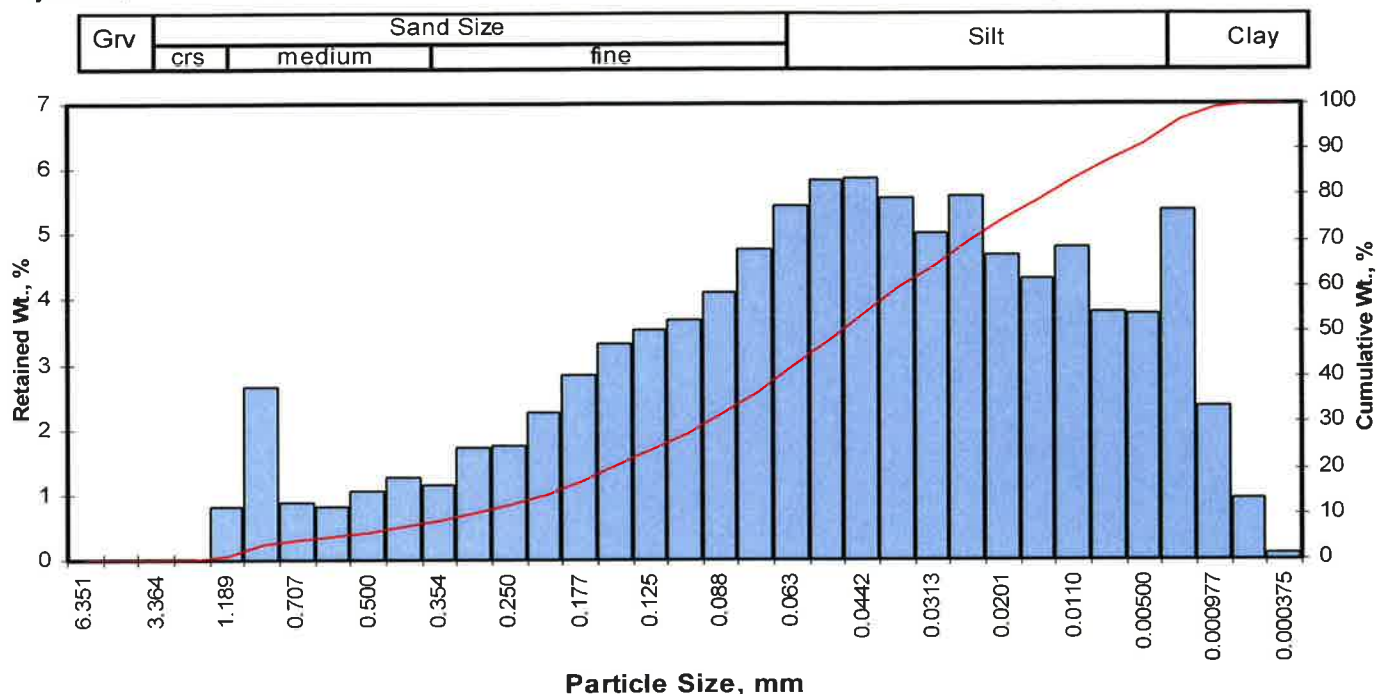
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	4.63	0.0016	0.040
10	5.08	0.0012	0.030
16	5.45	0.0009	0.023
25	5.96	0.0006	0.016
40	6.71	0.0004	0.010
50	7.17	0.0003	0.007
60	7.62	0.0002	0.005
75	8.42	0.0001	0.003
84	8.91	0.0001	0.002
90	9.41	0.0001	0.001
95	9.89	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	7.17	7.17	7.17
Median, in.	0.0003	0.0003	0.0003
Median, mm	0.007	0.007	0.007
Mean, phi	6.72	7.18	7.18
Mean, in.	0.0004	0.0003	0.0003
Mean, mm	0.009	0.007	0.007
Sorting	2.348	1.727	1.661
Skewness	0.984	0.008	0.022
Kurtosis	0.233	0.524	0.876
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	0.45
Silt	>0.005 mm	60.15
Clay	<0.005 mm	39.40
Total		100

