



State of Utah

GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

Department of  
Environmental Quality

Alan Matheson  
Executive Director

DIVISION OF WATER QUALITY  
Walter L. Baker, P.E.  
Director

C/007/039 Incoming  
cc: Steve C.  
Karl

RECEIVED

NOV 23 2015

DIV. OF OIL, GAS & MINING

NOV 20 2015

CERTIFIED MAIL

(Return Receipt Requested)

Mr. Kirt Tatton, General Manager  
Canyon Fuel Company, LLC – Dugout Canyon Mine  
P.O. Box 1029  
Wellington, UT 84542

Subject: UPDES Inspection – Dugout Canyon Mine (UT0025593).

Dear Mr. Tatton:

On September 9, 2015 I completed a Compliance Evaluation Inspection (CEI) of Dugout Canyon Mine. Enclosed is a report of that inspection. One deficiency and one requirement were noted in the report. A “deficiency” is non-compliance with UPDES permit requirement(s) or associated regulations and a “requirement” does not mean non-compliance but rather actions we would like completed. Please respond to these “deficiencies and requirements” within thirty days of receipt of this inspection report.

If you have any questions, please contact me at (801) 536-4386 or by e-mail at [mherkimer@utah.gov](mailto:mherkimer@utah.gov).

Sincerely,

Mike Herkimer, Environmental Scientist  
UPDES Surface Water Section

KM:MH:nf

- Enclosures (7)
1. 3560 form (DWQ-2015-013116)
  2. SW 3560 form (DWQ-2015-013117)
  3. Inspection report (DWQ-2015-013118)
  4. CEI Checklist (DWQ-2015-013119)
  5. Photo log (DWQ-2015-013120)
  6. Checklist calculations, company summary sheets, DMR submitted (DWQ-2015-013121)
  7. Laboratory raw data sheets from ACZ (DWQ-2015-013122)

cc (w/encl): Brady Bradford, SE District Health Department (w/o encl)  
Dave Ariotti, SE District Engineer (w/o encl)  
Daron Haddock, Division of Oil Gas & Mining (w encl)

DWQ-2015-013115  
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United States Environmental Protection Agency  
Washington, D.C. 20460

# Water Compliance Inspection Report

## Section A: National Data System Coding (i.e., ICIS)

Transaction Code [N] [ ] 1 2	NPDES [U][T][0][0][2][5][5][9][3] 3 11	yr/mo/day [1][5][0][9][0][9] 12 17	Inspection Type [C] 18	Inspector [S] 19	Fac. Type [2] 20
Remarks					
21					
Inspection Work Days [ ] [2] [ ] 67 69	Facility Self-Monitoring Evaluation Rating [ ] [4] [ ] 70	BI [D] 71	QA [N] 72	Reserved [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] 73 74 75 80	

## Section B: Facility Data

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number) Canyon Fuel Company, LLC - Dugout Canyon Mine Physical location: 5719 N. Dugout Canyon Road, Wellington, Utah 84542	Entry Time/ Date 11:30 am 9-9-2015	Permit Effective Date 9-1-2015
	Exit Time/ Date 4:30 pm 9-9-2015	Permit Expiration Date 8-31-2020
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) Bill King, Environmental Engineer 435-636-2898 Dave Spillman, Manager of Technical Services 435-636-2872	Other Facility Data (e.g., SIC NAICS, and other descriptive information) Bituminous Coal Underground Mining Facility SIC Code 1222 NAICS 212112  SEE ATTACHED	
Name, Address of Responsible Official/Title/Phone and Fax Number Mr. Kirt Tatton, General Manager Dugout Canyon Mine P.O. Box 1029 Wellington, Utah 84542 435-636-2899	Contacted <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

