



June 28, 2011

Mr. Mike Davis  
Canyon Fuel Company  
Sufco Mine  
597 South SR 24  
Salina, Utah 85654

Dear Mr. Davis:

Enclosed are the results for samples our laboratory received on June 9, 2011. The analyses were completed according to Utah "Guidelines for Management of Topsoil and Overburden for Underground and Surface Coal Mining."

Feel free to contact me at your convenience if you have any questions or concerns.

Sincerely,

A handwritten signature in blue ink that reads 'Karen Secor'.

Karen Secor  
Mining Soils

xc: File  
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Soil Analysis Report  
Canyon Fuel Company, LLC.

397 South 800 West  
Salina, UT 84654

Report ID: S1106184001

Project: Sufco  
Date Received: 6/9/2011

Date Reported: 6/28/2011  
Work Order: S1106184

Lab ID	Sample ID	pH	Saturation	Electrical	PE	PE	PE	SAR	PE	Selenium	Boron
		s.u.	%	Conductivity	Calcium	Magnesium	Sodium		Alkalinity	ppm	ppm
				dS/m	meq/L	meq/L	meq/L		meq/L		
S1106184-001	WRDS 2nd Quarter	6.6	42.0	1.81	28.7	21.3	0.68	0.14	4.49	0.06	2.16

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor  
Karen Secor, Soil Lab Supervisor



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Lab ID	Sample ID	Total Sulfur	T.S. AB	Neutral. Potential	T.S. ABP	Sulfate Sulfur	Pyritic Sulfur	Organic Sulfur	PyriticS AB	PyriticS ABP
		%	µ/1000t	µ/1000t	µ/1000t	%	%	%	µ/1000t	µ/1000t
S1106184-001	WRDS 2nd Quarter	0.47	14.6	43.8	29.2	0.13	0.13	0.21	4.06	39.8

These results apply only to the samples tested.

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Reviewed by: Karen A Secor  
Karen Secor, Soil Lab Supervisor

June 6, 2011

Intermountain Labs, Inc.  
1633 Terra Ave.  
PO Box 661  
Sheridan, WY 82801

Dear Lab:

Enclosed is a quarterly mine waste rock disposal site sample for Canyon Fuel Company – Sufco Mine. Our Purchase Order number is **SU14ZZ-001** to perform toxicity, selenium and boron analysis on this mine waste rock sample.

If you have any question please give me a call at (435) 286-4421.

Sincerely,  
CANYON FUEL COMPANY, LLC  
SUFCO Mine

Michael L. Davis,  
Sr. Environmental Engineer

Encl.

*Rec'd 6/11/11  
Kare A. Secor  
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