





## ANALYTICAL SUMMARY REPORT

February 20, 2007

Innovative Engineering  
12140 Gooch Hill Rd.  
Gallatin Gateway, MT 59730

Workorder No.: H07020065

Project Name: Silvertip

Energy Laboratories Inc received the following 1 sample from Innovative Engineering on 2/9/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H07020065-001	Silvertip	02/08/07	14:00 02/09/07	Drinking Water	Metals by ICP/ICPMS, Drinking Water Conductivity Nitrogen, Nitrate + Nitrite Sulfide, Iodine Titrimetric

### BRANCH LABORATORY LOCATIONS

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-r - Energy Laboratories, Inc. - Rapid City, SD, EPA# SD00012  
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

### SUBCONTRACTING ANALYSIS

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.

### 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.

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

Report Approved By: \_\_\_\_\_



ENERGY LABORATORIES, INC. • P.O. Box 5688 • 3161 East Lyndale Av. Helena, MT 59604  
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**CASE NARRATIVE**

NONE



### LABORATORY ANALYTICAL REPORT

Client: Innovative Engineering  
Project: Silvertip  
Lab ID: H07020065-001  
Client Sample ID: Silvertip

Report Date: 02/20/07  
Collection Date: 02/08/07 14:00  
Date Received: 02/09/07  
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL PROPERTIES</b>							
Conductivity	210	umhos/cm		1		A2510 B	02/13/07 09:28 / abb
<b>INORGANICS</b>							
Sulfide	ND	mg/L		1		E376.1	02/13/07 11:00 / eli-b
<b>NUTRIENTS</b>							
Nitrogen, Nitrate+Nitrite as N	0.33	mg/L		0.05	10	E353.2	02/13/07 12:00 / sld
<b>METALS, TOTAL (CONTRACT LAB MT00005)</b>							
Iron	30	mg/L		0.03		E200.7	02/13/07 19:55 / eli-b
Manganese	0.35	mg/L		0.01		E200.7	02/13/07 19:55 / eli-b

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

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



### QA/QC Summary Report

Client: Innovative Engineering  
 Project: Silvertip

Report Date: 02/20/07  
 Work Order: H07020065

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: A2510 B</b>		<b>Batch: 070213A-COND-PROBE-W</b>							
<b>Sample ID: LCS1_070213A</b>	<b>Laboratory Control Sample</b>				<b>Run: COND_070213A</b>		<b>02/13/07 09:09</b>		
Conductivity	151	umhos/cm	1.0	103	90	110			
<b>Sample ID: H07020057-002ADUP</b>	<b>Sample Duplicate</b>				<b>Run: COND_070213A</b>		<b>02/13/07 09:25</b>		
Conductivity	408	umhos/cm	1.0				0.3	10	
<b>Method: E200.7</b>		<b>Batch: B_25600</b>							
<b>Sample ID: MB-25600</b>	<b>Method Blank</b>				<b>Run: SUB-B89487</b>		<b>02/13/07 18:58</b>		
Iron	ND	mg/L	0.03						
Manganese	ND	mg/L	0.0003						
<b>Sample ID: LCS3-25600</b>	<b>Laboratory Control Sample</b>				<b>Run: SUB-B89487</b>		<b>02/13/07 19:05</b>		
Iron	5.0	mg/L	0.030	100	85	115			
Manganese	5.1	mg/L	0.010	102	85	115			
<b>Sample ID: B07020681-001A MS3</b>	<b>Sample Matrix Spike</b>				<b>Run: SUB-B89487</b>		<b>02/13/07 19:40</b>		
Iron	5.9	mg/L	0.030	101	70	130			
Manganese	5.2	mg/L	0.010	101	70	130			
<b>Sample ID: B07020681-001A MSD3</b>	<b>Sample Matrix Spike Duplicate</b>				<b>Run: SUB-B89487</b>		<b>02/13/07 19:44</b>		
Iron	6.0	mg/L	0.030	102	70	130	0.3	20	
Manganese	5.2	mg/L	0.010	102	70	130	1.0	20	
<b>Method: E200.7</b>		<b>Analytical Run: SUB-B89487</b>							
<b>Sample ID: QCS</b>	<b>Initial Calibration Verification Standard</b>						<b>02/13/07 15:54</b>		
Iron	5.13	mg/L	0.030	103	90	110			
Manganese	5.18	mg/L	0.010	104	90	110			

