



## ANALYTICAL SUMMARY REPORT

October 24, 2005

Harold Backer  
 NFU-WY LLC  
 8420 Continental Divide Rd  
 Ste 200  
 Ken Caryl Ranch, CO 80127

Lost Creek  
 Water Well LC1W  
 Sample #1

Workorder No.: C05100341

Project Name: Lost Creek

Energy Laboratories Inc. received the following 1 sample from NFU-WY LLC on 10/7/2005 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C05100341-001	LC1-W	10/07/05 9:30	10/07/05	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Sample Filtering Fluoride Nitrogen, Ammonia Nitrogen, Nitrite Nitrogen, Nitrate + Nitrite pH Radium 226, Dissolved Solids, Total Dissolved

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative or Report.

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

Report Approved By:

*R.A. Carling*  
 ROGER CARLING  
 LABORATORY SUPERVISOR



LABORATORY ANALYTICAL REPORT

Client: NFU-WY LLC  
 Project: Lost Creek  
 Lab ID: C05100341-001  
 Client Sample ID: LC1-W

Report Date: 10/24/05  
 Collection Date: 10/07/05 09:30  
 Date Received: 10/07/05  
 Matrix: Aqueous

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>MAJOR IONS</b>							
Alkalinity, Total as CaCO3	107	mg/L		1		A2320 B	10/12/05 12:14 / th
Carbonate as CO3	ND	mg/L		1		A2320 B	10/12/05 12:14 / th
Bicarbonate as HCO3	130	mg/L		1		A2320 B	10/12/05 12:14 / th
Calcium	27	mg/L		1		E200.7	10/18/05 16:32 / cp
Chloride	4	mg/L		1		E200.7	10/18/05 16:32 / cp
Fluoride	0.4	mg/L		0.1		A4500-F C	10/11/05 11:27 / slb
Magnesium	2	mg/L		1		E200.7	10/18/05 16:32 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	10/10/05 16:58 / jal
Nitrogen, Nitrate+Nitrite as N	1.6	mg/L		0.1		E353.2	10/10/05 12:26 / jal
Nitrogen, Nitrite as N	ND	mg/L		0.1		A4500-NO2 B	10/11/05 13:24 / jal
Potassium	1	mg/L		1		E200.7	10/18/05 16:32 / cp
Silica	15.6	mg/L		0.1		E200.7	10/18/05 16:32 / cp
Sodium	26	mg/L		1		E200.7	10/18/05 16:32 / cp
Sulfate	20	mg/L		1		E200.7	10/18/05 16:32 / cp
<b>PHYSICAL PROPERTIES</b>							
Conductivity	274	umhos/cm		1.0		A2510 B	10/10/05 14:08 / jc
pH	8.06	s.u.		0.01		A4500-H B	10/10/05 16:58 / jc
Solids, Total Dissolved TDS @ 180 C	170	mg/L		10		A2540 C	10/10/05 13:34 / jc
<b>METALS - DISSOLVED</b>							
Aluminum	ND	mg/L		0.1		E200.8	10/20/05 10:10 / sml
Arsenic	0.002	mg/L		0.001		E200.8	10/20/05 10:10 / sml
Barium	ND	mg/L		0.1		E200.8	10/20/05 10:10 / sml
Boron	ND	mg/L		0.1		E200.7	10/18/05 16:32 / cp
Cadmium	ND	mg/L		0.005		E200.8	10/20/05 10:10 / sml
Chromium	ND	mg/L		0.05		E200.8	10/20/05 10:10 / sml
Copper	ND	mg/L		0.01		E200.8	10/20/05 10:10 / sml
Iron	ND	mg/L		0.03		E200.7	10/18/05 16:32 / cp
Lead	ND	mg/L		0.05		E200.8	10/20/05 10:10 / sml
Manganese	ND	mg/L		0.01		E200.8	10/20/05 10:10 / sml
Mercury	ND	mg/L		0.001		E200.8	10/20/05 10:10 / sml
Molybdenum	ND	mg/L		0.1		E200.8	10/20/05 10:10 / sml
Nickel	ND	mg/L		0.05		E200.8	10/20/05 10:10 / sml
Selenium	0.008	mg/L		0.001		E200.8	10/20/05 10:10 / sml
Uranium	0.129	mg/L		0.0003		E200.8	10/20/05 10:10 / sml
Vanadium	ND	mg/L		0.1		E200.8	10/20/05 10:10 / sml
Zinc	ND	mg/L		0.01		E200.8	10/20/05 10:10 / sml
<b>RADIONUCLIDES - DISSOLVED</b>							
Radium 226	ND	pCi/L		0.2		E903.0	10/10/05 13:55 / df

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

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



LABORATORY ANALYTICAL REPORT

Client: NFU-WY LLC  
 Project: Lost Creek  
 Lab ID: C05100341-001  
 Client Sample ID: LC1-W

Report Date: 10/24/05  
 Collection Date: 10/07/05 09:30  
 Date Received: 10/07/05  
 Matrix: Aqueous

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>DATA QUALITY</b>							
A/C Balance (± 5)	-1.88	%				Calculation	10/21/05 10:15 / dab
Anions	2.78	meq/L				Calculation	10/21/05 10:15 / dab
Cations	2.68	meq/L				Calculation	10/21/05 10:15 / dab
Solids, Total Dissolved Calculated	167	mg/L				Calculation	10/21/05 10:15 / dab
TDS Balance (0.80 - 1.20)	1.02	dec. %				Calculation	10/21/05 10:15 / dab

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

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



Energy Laboratories Inc.