Client: Crow Butte Resources, Inc.
Project: Marsland Core
Project No: N/A

PTS File No: 41269
Sample ID: M-1624c Run 1
Depth, ft: N/A



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.81	0.81	0.81
0.0331	0.841	0.25	20	2.66	2.66	3.47
0.0278	0.707	0.50	25	0.89	0.89	4.36
0.0234	0.595	0.75	30	0.81	0.81	5.17
0.0197	0.500	1.00	35	1.05	1.05	6.22
0.0166	0.420	1.25	40	1.28	1.28	7.50
0.0139	0.354	1.50	45	1.16	1.16	8.66
0.0117	0.297	1.75	50	1.72	1.72	10.38
0.0098	0.250	2.00	60	1.76	1.76	12.14
0.0083	0.210	2.25	70	2.25	2.25	14.39
0.0070	0.177	2.50	80	2.84	2.84	17.23
0.0059	0.149	2.75	100	3.32	3.32	20.54
0.0049	0.125	3.00	120	3.52	3.52	24.06
0.0041	0.105	3.25	140	3.69	3.69	27.75
0.0035	0.088	3.50	170	4.10	4.10	31.85
0.0029	0.074	3.75	200	4.77	4.77	36.62
0.0025	0.063	4.00	230	5.44	5.44	42.06
0.0021	0.053	4.25	270	5.83	5.83	47.89
0.00174	0.0442	4.50	325	5.87	5.87	53.75
0.00146	0.0372	4.75	400	5.54	5.54	59.29
0.00123	0.0313	5.00	450	5.02	5.02	64.31
0.000986	0.0250	5.32	500	5.58	5.58	69.89
0.000790	0.0201	5.64	635	4.69	4.69	74.58
0.000615	0.0156	6.00		4.33	4.33	78.91
0.000435	0.0110	6.50		4.81	4.81	83.72
0.000308	0.00781	7.00		3.79	3.79	87.50
0.000197	0.00500	7.65		3.77	3.77	91.27
0.000077	0.00195	9.00		5.38	5.38	96.65
0.000038	0.000977	10.00		2.34	2.34	98.99
0.000019	0.000488	11.00		0.93	0.93	99.92
0.000015	0.000375	11.38		0.08	0.08	100.00
TOTALS				100.00	100.00	100.00

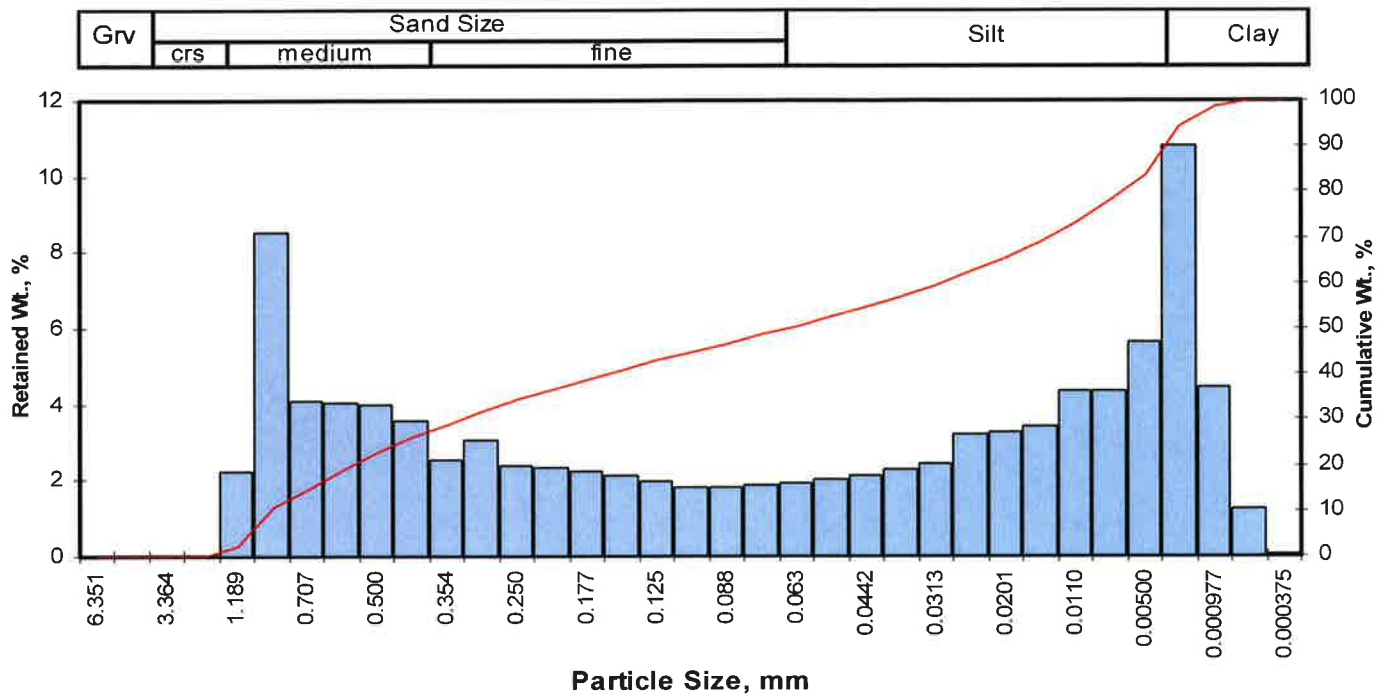
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.70	0.0243	0.616
10	1.70	0.0122	0.309
16	2.39	0.0075	0.191
25	3.06	0.0047	0.120
40	3.91	0.0026	0.067
50	4.34	0.0019	0.049
60	4.79	0.0014	0.036
75	5.68	0.0008	0.020
84	6.54	0.0004	0.011
90	7.43	0.0002	0.006
95	8.58	0.0001	0.003