## Section C: Areas Evaluated During Inspection (Check only those areas evaluated)

<input checked="" type="checkbox"/> Permit	<input checked="" type="checkbox"/> Self Monitoring Program	<input type="checkbox"/> Pretreatment	<input type="checkbox"/> MS4
<input checked="" type="checkbox"/> Records/Reports	<input type="checkbox"/> Compliance Schedule	<input type="checkbox"/> Pollution Prevention	
<input checked="" type="checkbox"/> Facility Site Review	<input type="checkbox"/> Laboratory	<input type="checkbox"/> Storm Water	
<input checked="" type="checkbox"/> Effluent/Receiving Waters	<input type="checkbox"/> Operations & Maintenance	<input type="checkbox"/> Combined Sewer Overflow	
<input checked="" type="checkbox"/> Flow Measurement	<input type="checkbox"/> Sludge Handling/Disposal	<input type="checkbox"/> Sanitary Sewer Overflow	

## Section D: Summary of Findings/Comments

(Attach additional sheets of narrative and checklists, including Single Event Violation codes, as necessary)

SEV Codes [C][0][0][1][4] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	SEV Description Invalid/Unrepresentative Sample - Holding Time Vio. _____ _____ _____
---	---

Name(s) and Signature(s) of Inspector(s) Mike Herkimer, Environmental Scientist 	Agency/Office/Phone and Fax Number(s) DWQ (801) 536-4386	Date: 11/19/15
N/A		
Name and Signature of Management Q A Reviewer Kim Shelley, Manager Surface Water Section 	Agency/Office/Phone and Fax Number(s) DWQ (801) 536-4385	Date: 11/19/15

## INSTRUCTIONS

### Section A: National Data System Coding (*i.e.*, ICIS)

**Column 1: Transaction Code:** Use N, C, or D for New, Change, or Delete. All inspections will be *new* unless there is an error in the data entered.

**Columns 3-11: NPDES Permit No.** Enter the facility's NPDES permit number - third character in permit number indicates permit type for U=unpermitted, G=general permit, etc. (*Use the Remarks columns to record the State permit number, if necessary.*)

**Columns 12-17: Inspection Date.** Insert the date entry was made into the facility. Use the year/month/day format (e.g., 04/10/01 = October 01, 2004).

**Column 18: Inspection Type\*.** Use one of the codes listed below to describe the type of inspection:

A	Performance Audit	X	Toxics Inspection	6	IU Non-Sampling Inspection with Pretreatment
B	Compliance Biomonitoring	Z	Sludge - Biosolids	7	IU Toxics with Pretreatment
C	Compliance Evaluation (non-sampling)	#	Combined Sewer Overflow-Sampling	!	Pretreatment Compliance (Oversight)@ Follow-up (enforcement)
D	Diagnostic	\$	Combined Sewer Overflow-Non-Sampling	{	Storm Water-Construction-Sampling
F	Pretreatment (Follow-up)	+	Sanitary Sewer Overflow-Sampling	}	Storm Water-Construction-Non-Sampling
G	Pretreatment (Audit)	&	Sanitary Sewer Overflow-Non-Sampling	:	Storm Water-Non-Construction-Sampling
I	Industrial User (IU) Inspection	\	CAFO-Sampling	~	Storm Water-Non-Construction-Non-Sampling
J	Complaints	=	CAFO-Non-Sampling	<	Storm Water-MS4-Sampling
M	Multimedia	2	IU Sampling Inspection	-	Storm Water-MS4-Non-Sampling
N	Spill	3	IU Non-Sampling Inspection	>	Storm Water-MS4-Audit
O	Compliance Evaluation (Oversight)	4	IU Toxics Inspection		
P	Pretreatment Compliance Inspection	5	IU Sampling Inspection with Pretreatment		
R	Reconnaissance				
S	Compliance Sampling				
U	IU Inspection with Pretreatment Audit				

**Column 19: Inspector Code.** Use one of the codes listed below to describe the *lead agency* in the inspection.

A-	State (Contractor)	O-	Other Inspectors, Federal/EPA (Specify in Remarks columns)
B-	EPA (Contractor)	P-	Other Inspectors, State (Specify in Remarks columns)
E-	Corps of Engineers	R-	EPA Regional Inspector
J-	Joint EPA/State Inspectors—EPA Lead	S-	State Inspector
L-	Local Health Department (State)	T-	Joint State/EPA Inspectors—State lead
N-	NEIC Inspectors		

**Column 20: Facility Type.** Use one of the codes below to describe the facility.

- 1- Municipal. Publicly Owned Treatment Works (POTWs) with 1987 Standard Industrial Code (SIC) 4952.
- 2- Industrial. Other than municipal, agricultural, and Federal facilities.
- 3- Agricultural. Facilities classified with 1987 SIC 0111 to 0971.
- 4- Federal. Facilities identified as Federal by the EPA Regional Office.
- 5- Oil & Gas. Facilities classified with 1987 SIC 1311 to 1389.

