C/007/005 Incoming



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JUN 142016

Corey Heaps General Manager HC35, Box 380 Helper, Utah 84526 (435) 448-2619 Fax (435) 448-2632

June 6, 2016

DIV. OF OIL, GAS & MINING

Daron Haddock
Coal Regulatory Program
Utah Division of Oil, Gas, and Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84114-5801

RE: Demonstration of abatement for Citation # 21182, Skyline Mine, Canyon Fuel Company, LLC, C/007/0005

Dear Mr. Haddock,

Abatement actions for Notice of Violation #21182 dated 5/27/2016 are described herein.

On May 18, 2016 at approximately 13:55 Skyline personnel observed discoloration in Eccles Creek. Pumps were shut off immediately. Pump trend records show that pumps were running at an increased flow which dislodged iron built up within pipes leading to Eccles Creek for no more than 10-12 minutes. Initial lab samples were collected at 14:20 on the 18th at sample ID "E. Creek S. Fork," which is the VC-6 permitted sampling site and corresponds with "VC-6" samples from later that day and the 19th. The Total Iron concentration for the May 18th, 14:20 sample was 3.11 mg/L and Total Suspended Solids (TSS) was 45 mg/L. A follow up sample was collected at this same location at 20:00 on the 18th, and contained a Total Iron concentration of 0.78 mg/L and 23 mg/L of TSS. A sample collected at "VC-6" at 11:00 on May 19th, contained a Total Iron concentration of 0.59 mg/L and 21 mg/L of TSS. A sample collected upstream of the mine (CS-11) on May 18th contained 0.73 mg/L of Total Iron and 39 mg/L of TSS. The discolored discharge began to clear up through a combination of the mine water discharge pumps being shut off and typical seasonal flow in Eccles Creek. (Lab reports of water sampling are attached for reference)

Per requirements of Skyline Mine's Utah Pollution Discharge Elimination System (UPDES) permit #UT002345, the Division of Water Quality was verbally notified of the exceedance event within 24 hours. This was followed up, per permit requirements, by a written Notice of Noncompliance report on 5/23/2016 (report attached for reference).

As indicated by sampling data, and the attached Notice of Noncompliance, the iron containing discharge was fully abated within hours of the initial event, at the latest by 20:00 on the 18th. TSS limits of the UPDES permit were never exceeded. Skyline

consulted Division of Wildlife Resources personnel, (Justin Hart, Fisheries Biologist), on June 1st. DWR inspected the creek on the 19th and found no fish mortality, and determined no additional mitigation was needed. Lisa Rinehart, DOGM Biologist, was consulted on June 1st and it was determined that no further mitigation was required. Policies regarding the increasing of flow from the mine have been clarified and implemented to prevent a similar issue from occurring in the future (see section 3.d of the Notice of Noncompliance).

Based on the information provided, and the required actions cited in Citation #21182, Skyline Mine has fulfilled the required abatement items. If you have any questions or if you require additional information, please contact me at (435) 448-2619, Craig Brown – Engineering Manager at (435) 448-2643, Gregg Galecki – Environmental Engineer at (435) 448-2645.

Sincerely,

Corey Heaps

General Manager - Skyline Mine

CC: John Baza - Director

Colex Heaps

Dana Dean - Associate Director

Chris Hansen – Bowie Resources (email)

Craig Brown - CFC (email)

Karl Houskeeper – DOGM Inspector (email)

Attachments: Relevant SGS Water Quality Analysis Reports

5/23/2016 Notice of Noncompliance to Division of Water Quality



June 01, 2016

CANYON FUEL SKYLINE MINES HCR 35 BOX 380 ACCOUNTS PAYABLE HELPER UT 84526

Page 1 of 2

Client Sample ID:

E. CREEK S. FORK

Skyline Mine

Date Sampled:

May 18, 2016

E. CREEK S. FORK

Date Received:

May 19, 2016

GG

Product Description: WATER

Time Sampled: Time Received:

1420 1420

Mine:

21

Field - pH:

8.81 pH

Field - Conductivity:

Sample ID By:

Sample Taken At:

Sample Taken By:

814 umhos/cm

Field - Temperature:

11 Deg. C

Comments:

Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-1636561-004

				REPORTING	ANALYZED		
TESTS	RESULT	UNIT	METHOD	<u>LIMIT</u>	<u>DATE</u>	TIME	<u>ANALYST</u>
Hardness, mg equivalent CaCO3/L	237	mg/L	SM2340-B	1	2016-06-01	07:00:00	HF
Anions		meq/L	SM1030E	0	2016-06-01	07:00:00	
Balance	-0.29	%	SM1030E	-10	2016-06-01	07:00:00	HF
Cations	7.63		SM1030E	0	2016-06-01	07:00:00	HF
Oil and Grease, (HEM)	<5	mg/L	EPA 1664A	5	2016-05-24	09:00:00	MS
Alkalinity, mg CaCO3/L (pH 4.5)		mg/L	SM2320-B	5	2016-05-31	14:00:00	MS
Bicarbonate Alkalinity as CaCO3		mg/L	SM2320-B	5	2016-05-31	14:00:00	MS
Carbonate Alkalinity as CaCO3	<5	mg/L	SM2320-B	5	2016-05-31	14:00:00	MS
Total Dissolved Solids	466	mg/L	SM2540-C	30	2016-05-25	13:00:00	MS
Total Suspended Solids	45	mg/L	SM2540-D	5	2016-05-25	13:00:00	MS
Nitrale + Nitrite as Nitrogen	1.33	mg/L	EPA 300.0	0.05	2016-05-26	17:50:00	HF
Chloride, Cl	15	mg/L	EPA 300.0	1	2016-05-26	17:50:00	HF
Sulfate, SO4	124	mg/L	EPA 300.0	1	2016-05-26	17:50:00	HF
Phosphorus, Total	<0.05	mg/L	SM4500-P E	0.05	2016-05-20	09:00:00	HF
METALS BY ICP							
Calcium, Ca - Dissolved		mg/L	EPA 200.7	0.03	2016-05-19	12:15:00	
Iron, Fe - Total		mg/L	EPA 200.7	0.05	2016-05-20	12:12:05	
Iron, Fe - Dissolved		mg/L	EPA 200.7	0.03	2016-05-19	12:15:00	HF
Magnesium, Mg - Dissolved		mg/L	EPA 200.7	0.01	2016-05-19	12:15:00	HF.
Manganese, Mn - Total	0.038	mg/L	EPA 200.7	0.002	2016-05-20	12:12:05	HF.

Lab Supervisor

Domenic Ibanez
Lab Supervisor

SGS North America Inc.

Minerals Services Division

2035 North Airport Road Huntington UT 84528 t (435) 653-2311 f (435)-653-2436 www.sgs.com/minerals

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June 01, 2016

CANYON FUEL SKYLINE MINES HCR 35 BOX 380 ACCOUNTS PAYABLE HELPER UT 84526

Page 2 of 2

Client Sample ID:

Product Description:

Date Sampled: Date Received:

E. CREEK S. FORK

May 18, 2016 May 19, 2016

WATER

Sample ID By:

Sample Taken At:

Sample Taken By: Time Sampled:

Time Received: Mine:

Field - pH: Field - Conductivity:

Field - Temperature:

Skyline Mine

E. CREEK S. FORK

GG 1420

1420 21

8.81 pH 814 umhos/cm 11 Deg. C

Comments.

Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-1636561-004

TESTS METALS BY ICP (continued)	RESULT	<u>UNIT</u>	METHOD	REPORTING LIMIT	DATE	NALYZED TIME	<u>ANALYST</u>
Potassium, K - Dissolved	4.64	mg/L	EPA 200.7	0.14	2016-05-19	12:15:00	HF
Sodium, Na - Dissolved	63.76	mg/L	EPA 200.7	0.09	2016-05-19	12:15:00	HF

Lab Supervisor

Domenic Ibanez Lab Supervisor

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June 01, 2016

CANYON FUEL SKYLINE MINES HCR 35 BOX 380 ACCOUNTS PAYABLE HELPER UT 84526

Page 1 of 2

Client Sample ID: **CS-11** Sample ID By: Skyline Mine Date Sampled: May 18, 2016 Sample Taken At: **CS-11** Date Received: May 19, 2016 Sample Taken By: GG WATER **Product Description:** Time Sampled: 1830 Time Received: 1420 Mine: 21 Site: 10 Field - pH: 8.54 pH Field - Flow: 792.16 GPM Field - Conductivity: 432 umhos/cm Field - Temperature: 3.9 Deg. C