Measure	Trask	Inman	Folk-Ward
Median, phi	4.34	4.34	4.34
Median, in.	0.0019	0.0019	0.0019
Median, mm	0.049	0.049	0.049
Mean, phi	3.84	4.46	4.42
Mean, in.	0.0027	0.0018	0.0018
Mean, mm	0.070	0.045	0.047
Sorting	2.472	2.073	2.231
Skewness	0.980	0.060	0.068
Kurtosis	0.165	0.902	1.238
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	7.50
Fine Sand	200	29.12
Silt	>0.005 mm	54.65
Clay	<0.005 mm	8.73
Total		100

Client: Crow Butte Resources, Inc.
Project: Marsland Core
Project No: N/A

PTS File No: 41269
Sample ID: M-1624c Run 2
Depth, ft: N/A



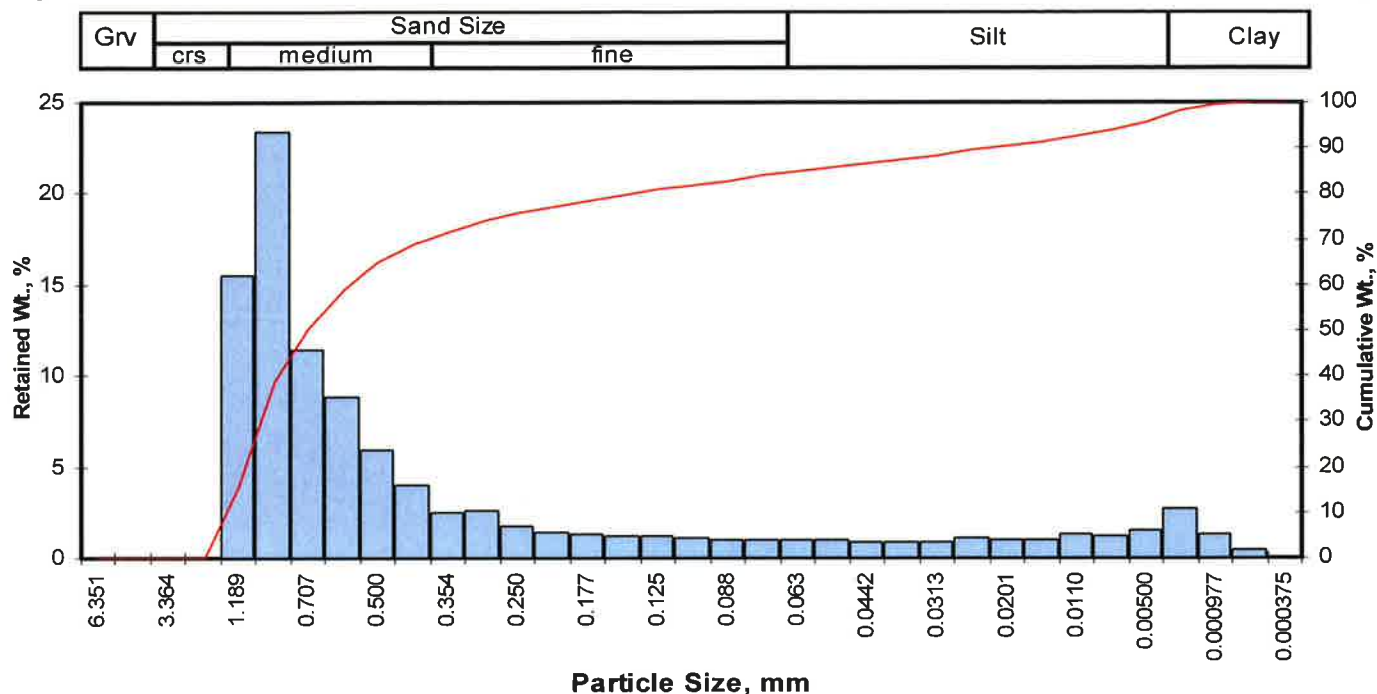
Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent	Cumulative Weight Percent greater than			
Inches	Millimeters						Weight percent	Phi Value	Particle Size	
								Inches	Millimeters	
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00	5	-0.09	0.0418	1.062
0.1873	4.757	-2.25	4	0.00	0.00	0.00	10	0.21	0.0341	0.867
0.1324	3.364	-1.75	6	0.00	0.00	0.00	16	0.57	0.0265	0.672
0.0787	2.000	-1.00	10	0.00	0.00	0.00	25	1.15	0.0177	0.450
0.0468	1.189	-0.25	16	2.23	2.23	2.23	40	2.63	0.0064	0.162
0.0331	0.841	0.25	20	8.51	8.51	10.74	50	3.94	0.0026	0.065
0.0278	0.707	0.50	25	4.07	4.07	14.81	60	5.07	0.0012	0.030
0.0234	0.595	0.75	30	4.04	4.04	18.85	75	6.67	0.0004	0.010
0.0197	0.500	1.00	35	3.97	3.97	22.82	84	7.71	0.0002	0.005
0.0166	0.420	1.25	40	3.55	3.55	26.37	90	8.47	0.0001	0.003
0.0139	0.354	1.50	45	2.54	2.54	28.91	95	9.17	0.0001	0.002
0.0117	0.297	1.75	50	3.04	3.04	31.95				
0.0098	0.250	2.00	60	2.40	2.40	34.35				