**Columns 21-66: Remarks.** These columns are reserved for remarks at the discretion of the Region.

**Columns 67-69: Inspection Work Days.** Estimate the total work effort (to the nearest 0.1 work day), up to 99.9 days, that were used to complete the inspection and submit a QA reviewed report of findings. This estimate includes the accumulative effort of all participating inspectors; any effort for laboratory analyses, testing, and remote sensing; and the billed payroll time for travel and pre and post inspection preparation. This estimate does not require detailed documentation.

**Column 70: Facility Evaluation Rating.** Use information gathered during the inspection (regardless of inspection type) to evaluate the quality of the facility self-monitoring program. Grade the program using a scale of 1 to 5 with a score of 5 being used for very reliable self-monitoring programs, 3 being satisfactory, and 1 being used for very unreliable programs.

**Column 71: Biomonitoring Information.** Enter D for static testing. Enter F for flow through testing. Enter N for no biomonitoring.

**Column 72: Quality Assurance Data Inspection.** Enter Q if the inspection was conducted as follow-up on quality assurance sample results. Enter N otherwise.

**Columns 73-80:** These columns are reserved for regionally defined information.

### Section B: Facility Data

This section is self-explanatory except for "Other Facility Data," which may include new information not in the permit or PCS (e.g., new outfalls, names of receiving waters, new ownership, other updates to the record, SIC/NAICS Codes, Latitude/Longitude).

### Section C: Areas Evaluated During Inspection

Check only those areas evaluated by marking the appropriate box. Use Section D and additional sheets as necessary. Support the findings, as necessary, in a brief narrative report. Use the headings given on the report form (e.g., Permit, Records/Reports) when discussing the areas evaluated during the inspection.

### Section D: Summary of Findings/Comments

Briefly summarize the inspection findings. This summary should abstract the pertinent inspection findings, not replace the narrative report. Reference a list of attachments, such as completed checklists taken from the NPDES Compliance Inspection Manuals and pretreatment guidance documents, including effluent data when sampling has been done. Use extra sheets as necessary.

\*Footnote: In addition to the inspection types listed above under column 18, a state may continue to use the following wet weather and CAFO inspection types until the state is brought into ICIS-NPDES: K: CAFO, V: SSO, Y: CSO, W: Storm Water 9: MS4. States may also use the new wet weather, CAFO and MS4 inspections types shown in column 18 of this form. The EPA regions are required to use the new wet weather, CAFO, and MS4 inspection types for inspections with an inspection date (DTIN) on or after July 1, 2005.



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<p style="text-align: center;"><b>Contacted</b></p> <p style="text-align: center;"> <input type="checkbox"/> Yes    <input checked="" type="checkbox"/> No       </p>		

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[ ] [ ] [ ] [ ] [ ] [ ]	_____
[ ] [ ] [ ] [ ] [ ] [ ]	_____
[ ] [ ] [ ] [ ] [ ] [ ]	_____
[ ] [ ] [ ] [ ] [ ] [ ]	_____

Name(s) and Signature(s) of Inspector(s) Mike Herkimer, Environmental Scientist 	Agency/Office/Phone and Fax Number(s) DWQ (801) 536-4386	Date: 11/19/15
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## INSPECTION PROTOCOL

UPDES Permit #: UT0025593 – Canyon Fuel company, LLC – Dugout Canyon Mine

Inspection Type: Compliance Evaluation Inspection (CEI) + Storm Water Inspection

Inspection Date: September 9, 2015

Mike Herkimer of the Division of Water Quality (DWQ) met with Dave Spillman and Bill King from Dugout Canyon Mine (Dugout). The purpose and scope of the inspection were explained, CEI checklist was completed and storm water requirements were discussed. A brief facility tour was completed.