**Qualifiers:**

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### QA/QC Summary Report

Client: Innovative Engineering  
 Project: Silvertip

Report Date: 02/20/07  
 Work Order: H07020065

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2		Analytical Run: NUTRIENTS_070213A							
Sample ID: ICV-1	Initial Calibration Verification Standard								02/13/07 09:44
Nitrogen, Nitrate+Nitrite as N	1.01	mg/L	0.050	101	90	110			
Method: E353.2		Batch: A2007-02-13_5_NO3_01							
Sample ID: LCS-2	Laboratory Control Sample				Run: NUTRIENTS_070213A		02/13/07 09:46		
Nitrogen, Nitrate+Nitrite as N	26.1	mg/L	0.30	98	90	110			
Sample ID: LFB-3	Laboratory Fortified Blank				Run: NUTRIENTS_070213A		02/13/07 09:48		
Nitrogen, Nitrate+Nitrite as N	0.520	mg/L	0.050	104	90	110			
Sample ID: MBLK-6	Method Blank				Run: NUTRIENTS_070213A		02/13/07 09:54		
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.01						
Sample ID: H07020050-001BMS	Sample Matrix Spike				Run: NUTRIENTS_070213A		02/13/07 11:40		
Nitrogen, Nitrate+Nitrite as N	0.980	mg/L	0.050	98	90	110			
Sample ID: H07020050-001BMSD	Sample Matrix Spike Duplicate				Run: NUTRIENTS_070213A		02/13/07 11:42		
Nitrogen, Nitrate+Nitrite as N	0.990	mg/L	0.050	99	90	110	1.0	20	
Sample ID: H07020065-001ADUP	Sample Duplicate				Run: NUTRIENTS_070213A		02/13/07 12:02		
Nitrogen, Nitrate+Nitrite as N	0.330	mg/L	0.050				0.0	20	
Method: E376.1		Batch: B_070213A-SULFIDE-TTR-W							
Sample ID: B07020615-002ADUP	Sample Duplicate				Run: SUB-B89460		02/13/07 11:00		
Sulfide	1200	mg/L	1.0				0.0	20	
Sample ID: B07020615-004AMS	Sample Matrix Spike				Run: SUB-B89460		02/13/07 11:00		
Sulfide	244	mg/L	1.0	102	80	120			
Sample ID: B07020615-004AMSD	Sample Matrix Spike Duplicate				Run: SUB-B89460		02/13/07 11:00		
Sulfide	240	mg/L	1.0	98	80	120	1.7	20	

**Qualifiers:**

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**Energy Laboratories Inc**

**Sample Receipt Checklist**

Client Name **Innovative Engineering**

Date and Time Received: **2/9/2007 10:17:00 AM**

Work Order Number **H07020065**

Received by **sld**

Login completed by: Roxanne L. Tubbs 2/9/2007 10:17:00  
Signature Date

Reviewed by JTB 2/12/07  
Initials Date

Carrier name UPS SDP

- 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  4 °C
- Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted
- Water - pH acceptable upon receipt? Yes  No  Not Applicable

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

Contact and Corrective Action Comments:

None



# Chain of Custody and Analytical Request Record

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

Company Name: INNOVATIVE ENGINEERING  
 Report Mail Address: 12145 SOOCLIFF SALEM DRIVE  
 Invoice Address: MT 59 730  
 Project Name, PWS #, Permit #, Etc.: SILVERTIP  
 Contact Name, Phone, Fax, E-mail: TERRY THRELLER  
 Sampler Name if other than Contact: FAX 406-705-4108  
 Purchase Order #: ELI QUOTE #:  
 Invoice Contact & Phone #: SAME - 406-705-4108  
 E-mail: TERRY.THRELLER@MIN.COM

Report Required For:  POTWWTP  DW  Other TEST USE  
 Special Report Formats - ELI must be notified prior to sample submittal for the following:  
 NELAC  A2LA  Level IV  Other \_\_\_\_\_  
 EDD/EDT  Format \_\_\_\_\_

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	Number of Containers	ANALYSIS REQUESTED			Notify ELI prior to RUSH sample submittal for additional charges and scheduling	Shipped by: Cooler ID(s)
				Sample Type: A W S V B O	Normal Turnaround (TAT)	RUSH Turnaround (TAT)		
1 SILVERTIP	2/26/07	2:00	1	MATRIX	SEE ATTACHED	SEE ATTACHED	UPS SDP	
2								
3								
4								
5								
6								
7								
8								
9								
10								

Comments: \_\_\_\_\_  
 Custody Seal Intact  Signature Match  Lab ID 40702006501  
 Receipt Temp 4.0 °C

Relinquished by (print): TERRY THRELLER Date/Time: 2/27/07 4:20 Signature: \_\_\_\_\_  
 Relinquished by (print): TERRY THRELLER Date/Time: 2/27/07 15:00 Signature: \_\_\_\_\_  
 Received by (print): Stephanie Dull Date/Time: 2.9.07 10:17 Signature: \_\_\_\_\_  
 Received by (print): \_\_\_\_\_ Date/Time: \_\_\_\_\_ Signature: \_\_\_\_\_

Sample Disposal: \_\_\_\_\_ Return to client: \_\_\_\_\_ Lab Disposal: \_\_\_\_\_  
 Sample Type: \_\_\_\_\_ # of fractions: \_\_\_\_\_

**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](http://www.energylab.com) for additional information, downloadable fee schedule, forms, & links.