0.0083	0.210	2.25	70	2.31	2.31	36.66				
0.0070	0.177	2.50	80	2.24	2.24	38.91				
0.0059	0.149	2.75	100	2.14	2.14	41.05				
0.0049	0.125	3.00	120	1.98	1.98	43.03				
0.0041	0.105	3.25	140	1.83	1.83	44.86				
0.0035	0.088	3.50	170	1.79	1.79	46.65				
0.0029	0.074	3.75	200	1.85	1.85	48.50				
0.0025	0.063	4.00	230	1.93	1.93	50.43				
0.0021	0.053	4.25	270	2.00	2.00	52.43				
0.00174	0.0442	4.50	325	2.13	2.13	54.56				
0.00146	0.0372	4.75	400	2.28	2.28	56.84				
0.00123	0.0313	5.00	450	2.43	2.43	59.27				
0.000986	0.0250	5.32	500	3.22	3.22	62.49				
0.000790	0.0201	5.64	635	3.24	3.24	65.73				
0.000615	0.0156	6.00		3.39	3.39	69.12				
0.000435	0.0110	6.50		4.36	4.36	73.48				
0.000308	0.00781	7.00		4.35	4.35	77.83				
0.000197	0.00500	7.65		5.63	5.63	83.46				
0.000077	0.00195	9.00		10.80	10.80	94.26				
0.000038	0.000977	10.00		4.44	4.44	98.70				
0.000019	0.000488	11.00		1.22	1.22	99.92				
0.000015	0.000375	11.38		0.08	0.08	100.00				
TOTALS				100.00	100.00	100.00				

Measure	Trask	Inman	Folk-Ward
Median, phi	3.94	3.94	3.94
Median, in.	0.0026	0.0026	0.0026
Median, mm	0.065	0.065	0.065
Mean, phi	2.12	4.14	4.08
Mean, in.	0.0090	0.0022	0.0023
Mean, mm	0.230	0.057	0.059
Sorting	6.777	3.570	3.187
Skewness	1.022	0.056	0.092
Kurtosis	0.255	0.296	0.687

Grain Size Description		Fine sand	
(ASTM-USCS Scale)		(based on Mean from Trask)	
Description		Retained on Sieve #	Weight Percent
Gravel		4	0.00
Coarse Sand		10	0.00
Medium Sand		40	26.37
Fine Sand		200	22.12
Silt		>0.005 mm	34.96
Clay		<0.005 mm	16.54
Total		100	