## FACILITY DESCRIPTION

Location: Dugout is an active underground coal mining operation located approximately 12 to 13 miles northeast of Wellington, Utah in Dugout Canyon off Nine Mile Canyon Road. The mailing address is:

Dugout Canyon Mine

P.O. Box 1029

Wellington, Utah 84542

### Discharge points:

<u>Outfall Number</u>	<u>Location of Discharge Point(s)</u>
001	Mine water discharge to Dugout Creek, latitude 39° 41' 01", longitude 110° 32' 44".
002	Sedimentation pond discharge to Dugout Creek, latitude 39° 40' 56", longitude 110° 32' 52".
003	Storage water discharge to Dugout Creek, latitude 39° 41' 18", longitude 110° 32' 29".
004	Sedimentation pond (waste rock site) discharge to unknown tributary of Grassy Trail Creek, latitude 39° 36' 40", longitude 110° 36' 43".
005	Pace Canyon fan portal breakout, mine water discharge to Pace Creek, latitude 39° 40' 17.772", longitude 110° 30' 29.051".

- 006 Sediment trap culvert discharge to Pace Creek, latitude 39° 40' 14.3553", longitude 110°30' 32.3161".
- 007 Sedimentation pond (waste rock site) discharge to unknown tributary of Grassy Trail Creek, latitude 39° 36' 42", longitude 110° 36' 39".

Design capacity for Outfall 001: 2.0 million gallons per day (MGD).

Receiving Waters:

Dugout Creek is the receiving water for outfalls 001, 002, and 003. An unnamed tributary to Grassy Trail Creek is the receiving water for outfalls 004 and 007, while outfalls 005 and 006 discharge to Pace Canyon Creek. The classifications for these receiving waters are as follows:

- Class 2B - protected for secondary contact recreation such as boating, wading, or similar uses.
- Class 3C - protected for nongame fish and other aquatic life, including the necessary aquatic organisms in their food chain.
- Class 4 - protected for agricultural uses including irrigation of crops and stock watering.

**INSPECTION SUMMARY**

Effluent & Flow Measurement: Mine discharges (outfalls 001 and 005) are measured by using in-line flow meters. Several in-line flow meters are used underground in the mines. Data from the in-line flow meters are logged into a database, which is available for inspection if so desired. This database is used to report flows from the mine discharge. The inspector did not review the flow database for outfall 001. These multiple in-line flow meters are used to check one another. When flows are not properly adding up, the meters are re-calibrated by the manufacturer.

Flow at sedimentation ponds (all other outfalls) is calculated twice per month. The ponds are not gravity decanted, but are pumped. The ponds are pumped/decanted in anticipation of storm events and the present water level of the ponds. When the ponds are pumped the surface level is noted and through use in this water level change and stage capacity curves a volume is calculated over the time a discharge occurs. This flow calculation for the days of the month in which flow occurs is used to calculate data entered on the monthly DMR.

Permit and Record Keeping: The discharge monitoring report (DMR) for June of 2015 was reviewed in depth to determine if the DMR was prepared properly. Holding time for total suspended solids was not met on the June 8<sup>th</sup> samples taken at outfalls 001 and 003. There is some calculation difference for TDS 30 day average for outfalls 001 and 003 and

for TSS 30 day average at outfall 003. This is not of major importance as these values are not close to the effluent limits.

Storm Water: Please make sure that the storm water pollution prevention plan has been updated and is current with the conditions at the mine.

### **DEFICIENCIES**

1. Exceeded holding time for total suspended solids on the June 8<sup>th</sup> sample at outfalls 001 and 003.

### **CORRECTIVE ACTION**

1. Please explain why the holding times were exceeded and what Dugout will do to prevent this from happening again.

### **REQUIREMENTS:**

There are some differences between the calculations entered on the DMR and those completed by the inspector. Please review the data calculation sheets and either confirm the inspector's calculations or why they are incorrect. If the June 2015 DMR has incorrect values for the averages please amend the DMR and re-submit it with the correct values. Contact the inspector as necessary.