Comments: Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-1636561-001

				REPORTING		ANALYZED	
<u>TESTS</u>	RESULT	UNIT	METHOD	<u>LIMIT</u>	DATE	TIME	<u>ANALYST</u>
Hardness, mg equivalent CaCO3/L	165	mg/L	SM2340-B	1	2016-06-01	07:00:00	HF
Anions	4.10	meq/L	SM1030E	0	2016-06-01	07:00:00	HF
Balance	-1.35		SM1030E	-10	2016-06-01	07:00:00	
Cations	3.99	meq/L	SM1030E	0	2016-06-01	07:00:00	
Oil and Grease, (HEM)	<5	mg/L	EPA 1664A	5	2016-05-24	09:00:00	MS
Alkalinity, mg CaCO3/L (pH 4.5)	161	mg/L	SM2320-B	5	2016-05-31	14:00:00	
Bicarbonate Alkalinity as CaCO3	161	mg/L	SM2320-B	5	2016-05-31	14:00:00	
Carbonate Alkalinity as CaCO3	<5	mg/L	SM2320-B	5	2016-05-31	14:00:00	
Total Dissolved Solids	267		SM2540-C	30	2016-05-25	13:00:00	
Total Suspended Solids		mg/L	SM2540-D	5	2016-05-25	13:00:00	MS
Nitrate + Nitrite as Nitrogen		mg/L	EPA 300.0	0.05	2016-05-26	17:50:00	
Chloride, Cl	22	mg/L	EPA 300.0	1	2016-05-26	17:50:00	HF
Sulfate, SO4	13	mg/L	EPA 300.0	1	2016-05-26	17:50:00	HF
Phosphorus, Total	<0.05	mg/L	SM4500-P E	0.05	2016-05-20	09:00:00	
METALS BY ICP							
Calcium, Ca - Dissolved	49.14		EPA 200.7	0.03	2016-05-19	12:15:00	HF
Iron, Fe - Total		mg/L	EPA 200.7	0.05	2016-05-20	12:12:05	HF
Iron, Fe - Dissolved	0.08	mg/L	EPA 200.7	0.03	2016-05-19	12:15:00	
				N 6	4		

Domenic Ibanez Lab Supervisor

Lab Supervisor

SGS North America Inc.

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June 01, 2016

CANYON FUEL SKYLINE MINES HCR 35 BOX 380 ACCOUNTS PAYABLE HELPER UT 84526

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Client Sample ID:	CS-11	Sample ID By:	Skyline Mine
Date Sampled:	May 18, 2016	Sample Taken At:	CS-11
Date Received:	May 19, 2016	Sample Taken By:	GG
Product Description:	WATER	Time Sampled:	1830
	J.	Time Received:	1420
)	Mine:	21
		Site:	10
		Field - pH:	8.54 pH
		Field - Flow:	792.16 GPM
		Field - Conductivity:	432 umhos/cm
		Field - Temperature:	3.9 Deg. C

Comments:

Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-1636561-001

				REPORTING	ANALYZED		
TESTS METALS BY ICP (continued)	RESULT	UNIT	METHOD	<u>LIMIT</u>	DATE	TIME	<u>ANALYST</u>
NAME OF THE PARTY	40.00						
Magnesium, Mg - Dissolved	10.30		EPA 200.7	0.01	2016-05-19	12.15.00	HF
Manganese, Mn - Total	0.045	mg/L	EPA 200.7	0.002	2016-05-20	12:12:05	HF
Polassium, K - Dissolved	0.93	mg/L	EPA 200.7	0.14	2016-05-19	12:15:00	HF
Sodium, Na - Dissolved	15.31	mg/L	EPA 200.7	0.09	2016-05-19	12:15:00	HF

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Page 1 of 2

Client Sample ID:

MUD CREEK UP FROM ECCLE

Date Sampled:

Date Received:

Product Description:

May 18, 2016

May 19, 2016

WATER

Sample ID By:

Sample Taken At:

Sample Taken By:

Time Sampled:

Time Received: Mine:

Field - pH:

Field - Flow:

Field - Conductivity:

Field - Temperature:

Skyline Mine

MUD CREEK UP FROM ECCLES

GG

1915

1420 21

7.2 pH

7776.8 GPM 341 umhos/cm

7.2 Deg. C

Comments:

Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-1636561-002

				REPORTING	A	NALYZED	
<u>TESTS</u>	RESULT	UNIT	METHOD	LIMIT	DATE	TIME	<u>ANALYST</u>
Hardness, mg equivalent CaCO3/L		mg/L	SM2340-B	1	2016-06-01	07:00:00	HF
Anions		meq/L	SM1030E	0	2016-06-01	07:00:00	HF
Balance	-0.66	%	SM1030E	-10	2016-06-01	07:00:00	HF
Cations		meq/L	SM1030E	0	2016-06-01	07:00:00	HF
Alkalinity, mg CaCO3/L (pH 4.5)		mg/L	SM2320-B	5	2016-05-31	14:00:00	MS
Bicarbonate Alkalinity as CaCO3	140	mg/L	SM2320-B	5	2016-05-31	14:00:00	MS
Carbonate Alkalinity as CaCO3	<5	mg/L	SM2320-B	5	2016-05-31	14:00:00	MS
Total Dissolved Solids	211	mg/L	SM2540-C	30	2016-05-25	13:00:00	MS
Total Suspended Solids	533	mg/L	SM2540-D	5	2016-05-25	13:00:00	MS
Nitrate + Nitrite as Nitrogen	1.25	mg/L	EPA 300.0	0.05	2016-05-26	17:50:00	HF
Chloride, Cl	8	mg/L	EPA 300.0	1	2016-05-26	17:50:00	HF
Sulfate, SO4	14	mg/L	EPA 300.0	1	2016-05-26	17:50:00	HF
Phosphorus, Total	<0.05	mg/L	SM4500-P E	0.05	2016-05-20	09:00:00	HF
METALS BY ICP							
Calcium, Ca - Dissolved	42.98	mg/L	EPA 200.7	0.03	2016-05-19	12:15:00	HF
Iron, Fe - Total	3.95	mg/L	EPA 200.7	0.05	2016-05-20	12:12:05	HF
Iron, Fe - Dissolved	0.15	mg/L	EPA 200.7	0.03	2016-05-19	12:15:00	HF
Magnesium, Mg - Dissolved	10.55	mg/L	EPA 200.7	0.01	2016-05-19	12:15:00	HF
Manganese, Mn - Total	0.169	mg/L	EPA 200.7	0.002	2016-05-20	12:12:05	HF

Lab Supervisor Domenic Ibanez

Lab Supervisor

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June 01, 2016

CANYON FUEL SKYLINE MINES HCR 35 BOX 380 ACCOUNTS PAYABLE HELPER UT 84526

Page 2 of 2

Client Sample ID:

Date Sampled: Date Received:

Product Description:

MUD CREEK UP FROM ECCLE May 18, 2016

WATER

May 19, 2016

Sample ID By:

Sample Taken At:

Sample Taken By: Time Sampled:

Time Received:

Mine: Field - pH:

Field - Flow: Field - Conductivity:

Field - Temperature:

Skyline Mine

MUD CREEK UP FROM ECCLES

GG 1915

1420 21

7.2 pH 7776.8 GPM 341 umhos/cm

7.2 Deg. C

Comments:

Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-1636561-002

TESTS	RESULT UNIT	METHOD	REPORTING <u>LIMIT</u>	<u>DATE</u>	NALYZED <u>TIME</u>	ANALYST
METALS BY ICP (continued) Polassium, K - Dissolved Sodium, Na - Dissolved	1.03 mg/L	EPA 200.7	0.14	2016-05-19	12:15:00	HF
	5.11 mg/L	EPA 200.7	0.09	2016-05-19	12:15:00	HF

Lab Supervisor Domenic Ibanez

Lab Supervisor

Minerals Services Division SGS North America Inc.

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Page 1 of 2

Sample ID By: VC-6 **Skyline Mine** Client Sample ID: Sample Taken At: VC-6 Date Sampled: May 18, 2016 Sample Taken By: GG Date Received: May 19, 2016 **Product Description:** WATER Time Sampled: 2000 Time Received: 1420 Mine: 21 Site: 15 Field - pH: 8.77 pH Field - Flow: 3208 GPM

Field - Conductivity: 587 umhos/cm
Field - Temperature: 10,1 Deg. C

Comments:

Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-1636561-003

				REPORTING	Α	NALYZED	
<u>TESTS</u>	RESULT	<u>UNIT</u>	METHOD	<u>Limit</u>	DATE	TIME	<u>ANALYST</u>
Hardness, mg equivalent CaCO3/L		mg/L	SM2340-B	1	2016-06-01	07:00:00	
Anions	6.10	meq/L	SM1030E	0	2016-06-01	07:00:00	HF
Balance	0.13	%	SM1030E	-10	2016-06-01	07:00:00	HF
Cations	6.11	meq/L	SM1030E	0	2016-06-01	07:00:00	HF
Alkalinity, mg CaCO3/L (pH 4.5)	223	mg/L	SM2320-B	5	2016-05-31	14:00:00	MS
Bicarbonate Alkalinity as CaCO3	223	mg/L	SM2320-B	5	2016-05-31	14:00:00	MS
Carbonate Alkalinity as CaCO3	<5	mg/L	SM2320-B	5	2016-05-31	14:00:00	MS
Total Dissolved Solids	357	mg/L	SM2540-C	30	2016-05-25	13:00:00	MS
Total Suspended Solids	23	mg/L	SM2540-D	5	2016-05-25	13:00:00	MS
Nitrate + Nitrite as Nitrogen	3.02	mg/L	EPA 300.0	0.05	2016-05-26	17:50:00	HF
Chloride, CI	17	mg/L	EPA 300.0	1	2016-05-26	17:50:00	HF
Sulfate, SO4	55	mg/L	EPA 300.0	1	2016-05-26	17:50:00	HF
Phosphorus, Total	<0.05	mg/L	SM4500-P E	0.05	2016-05-20	09:00:00	HF
METALS BY ICP							
Calcium, Ca - Dissolved		mg/L	EPA 200.7	0.03	2016-05-19	12:15:00	HF
Iron, Fe - Total		mg/L	EPA 200.7	0.05	2016-05-20	12:12:05	HF
Iron, Fe - Dissolved		mg/L	EPA 200.7	0.03	2016-05-19	12:15:00	HF
Magnesium, Mg - Dissolved	25.26	mg/L	EPA 200.7	0.01	2016-05-19	12:15:00	HF
<u> </u>				1			

Domenic Ibanez Lab Supervisor

Lab Supervisor

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June 01, 2016

CANYON FUEL SKYLINE MINES HCR 35 BOX 380 **ACCOUNTS PAYABLE** HELPER UT 84526

Page 2 of 2

Client Sample ID:

VC-6

Date Sampled:

May 18, 2016

Date Received: **Product Description:** May 19, 2016

WATER

Sample ID By:

Skyline Mine

Sample Taken At: Sample Taken By: VC-6 GG

Time Sampled: Time Received: 2000 1420

Mine:

21

Site: Field - pH:

15 8.77 pH

Field - Flow:

3208 GPM

Field - Conductivity: Field - Temperature:

587 umhos/cm 10.1 Deg. C

Comments:

Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-1636561-003

			REPORTING	A	NALYZED	
<u>TESTS</u>	<u>RESULT UNIT</u>	METHOD	LIMIT	DATE	TIME A	NALYST
METALS BY ICP (continued)						
Manganese, Mn - Total	0.030 mg/L	EPA 200.7	0.002	2016-05-20	12:12:05	HF
Potassium, K - Dissolved	3.88 mg/L	EPA 200.7	0.14	2016-05-19	12:15:00	HF
Sodium, Na - Dissolved	20.03 mg/L	EPA 200.7	0.09	2016-05-19	12:15:00	HF

Lab Supervisor

Domenic Ibanez Lab Supervisor

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CANYON FUEL SKYLINE MINES HCR 35 BOX 380 ACCOUNTS PAYABLE HELPER UT 84526

Page 1 of 2

Client Sample ID:

VC-6

Date Sampled:

May 19, 2016

Date Received: **Product Description:**

WATER

May 19, 2016

Sample ID By:

Sample Taken At:

Sample Taken By: Time Sampled:

Time Received: Mine:

Site: Field - pH:

Field - Flow:

Skyline Mine

VC-6 GG 1100 1420

21 15

> 8.86 pH 1687 GPM

Field - Conductivity:

595 umhos/cm

Comments:

Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-1636561-005

				REPORTING	ANALYZED		
<u>TESTS</u>	RESULT	<u>UNIT</u>	METHOD	<u>LIMIT</u>	DATE	TIME	ANALYST
Hardness, mg equivalent CaCO3/L		mg/L	SM2340-B	1	2016-06-01	07:00:00	HF
Anions	5.23	meq/L	SM1030E	0	2016-06-01	07:00:00	HF
Balance	2.28	%	SM1030E	-10	2016-06-01	07:00:00	HF
Cations	5.47	meq/L	SM1030E	0	2016-06-01	07:00:00	HF
Oil and Grease, (HEM)	<5	mg/L	EPA 1664A	5	2016-05-24	09:00:00	MS
Alkalinity, mg CaCO3/L (pH 4.5)	192	mg/L	SM2320-B	5	2016-05-31	14:00:00	MS
Bicarbonate Alkalinity as CaCO3	192	mg/L	SM2320-B	5	2016-05-31	14:00:00	MS
Carbonate Alkalinity as CaCO3	<5	mg/L	SM2320-B	5	2016-05-31	14:00:00	MS
Total Dissolved Solids	322	mg/L	SM2540-C	30	2016-05-25	13:00:00	MS
Total Suspended Solids	21	mg/L	SM2540-D	5	2016-05-25	13:00:00	MS
Nitrate + Nitrite as Nitrogen	3.37	mg/L	EPA 300.0	0.05	2016-05-26	17:50:00	HF
Chloride, Cl	24	mg/L	EPA 300.0	1	2016-05-26	17:50:00	HF
Sulfate, SO4	34	mg/L	EPA 300.0	1	2016-05-26	17:50:00	HF
Phosphorus, Total	<0.05	mg/L	SM4500-P E	0.05	2016-05-20	09:00:00	HF
METALS BY ICP							
Calcium, Ca - Dissolved		mg/L	EPA 200.7	0.03	2016-05-19	12:15:00	
Iron, Fe - Total	0.59	mg/L	EPA 200.7	0.05	2016-05-20	12:12:05	HF
Iron, Fe - Dissolved		mg/L	EPA 200.7	0.03	2016-05-19	12:15:00	HF
Magnesium, Mg - Dissolved	20.48	mg/L	EPA 200.7	0.01	2016-05-19	12:15:00	HF

Domenic Ibanez Lab Supervisor

Lab Supervisor

SGS North America Inc.

Minerals Services Division

2035 North Airport Road Huntington UT 84528 t (435) 653-2311 f (435)-653-2436 www.sgs.com/minerals

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June 01, 2016

CANYON FUEL SKYLINE MINES HCR 35 BOX 380 ACCOUNTS PAYABLE HELPER UT 84526

Page 2 of 2

Client Sample ID:	VC-6	Sample ID By:	Skyline Mine
Date Sampled:	May 19, 2016	Sample Taken At:	VC-6
Date Received:	May 19, 2016	Sample Taken By:	GG
Product Description:	WATER	Time Sampled:	1100
)	Time Received:	1420
	Υ.	Mine:	21
	L.	Site:	15
		Field - pH:	8.86 pH

Field - Flow: Field - Conductivity: 1687 GPM 595 umhos/cm

Comments:

Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-1636561-005

			REPORTING	A	NALYZED	
<u>TESTS</u>	<u>RESULT UNIT</u>	METHOD	<u>LIMIT</u>	DATE	TIME	<u>ANALYST</u>
METALS BY ICP (continued)						
Manganese, Mn - Total	0.041 mg/L	EPA 200.7	0.002	2016-05-20	12:12:05	HF
Potassium, K - Dissolved	3.08 mg/L	EPA 200.7	0.14	2016-05-19	12:15:00	HF
Sodium, Na - Dissolved	20.43 mg/L	EPA 200.7	0.09	2016-05-19	12:15:00	HF

Lab Supervisor

Domenic Ibanez

Lab Supervisor

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Skyline hline

Gregg A. Galecki, Environmental Engineer HC35, 80x 380 Helper, Utah 84526 (435) 448-2535 Fax: (435) 448-2632

May 23, 2016

Mr. Ken Hoffman, P.E.
Permits and Compliance Section
Department of Environmental Quality
Division of Water Quality
288 North 1460 West
Salt Lake City, Utah 84114-4870

RE: Notice of Noncompliance Report, Canyon Fuel Company, LLC., Skyline Mine, UPDES Permit UT0023540

Mr. Hoffman:

In follow up to our telephone conversation on May 18, 2016, the following is written documentation of the Noncompliance event that occurred at the Skyline Mine on May 18, 2016. The documentation follows Part II. I. 3. of the Skyline Mine Permit No. UT0023540.