Client: Crow Butte Resources, Inc.
Project: Marsland Core
Project No: N/A

PTS File No: 41269
Sample ID: M-1624c Run 4
Depth, ft: N/A



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	15.50	15.51	15.51
0.0331	0.841	0.25	20	23.40	23.41	38.92
0.0278	0.707	0.50	25	11.40	11.41	50.33
0.0234	0.595	0.75	30	8.81	8.82	59.14
0.0197	0.500	1.00	35	5.92	5.92	65.07
0.0166	0.420	1.25	40	3.98	3.98	69.05
0.0139	0.354	1.50	45	2.47	2.47	71.52
0.0117	0.297	1.75	50	2.62	2.62	74.14
0.0098	0.250	2.00	60	1.71	1.71	75.85
0.0083	0.210	2.25	70	1.39	1.39	77.24
0.0070	0.177	2.50	80	1.26	1.26	78.51
0.0059	0.149	2.75	100	1.22	1.22	79.73
0.0049	0.125	3.00	120	1.14	1.14	80.87
0.0041	0.105	3.25	140	1.05	1.05	81.92
0.0035	0.088	3.50	170	1.01	1.01	82.93
0.0029	0.074	3.75	200	1.01	1.01	83.94
0.0025	0.063	4.00	230	0.99	0.99	84.93
0.0021	0.053	4.25	270	0.95	0.95	85.88
0.00174	0.0442	4.50	325	0.91	0.91	86.79
0.00146	0.0372	4.75	400	0.88	0.88	87.67
0.00123	0.0313	5.00	450	0.85	0.85	88.52
0.000986	0.0250	5.32	500	1.03	1.03	89.55
0.000790	0.0201	5.64	635	0.99	0.99	90.54
0.000615	0.0156	6.00		1.01	1.01	91.55
0.000435	0.0110	6.50		1.25	1.25	92.80
0.000308	0.00781	7.00		1.21	1.21	94.01
0.000197	0.00500	7.65		1.48	1.48	95.50
0.000077	0.00195	9.00		2.68	2.68	98.18
0.000038	0.000977	10.00		1.33	1.33	99.51
0.000019	0.000488	11.00		0.46	0.46	99.97
0.000015	0.000375	11.38		0.03	0.03	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.76	0.0666	1.691
10	-0.52	0.0563	1.430
16	-0.24	0.0465	1.181
25	-0.05	0.0407	1.033
40	0.27	0.0326	0.827
50	0.49	0.0280	0.711
60	0.79	0.0228	0.580
75	1.88	0.0107	0.273
84	3.77	0.0029	0.074
90	5.46	0.0009	0.023
95	7.43	0.0002	0.006

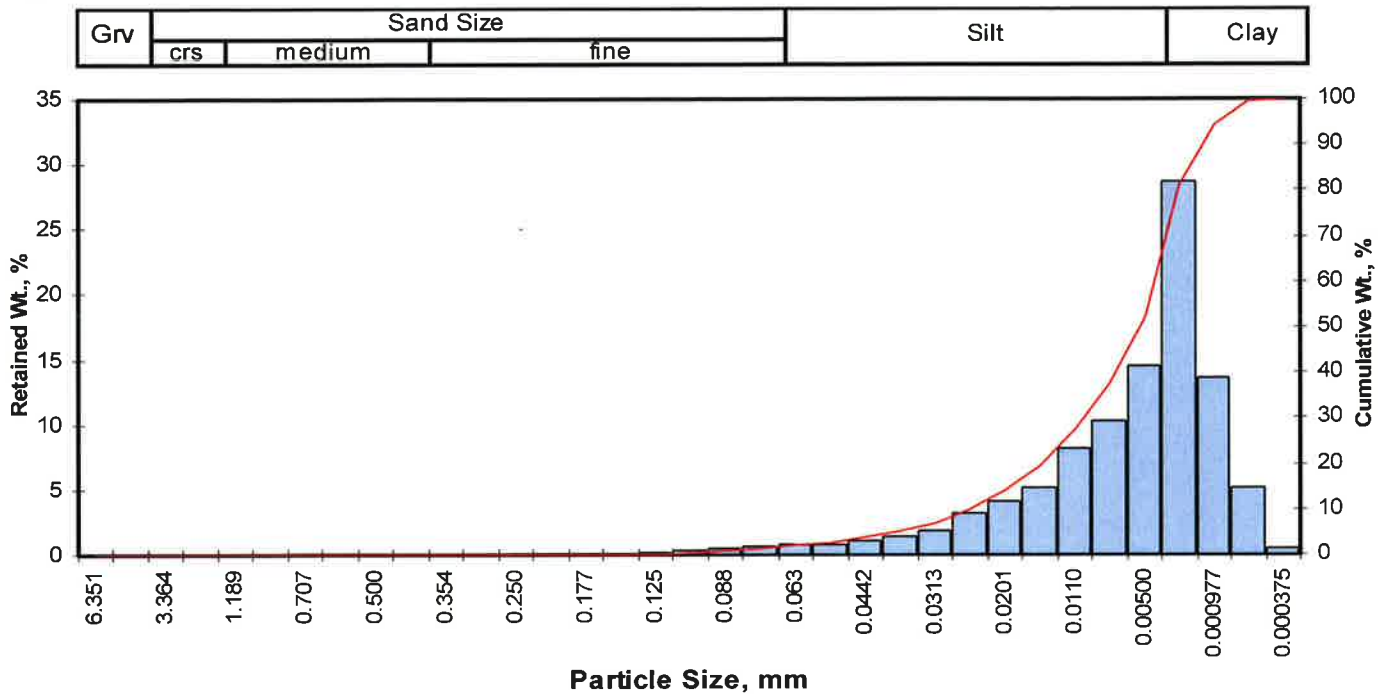
Measure	Trask	Inman	Folk-Ward
Median, phi	0.49	0.49	0.49
Median, in.	0.0280	0.0280	0.0280
Median, mm	0.711	0.711	0.711
Mean, phi	0.61	1.76	1.34
Mean, in.	0.0257	0.0116	0.0156
Mean, mm	0.653	0.295	0.395
Sorting	1.947	2.002	2.242
Skewness	0.747	0.634	0.664
Kurtosis	0.270	1.044	1.745