### **LIST OF ATTACHEMENTS (appended to this narrative report and 3560-3 form)**

- State checklist
- Photo log
- Checklist data tables with associated attachments (DMR calculations, data summary sheets for Dugout, and June 2015 DMR)
- Raw data lab sheets from ACZ.



Photo #1: Outfall 002 at Dugout



Photo #2: Discharge from outfall 001 (mine water) at Dugout



Photo #3: Discharge from Outfall 003 at Dugout



Photo#4: pH conductivity and temperature meters at Dugout.

USEPA REGION 8 NPDES LAGOON INSPECTION CHECKLIST

NPDES PERMIT #: UT0025593

INSPECTION DATE: 9/19/15

FACILITY: CFC - Dugout Canyon Mine

I. PERMIT VERIFICATION

- | YES                              | NO | N/A                                  | Inspection observations verify information contained in permit.  |
|----------------------------------|----|--------------------------------------|--|
| <input checked="" type="radio"/> | No | N/A                                  | 1. Current copy of permit on site.   |
| <input checked="" type="radio"/> | No | N/A                                  | 2. Name, mailing address, contact, and phone number are correct in <sup>ICES</sup> <del>PCS</del> . If not, indicate correct information on Form 3560. |
|                                  |    |                                      | 3. Brief description of the <del>wastewater treatment plant:</del> <sup>process water system</sup>   |
|                                  |    |                                      | <u>Sedimentation ponds on surface &amp; underground.</u>   |
|                                  |    |                                      | <u>Underground treatment for iron.</u>   |
| <input checked="" type="radio"/> | No | N/A                                  | 4. Facility is as described in permit. If not, what is different? _____  |
|                                  | No | <input checked="" type="radio"/> N/A | 5. EPA/State has been notified of any new, different, or increased loading to the WWTP.  |
| <input checked="" type="radio"/> | No | N/A                                  | 6. Number and location of discharge points are as described in the permit.   |
| <input checked="" type="radio"/> | No | N/A                                  | 7. Name of receiving water(s) is/are correct. <u>Dugout Creek &amp; Place Creek.</u><br><u>Unnamed tributaries of</u><br><u>Grassy Trail Creek.</u>    |

Comments:

II. RECORDKEEPING AND REPORTING EVALUATION

- | YES                              | NO | N/A | Records and reports are maintained as required by permit.                            |
|----------------------------------|----|-----|--|
| <input checked="" type="radio"/> | No | N/A | 1. All required information is current, complete, and reasonably available.          |
| <input checked="" type="radio"/> | No | N/A | 2. Information is maintained for the required 3 year period.                         |
|                                  | No | N/A | 3. Sampling and analysis data are adequate and <u>include:</u>                       |
| <input checked="" type="radio"/> | No | N/A | a. Dates, times, locations of sampling.  |
| <input checked="" type="radio"/> | No | N/A | b. Initials of individual performing sampling.                                       |
| <input checked="" type="radio"/> | No | N/A | c. Referenced analytical methods and techniques in conformance with 40 CFR Part 136. |
| <input checked="" type="radio"/> | No | N/A | d. Results of analyses and calibration.  |
| <input checked="" type="radio"/> | No | N/A | e. Dates of analyses (and times if required by permit).                              |
| <input checked="" type="radio"/> | No | N/A | f. Initials of person performing analyses.   |
| <input checked="" type="radio"/> | No | N/A | g. Instantaneous flow at grab sample stations.                                       |

- Yes  No  N/A 4. Sampling and analysis completed on parameters specified in permit.
- Yes  No  N/A 5. Sampling and analysis done in frequency specified by permit.
- Yes  No  N/A 6. ~~Lagoon~~ <sup>Pond</sup> inspection logs are being completed at the frequency specified by permit.