- 3.a. Description of Noncompliance and its cause; a volume of mine water containing iron was discharged from Discharge Point UPDES 001 into Eccles Creek. The steel pipe carrying the water apparently contained some residual iron/rust that was not completely flushed out of the pipe prior to discharging. The total estimate of iron loading to the stream was calculated to be 0.48 pounds based on the estimated discharge volume and water quality lab analysis.
- **3.b.c.The period of noncompliance**; on May 18, 2016, starting at approximately 13:45 and ending within 10 to 12 minutes. The water was discharging at approximately 1,550 gallons per minute. Personnel were stationed at the outfall and the discharge was turned off as soon as the water containing iron was observed. This was an isolated event.
- 3.d. Steps taken to prevent a reoccurrence of the noncompliance; an in-house investigation of the personnel involved in the incident was conducted within two days of the occurrence. The 'taproot' investigation of the incident determined: 1) All pipe sections will be thoroughly cleaned/back-flushed prior to being put into service; 2) the discharge line/pipe will be tested in its entirety prior to discharging to the creek; 3) personnel will be positioned at the outfall during initial discharge; and 4) if water containing iron is observed, personnel manning the outfall will divert the water into the sediment pond while the water is in the process of being turned off.
- 3.e Steps taken to mitigate the adverse impacts during the noncompliance period; 1)
 Although tested prior to discharge, the flow was terminated as soon as the total iron was observed;
 2) the approximate total discharge was calculated through the in-line flow meter and estimating the time of discharge between 10-12 minutes; 3) water quality samples of the discharge were collected as soon as possible (lab analysis indicated a total iron concentration of 3.11 mg/l); 4) photo documentation of the event were collected (see attached photos); 5) additional water quality samples were collected upstream and downstream of the outfall following the occurrence both the same day and following days; and 6) visual observations of the creek, looking for signs of environmental impact were conducted daily for five (5) days following the discharge (no impacts were observed).

In addition, Utah Division of Oil, Gas, & Mining (UDOGM) personnel Dana Dean (Associate Director) and Daron Haddock (Program Manager) were contacted and informed of the

noncompliance within 24-hours of the event. Also within 24-hours of the occurrence, the site was visited by UDOGM inspector Karl Houskeeper and US Forest Service personnel Jeff Salow. The attached photos illustrate the during-and-after stream flows. The photo locations are approximately ½ mile downstream of the UPDES-001 Outfall. This location was chosen because it is the location where the initial water quality sample was collected. The water containing iron moved so quickly downstream, that within 20-minutes of the discharge being turned off, the water sample needed to be collected downstream of the Outfall to capture the event.

If you have any questions or require additional information, please contact me at (435) 448-2636, or Craig Brown – Engineering Manager at (435) 448-2643.

Sincerely:

Sugg A. Awhehi.
Gregg A. Galecki

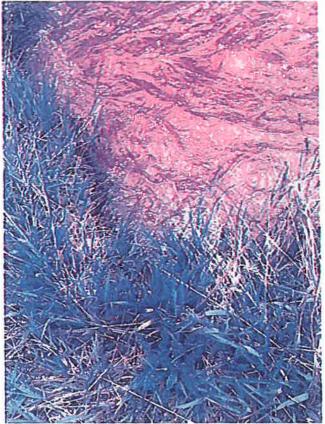
Canyon Fuel Company, LLC.

Environmental Engineer - Skyline Mines

Attachments: photographs, water quality lab analysis

Cc: Cor

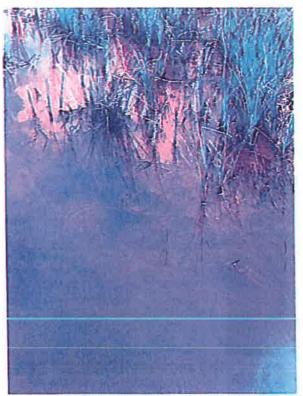
Corey Heaps – CFC (email) Craig Brown – CFC (email) Chris Hansen – CFC (email) Kim Shelly – DWQ (email)



Eccles Creek @ water quality sample site ~ 20-mintes after sample was collected (5/18/16 @14:39)



Eccles Creek @ water quality sample site (5/19/16 @ 14:55) Note: water is slightly turbid due to recent rain and snow-melt events



Eccles Creek @ S. Fork; calm pool with residual iron approximately 1.5 hours after event (5/18/16 @ 15:22)



Eccles Creek @ S. Fork; same pool cleared of residual iron (5/19/16 @ 14:58) Note: water is slightly turbid due to recent rain and snow-melt events