Grain Size Description	Medium sand
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	69.05
Fine Sand	200	14.89
Silt	>0.005 mm	11.56
Clay	<0.005 mm	4.50
Total		100

Client: Crow Butte Resources, Inc.
Project: Marsland Core
Project No: N/A

PTS File No: 41269
Sample ID: M-1624c Run 5
Depth, ft: N/A



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.00	0.00	0.00
0.0059	0.149	2.75	100	0.01	0.01	0.01
0.0049	0.125	3.00	120	0.08	0.08	0.09
0.0041	0.105	3.25	140	0.24	0.24	0.33
0.0035	0.088	3.50	170	0.39	0.39	0.72
0.0029	0.074	3.75	200	0.56	0.56	1.28
0.0025	0.063	4.00	230	0.70	0.70	1.98
0.0021	0.053	4.25	270	0.81	0.81	2.79
0.00174	0.0442	4.50	325	0.99	0.99	3.78
0.00146	0.0372	4.75	400	1.31	1.31	5.09
0.00123	0.0313	5.00	450	1.80	1.80	6.89
0.000986	0.0250	5.32	500	3.15	3.15	10.03
0.000790	0.0201	5.64	635	4.11	4.11	14.14
0.000615	0.0156	6.00		5.11	5.11	19.25
0.000435	0.0110	6.50		8.22	8.22	27.47
0.000308	0.00781	7.00		10.20	10.20	37.66
0.000197	0.00500	7.65		14.50	14.49	52.15
0.000077	0.00195	9.00		28.70	28.69	80.84
0.000038	0.000977	10.00		13.60	13.59	94.43
0.000019	0.000488	11.00		5.15	5.15	99.58
0.000015	0.000375	11.38		0.42	0.42	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	4.73	0.0015	0.038
10	5.32	0.0010	0.025
16	5.77	0.0007	0.018
25	6.35	0.0005	0.012
40	7.10	0.0003	0.007
50	7.55	0.0002	0.005
60	8.02	0.0002	0.004
75	8.72	0.0001	0.002
84	9.23	0.0001	0.002
90	9.67	0.0000	0.001
95	10.11	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	7.55	7.55	7.55
Median, in.	0.0002	0.0002	0.0002
Median, mm	0.005	0.005	0.005
Mean, phi	7.10	7.50	7.52
Mean, in.	0.0003	0.0002	0.0002
Mean, mm	0.007	0.006	0.005
Sorting	2.277	1.731	1.680
Skewness	1.008	-0.027	-0.037
Kurtosis	0.207	0.553	0.928

Grain Size Description	Silt
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	1.28
Silt	>0.005 mm	50.88
Clay	<0.005 mm	47.85
Total		100



ANALYTICAL SUMMARY REPORT

June 10, 2011

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11040735
Project Name: Not Indicated

Energy Laboratories, Inc. Casper WY received the following 14 samples for Crow Butte Resources on 4/22/2011 for analysis.


Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11040735-001	M1454c-Run3-Sample 1	03/22/11 0:00	04/22/11	Core	Metals by ICP/ICPMS, Total Digestion, Total Metals for Core Samples Gamma Sample Preparation Uranium by Gamma
C11040735-002	M1454c-Run3-Sample 2	03/22/11 0:00	04/22/11	Core	Same As Above
C11040735-003	M1454c-Run3-Sample 3	03/22/11 0:00	04/22/11	Core	Same As Above
C11040735-004	M1454c-Run3-Sample 4	03/22/11 0:00	04/22/11	Core	Same As Above
C11040735-005	M1454c-Run3-Sample 5	03/22/11 0:00	04/22/11	Core	Same As Above
C11040735-006	M1624c-Run3-Sample 1	03/25/11 0:00	04/22/11	Core	Same As Above
C11040735-007	M1624c-Run3-Sample 2	03/25/11 0:00	04/22/11	Core	Same As Above
C11040735-008	M1624c-Run3-Sample 3	03/25/11 0:00	04/22/11	Core	Same As Above
C11040735-009	M1624c-Run3-Sample 4	03/25/11 0:00	04/22/11	Core	Same As Above
C11040735-010	M1624c-Run4-Sample 1	03/25/11 0:00	04/22/11	Core	Same As Above
C11040735-011	M1624c-Run4-Sample 2	03/22/11 0:00	04/22/11	Core	Same As Above
C11040735-012	M1624c-Run4-Sample 3	03/22/11 0:00	04/22/11	Core	Same As Above
C11040735-013	M1624c-Run4-Sample 4	03/22/11 0:00	04/22/11	Core	Same As Above
C11040735-014	M1624c-Run4-Sample 5	03/22/11 0:00	04/22/11	Core	Same As Above

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

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

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

Report Approved By:


Stephanie D. Waldrop
Reporting Supervisor



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Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

CLIENT: Crow Butte Resources
Project: Not Indicated
Sample Delivery Group: C11040735

Report Date: 06/10/11

CASE NARRATIVE

ORIGINAL SAMPLE SUBMITTAL(S)

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

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

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

GROSS ALPHA ANALYSIS

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

SOIL/SOLID SAMPLES

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

SUBCONTRACTING ANALYSIS

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

BRANCH LABORATORY LOCATIONS

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

CERTIFICATIONS:

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

ISO 17025 DISCLAIMER:

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

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

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



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Report Date: 06/10/11
Date Received: 04/22/11

Client: Crow Butte Resources
Project: Not Indicated
Workorder: C11040735

Analysis		U		U3O8		U		U3O8	
Units		Chemical		Chemical		Gamma		Gamma	
Sample ID	Client Sample ID	Results	%	Results	%	Results	%	Results	%
C11040735-001	M1454c-Run3-Sample 1	< 0.005		< 0.006		0.038		0.045	
C11040735-002	M1454c-Run3-Sample 2	0.013		0.015		0.109		0.129	
C11040735-003	M1454c-Run3-Sample 3	0.259		0.305		0.370		0.436	
C11040735-004	M1454c-Run3-Sample 4	1.51		1.74		1.04		1.22	
C11040735-005	M1454c-Run3-Sample 5	1.12		1.24		0.715		0.842	
C11040735-006	M1624c-Run3-Sample 1	0.009		0.010		0.003		0.004	
C11040735-007	M1624c-Run3-Sample 2	< 0.005		< 0.006		0.004		0.004	
C11040735-008	M1624c-Run3-Sample 3	< 0.005		< 0.006		0.003		0.004	
C11040735-009	M1624c-Run3-Sample 4	< 0.005		< 0.006		0.003		0.004	
C11040735-010	M1624c-Run4-Sample 1	< 0.005		< 0.006		0.004		0.005	
C11040735-011	M1624c-Run4-Sample 2	< 0.005		< 0.006		0.002		0.003	
C11040735-012	M1624c-Run4-Sample 3	0.024		0.028		0.022		0.026	
C11040735-013	M1624c-Run4-Sample 4	< 0.005		< 0.006		0.016		0.019	
C11040735-014	M1624c-Run4-Sample 5	0.032		0.037		0.028		0.033	



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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/10/11

Project: Not Indicated

Work Order: C11040735

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										Batch: R146661
Sample ID: LCS-R146661		Laboratory Control Sample					Run: GAM-NAI_110606A			06/06/11 12:16
Radium 226		8.00	pCi/g-dry	2.0	92	80	120			
Sample ID: MB-R146661	2	Method Blank					Run: GAM-NAI_110606A			06/06/11 12:16
Uranium by Gamma		ND	mg/kg-dry							U
U3O8 by Gamma		ND	mg/kg-dry							U
Sample ID: C11040735-010ADUP	2	Sample Duplicate					Run: GAM-NAI_110606A			06/06/11 12:16
Uranium by Gamma		43.3	mg/kg-dry	6.0				3.6	20	
U3O8 by Gamma		51.1	mg/kg-dry	7.1				3.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/10/11