Comments:

**YES NO N/A DMR completion meets the self-monitoring reporting requirements.**

- Yes  No  N/A 1. Monitoring for required parameters is performed more frequently than required by permit. Parameter(s) \_\_\_\_\_
- Yes  No  N/A 2. Analytical results are consistent with the data reported on the DMRs.
- Yes  No  N/A 3. All data collected are summarized on the DMR.
- Yes  No  N/A 4. Monthly, weekly, and/or daily average loading values are calculated properly and reported on the DMR. (Effluent loadings are calculated using effluent flow.)
- Yes  No  N/A 5. The geometric mean is calculated and recorded for fecal coliform data.
- Yes  No  N/A 6. Weekly and monthly averaging is calculated properly and reported on the DMR.
- Yes  No  N/A 7. The maximum and minimum values of all data points are reported properly.
- Yes  No  N/A 8. The number of exceedances column (No. Ex.) is completed properly.

Comments:

**III. COLLECTION SYSTEM *NA***

- YES NO N/A Collection system properly maintained.**
- Yes  No  N/A 1. Collection system is (check one):  
 Combined  
 Separate  
 Both
  - Yes  No  N/A 2. Procedures for sewer cleaning, including preventive maintenance schedules, are established and performed on time.
  - Yes  No  N/A 3. Sewer backups into basements occur during high flows. If yes, specify dates and briefly describe circumstances: \_\_\_\_\_
  - Yes  No  N/A 4. Manholes overflow during high flows. If yes, specify dates and briefly describe, including total volumes of each event and receiving waters: \_\_\_\_\_

Yes No N/A

5. Bypasses have occurred from the collection system, including lift stations, in the last five years. If yes, specify dates and briefly describe, including total volumes of each event and receiving waters: \_\_\_\_\_

Yes No N/A

6. The community has a sump pump ordinance.

Yes No N/A

7. Testing for inflow/infiltration has occurred in the last five years.

Yes No N/A

8. Sources of inflow/infiltration have been identified. If yes, please describe: \_\_\_\_\_

Yes No N/A

9. Measures are being taken to correct inflow/infiltration problems. If yes, please describe: \_\_\_\_\_

Yes No N/A

10. The collection system, or portions of it, have been upgraded since the last inspection. If yes, please describe: \_\_\_\_\_

Comments:

IV. FACILITY SITE REVIEW

YES NO N/A

Treatment facility properly operated and maintained.

Yes No N/A

1. Standby power or other equivalent provision is provided. Specify type: \_\_\_\_\_

Yes No N/A

2. Facility has an alarm system for power or equipment failures. What kind of problems has the facility experienced due to power failures? \_\_\_\_\_

Yes No N/A

3. Treatment control procedures are established for emergencies.

Yes No N/A

4. Facility can be by-passed (internal, collection system, total). Describe by-pass procedures: \_\_\_\_\_

Yes No N/A

5. Regulatory agency was notified of any bypassing (treated and/or untreated).

Dates: \_\_\_\_\_

Yes No N/A

*Process water system*

6. ~~WWTP~~ has adequate capacity to ensure against hydraulic ~~and/or organic~~ overloads.

- Yes No N/A 7. All treatment units, other than back-up units, are in service. If not, what and why?  
\_\_\_\_\_
- Yes No N/A 8. O&M manual available and up-to-date.
- Yes No N/A 9. Procedures for plant O&M, including preventive maintenance schedules, are established and performed on time.
- Yes No N/A 10. Adequate spare parts and supplies inventory (including flow meters) are maintained, as well as major equipment specifications and/or repair manuals.
- Yes No N/A 11. Up-to-date maintenance and repair records are kept ~~for major pieces of equipment.~~
- Yes No N/A 12. Seal panel Lagoon is being properly maintained.  
 a. Locks, gates, fences, and sign are intact.  
 b. Vegetation is mowed on the inside, outside slopes and top of dikes.  
 c. Outside toe of dikes show no evidence of seepage and/or rodent damage.  
 d. Inside slopes of dikes show no evidence of erosion and/or rodent damage.  
 e. Cattails and/or bushes and/or trees are not growing in the lagoons.
- Yes No N/A 13. Number of qualified operators and staff.  
NA  
 How many? Certification Level  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
- Yes No N/A 14. Certification level meets State requirement?
- Yes No N/A 15. What procedures or practices are used to train new employees operators? task training (O&M)