Sample Receipt Checklist

Client Name NFU-WY LLC

Date and Time Received: 10/7/2005 16:30:00

Work Order Number C05100341

Received by em

Checklist completed by: [Signature] \_\_\_\_\_  
 Signature Date

Reviewed by \_\_\_\_\_  
 Initials Date

Carrier name Hand Del

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container/Temp Blank temperature in compliance? Yes  No  13.2 °C From Field
- Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted
- Water - pH acceptable upon receipt? Yes  No  Not Applicable

Adjusted? \_\_\_\_\_ Checked by \_\_\_\_\_

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments:

Sample split, filtered and preserved in lab where applicable.

Corrective Action \_\_\_\_\_





Date: 24-Oct-05

CLIENT: NFU-WY LLC  
Project: Lost Creek  
Sample Delivery Group: C05100341

## CASE NARRATIVE

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

### BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT  
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID  
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

### ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package. A copy of the submittal(s) has been included and tracked in the data package.

### 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.

### 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.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by NELAC. Some client specific reporting requirements may not require NELAC reporting protocol. NELAC Certification Number E87641.

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page [www.energylab.com](http://www.energylab.com).

The total number of pages of this report are indicated by the page number located in the lower right corner.

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

Company Name: <b>UP-Energy USA</b> Report Mail Address: <b>3167 Energy Lane #700</b> <b>Casper WY 82604</b> Invoice Address: <b>APU Energy LLC - ILLINOIS</b> <b>8420 S Continental Divided Rd #200</b> <b>Ken Caryl Ranch CO 80127</b>		Project Name, PWS #, Permit #, Etc.: <b>Lost Creek</b> Contact Name, Phone, Fax, E-mail: <b>Tom Nicholson</b> <b>265-2373</b> Invoice Contact & Phone #: <b>Harold Backer</b> <b>720 981-4588</b>		Purchase Order #: _____ ELI Quote #: _____	
Report Required For: <input type="checkbox"/> POT/WWTP <input type="checkbox"/> DW <input type="checkbox"/> Other _____ Special Report Formats - ELI must be notified prior to sample submittal for the following: NELAC <input type="checkbox"/> A2LA <input type="checkbox"/> Level IV <input type="checkbox"/> Other _____ EDD/EDT <input type="checkbox"/> Format _____ <b>2005</b>		ANALYSIS REQUESTED Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other Number of Containers MATRIX SEE ATTACHED Dissolved Girdle &		Notify ELI prior to RUSH sample submittal for additional charges and scheduling Comments: _____ RUSH Turnaround (TAT) _____ Normal Turnaround (TAT) _____	
Shipped by: <b>Hand-field</b> Cooler ID(s) _____ Receipt Temp: <b>13.2 °C</b> Custody Seal Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Intact Y <input type="checkbox"/> N <input type="checkbox"/> Signature Y <input type="checkbox"/> N <input type="checkbox"/> Match Y <input type="checkbox"/> N <input type="checkbox"/> Lab ID _____		Shipped by: _____ Cooler ID(s) _____ Receipt Temp: _____ Custody Seal Y <input type="checkbox"/> N <input type="checkbox"/> Intact Y <input type="checkbox"/> N <input type="checkbox"/> Signature Y <input type="checkbox"/> N <input type="checkbox"/> Match Y <input type="checkbox"/> N <input type="checkbox"/> Lab ID _____		Shipped by: _____ Cooler ID(s) _____ Receipt Temp: _____ Custody Seal Y <input type="checkbox"/> N <input type="checkbox"/> Intact Y <input type="checkbox"/> N <input type="checkbox"/> Signature Y <input type="checkbox"/> N <input type="checkbox"/> Match Y <input type="checkbox"/> N <input type="checkbox"/> Lab ID _____	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) 1 <b>LC1-W</b> Collection Date <b>10/7</b> Collection Time <b>9:30</b> 2 _____ 3 _____ 4 _____ 5 _____ 6 _____ 7 _____ 8 _____ 9 _____ 10 _____		Received by (print): _____ Signature: _____ Date/Time: <b>10/7/05 4:30</b>		Received by (print): _____ Signature: <b>Tom Nicholson</b> Date/Time: <b>10/7/05 4:30</b>	
Relinquished by (print): _____ Signature: _____ Date/Time: _____		Relinquished by (print): _____ Signature: _____ Date/Time: _____		Relinquished by (print): _____ Signature: _____ Date/Time: _____	
Sample Disposal: _____      Return to client: _____ Lab Disposal: _____		Sample Type: _____ # of fractions _____		Signature: _____ Date/Time: <b>10/7/05 16:30</b>	
<b>Custody Record MUST be Signed</b>		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](http://www.energylab.com) for additional information, downloadable fee schedule, forms, & links.