Project: Not Indicated

Work Order: C11040735

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020										Batch: 29668
Sample ID: MB-29668	Method Blank						Run: ICPMS2-C_110429A			04/30/11 08:13
Uranium	0.02	mg/kg-dry		0.002						
Sample ID: LCS3-29668	Laboratory Control Sample						Run: ICPMS2-C_110429A			04/30/11 08:34
Uranium	106	mg/kg-dry		0.50	106	54.2	183			
Sample ID: C11040735-014AMS3	Sample Matrix Spike						Run: ICPMS2-C_110429A			04/30/11 10:26
Uranium	404	mg/kg-dry		0.50		75	125			A
Sample ID: C11040735-014AMSD	Sample Matrix Spike Duplicate						Run: ICPMS2-C_110429A			04/30/11 10:30
Uranium	411	mg/kg-dry		0.50		75	125	1.8	20	A
Method: SW6020										Batch: 29668
Sample ID: MB-29668	Method Blank						Run: ICPMS2-C_110502A			05/03/11 00:52
Uranium	0.2	mg/kg-dry		0.002						
Sample ID: LCS3-29668	Laboratory Control Sample						Run: ICPMS2-C_110502A			05/03/11 01:18
Uranium	126	mg/kg-dry		0.50	126	54.2	183			
Sample ID: C11040735-014AMS3	Sample Matrix Spike						Run: ICPMS2-C_110502A			05/03/11 01:50
Uranium	431	mg/kg-dry		0.50		75	125			A
Sample ID: C11040735-014AMSD	Sample Matrix Spike Duplicate						Run: ICPMS2-C_110502A			05/03/11 01:55
Uranium	443	mg/kg-dry		0.50		75	125	2.7	20	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

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



Energy Laboratories Inc

Workorder Receipt Checklist



C11040735

Crow Butte Resources

Login completed by: Corinne Wagner

Date Received: 4/22/2011

Reviewed by: BL2000\lemcpike

Received by: ckw

Reviewed Date: 4/25/2011

Carrier Ground name:

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

Contact and Corrective Action Comments:

None



Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name: Crow Butte Resources, Inc		Project Name, PWS, Permit, Etc.		Sample Origin State: Nebraska		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>			
Report Mail Address: PO Box 169		Contact Name: Wade Beins		Phone/Fax: 308 665 2215 ext 113		Email: Wade_Beins@cameco.com		Sampler: (Please Print) Wade Beins	
Invoice Address: PO Box 169		Invoice Contact & Phone: Terri Anderson 308 665 2215 ext 110		Purchase Order: 5450		Quote/Bottle Order.			
Special Report/Formats – ELI 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 Format: _____ <input type="checkbox"/> State: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: _____ <input type="checkbox"/> NELAC		ANALYSIS REQUESTED		SEE ATTACHED		Normal Turnaround (TAT)		Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page	
Number of Containers Sample Type: A W S V B O Vegetation Bioassay Other		Closed Can Uranium		Chemical Uranium		Matrix		Comments:	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date		Collection Time					
1 M1454c-Run3-Sample 1		3/22/11		NA		S		Shipped by: UPS-G	
2 M1454c-Run3-Sample 2		3/22/11		NA		S		Cooler ID(s): BOX	
3 M1454c-Run3-Sample 3		3/22/11		NA		S		Receipt Temp: 11A°C	
4 M1454c-Run3-Sample 4		3/22/11		NA		S		On Ice: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
5 M1454c-Run3-Sample 5		3/22/11		NA		S		Custody Seal Intact Y <input type="checkbox"/> N <input type="checkbox"/>	
6 M1624c-Run3-Sample 1		3/25/11		NA		S		Signature Match Y <input type="checkbox"/> N <input type="checkbox"/>	
7 M1624c-Run3-Sample 2		3/25/11		NA		S			
8 M1624c-Run3-Sample 3		3/25/11		NA		S			
9 M1624c-Run3-Sample 4		3/25/11		NA		S			
10 M1624c-Run4-Sample 1		3/25/11		NA		S		LABORATORY USE ONLY	
Custody Record MUST be Signed		Relinquished by (print): Wade Beins		Date / time: 4/20/11		Signature: Wade Beins		Received by (print):	
		Relinquished by (print):		Date / time:		Signature:		Date / time:	
Sample Disposal:		Return to Client: Yes		Lab Disposal:		Received by Laboratory: Wade Beins		Date / time: 4/22/11	

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 indicated 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: Crow Butte Resources, Inc		Project Name, PWS, Permit, Etc.		Sample Origin State: Nebraska		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>																																																																
Report Mail Address: PO Box 169		Contact Name: Wade Beins		Phone/Fax: 308 665 2215 ext 113		Sampler: (Please Print) Wade Beins																																																																
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