Comments:

**V. SAFETY EVALUATION**

- YES NO N/A Facility has the necessary safety equipment.**
- Yes No N/A 1. Procedures are established for identifying out-of-service equipment. What are they?  
Lock out / tag out
- Yes No N/A 2. Personal protective clothing provided (safety helmets, ear protectors, goggles, gloves, rubber boots with steel toes, eye washes in labs).
- Yes No N/A 3. Laboratory safety devices (eyewash and shower, fume hood, proper labeling and storage, pipette suction bulbs) available.
- Yes No N/A 4. Plant has general safety structures such as rails around or covers over tanks, pits, or

wells. Plant is enclosed by a fence.

Yes No N/A

5. Portable hoists for equipment removal available.

Yes No N/A

6. All electrical circuitry enclosed and identified.

Yes No N/A

7. Chlorine safety is adequate and includes:

Yes No N/A

a. NIOSH-approved 30-minute air pack.

Yes No N/A

b. All standing chlorine cylinders chained in place.

Yes No N/A

c. All personnel trained in the use of chlorine.

Yes No N/A

d. Chlorine repair kit.

Yes No N/A

e. Chlorine leak detector tied into plant alarm system.

Yes No N/A

f. Ventilation fan with an outside switch.

g. Posted safety precautions.

Yes No N/A

8. Warning signs (no smoking, high voltage, nonpotable water, chlorine hazard, watch-your-step, and exit) posted.

Yes No N/A

9. Gas/explosion controls such as pressure-vacuum relief valves, no smoking signs, explosimeters, and drip traps present near anaerobic digesters, enclosed screening or degreasing chambers, and sludge-piping or gas-piping structures.

Yes No N/A

10. Emergency phone numbers listed.

Yes No N/A

11. Plant is generally clean, free from open trash areas.

Yes No N/A

12. MSDS sheets, if required, are accessible by employees.

*+ hot line.*

Comments:

### VI. FLOW MEASUREMENT

YES NO N/A

Flow Measurement Meets the Requirements and Intent of Permit

*See ponds done by calculation. everything else automatic meters.*

Type of primary flow measurement device: in-line flow meters.  
*↳ mine discharge.*

Yes No N/A

1. Primary flow measuring device is properly installed and maintained.

Where? mine on effluent. + redundancy.

Yes No N/A

2. Flow measured at each outfall. Number of outfalls: 7

Yes No N/A

3. Frequency of routine inspection of primary flow device by operator:

1/day-week

Yes No N/A

4. Frequency of routine cleaning of primary flow device by operator: \_\_\_\_\_/week.

Yes No N/A

5. Influent flow is measured before all return lines.

Yes No N/A

6. Effluent flow is measured after all return lines.

Yes No N/A

7. Proper flow tables are used by facility personnel. *⇒ for ponds.*

*→ No real design flow.*

Yes No N/A 8. Design flow: \_\_\_\_\_ mgd.

Yes No N/A 9. Flow measurement equipment adequate to handle expected ranges of flow rate.

Comments:

**VII. PERMITTEE SAMPLING EVALUATION**

**YES NO N/A** Sampling meets the requirements and intent of the permit.

Yes No N/A 1. Samples are taken at sampling location specified by permit.

Yes No N/A 2. Locations are adequate for representative samples.

Yes No N/A 3. Flow proportioned samples are obtained.

Yes No N/A 4. Permittee is using method of sample collection required by permit.  
Required method: \_\_\_\_\_

- If not, method being used is:
- Grab
  - Manual
  - Automatic composite

Yes No N/A 5. Sample collection procedures adequate and include:

- Yes No N/A a. Sample refrigeration during compositing.
- Yes No N/A b. Proper preservation techniques.
- Yes No N/A c. Containers in conformance with 40 CFR 136.3.

Specify any problems: None.

Comments:

*Have SWPPP on-site. ⇒ These are BMP ⇒ silt fences  
Three discharge points on road up to water  
storage tank.*

*pH ⇒ Done on-site with hand held probe ⇒ No holding  
time.*





Facility: <i>Dugout Canyon Mine</i>				Month of DMR: <i>June 2015</i>				Outfall: <i>001</i>			
Parameter	Sampling		Analysis		Holding time exceeded	Bench sheet reported value		Reported values (DMR)		Calculated values from Insp.	
	Date	Time	Date	Time		30 day avg	7 day avg	Daily max	30 day avg	7 day avg	Daily max
<i>TFC</i>	<i>6/1</i>	<i>0926</i>	<i>6/10</i>	<i>2043</i>	<i>No</i>	<i>0.07 mg/L</i>					
	<i>6/8</i>	<i>1048</i>	<i>6/8</i>	<i>0422</i>	<i>No</i>	<i>0.17 "</i>		<i>0.17</i>			<i>0.17</i>
<i>TDS</i>	<i>6/1</i>	<i>0926</i>	<i>6/3</i>	<i>1516</i>	<i>No</i>	<i>1220 mg/L</i>					
	<i>6/8</i>	<i>1048</i>	<i>6/12</i>	<i>0927</i>	<i>No</i>	<i>1180 "</i>		<i>1220</i>	<i>1200</i>		<i>1220</i>
<i>TSS</i>	<i>6/1</i>	<i>0926</i>	<i>6/4</i>	<i>1530</i>	<i>No</i>	<i>&lt;5 mg/L</i>					
	<i>6/8</i>	<i>1048</i>	<i>6/5</i>	<i>1236</i>	<i>Yes</i>	<i>&lt;5 mg/L</i>		<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>
<i>pH</i>	<i>6/1</i>		<i>6/10</i>			<i>7.7 SU</i>		<i>max</i>	<i>min</i>	<i>max</i>	<i>min</i>
	<i>6/8</i>					<i>7.7 SU</i>		<i>7.7</i>	<i>7.7</i>	<i>7.7</i>	<i>7.7</i>
<i>Spec</i>	<i>6/1</i>					<i>None</i>		<i>0</i>		<i>0</i>	<i>0</i>
	<i>6/8</i>					<i>None</i>		<i>0</i>		<i>0</i>	<i>0</i>
<i>Flow</i>			<i>6/1</i>			<i>208 gpm</i>		<i>0.269</i>		<i>0.269</i>	<i>0.304</i>
			<i>6/8</i>			<i>206 gpm</i>					

*Vis*

*TDS tonnage - See attached data sheets from facility*



Facility: <u>Dugout Canyon Mine</u>		Month of DMR: <u>June 2015</u>					Outfall: <u>02</u>			
Parameter	Date	Sampling Time	Analysis		Holding time exceeded	Bench sheet reported value	Reported values (DMR)		Calculated values from Insp.	
			Date	Time			30 day avg	Daily max	30 day avg	Daily max
T-Fe	6/11	0724	6/23	1532	No	0.19 mg/L	-	0.19	-	0.19
TDS	6/11	0724	6/17	1013	No	992 mg/L	-	992	-	992
TSS	6/11	0724	6/17	1146	No	12.0 mg/L	12	12	12	12
pH	⇒	Portable pH meter used				8.63	5.4	8.63	8.63	8.63
		No holding time								
Shan						None		0		0
CE										
Flow	⇒	Measured				310 gpm	0.006	-	0.006	0.006

Vis

Discharged one day out of 30. See attached sheet data sheets



Facility: <u>Outcut Concrem Mine</u>				Month of DMR: <u>June 2015</u>				Outfall: <u>003</u>			
Parameter	Date	Sampling Time	Analysis Date	Holding time exceeded	Bench sheet reported value	Reported values (DMR)		Calculated values from Insp.			
						30 day avg	Daily max	30 day avg	Daily max		
T-Fe	6/1	0918	6/10 2053	No	0.07 mg/L	-	-	-	-		
	6/8	1043	6/8 0125	No	0.07 "	-	0.09	-	0.09		
TDS	6/1	0918	6/3 1520	No	1190 mg/L	1205	1210	1200	-		
	6/8	1043	6/2 0957	No	1210 "						
TSS	6/1	0918	6/4 1540	No	5.0 mg/L	1	5	2	5		
	6/8	1043	6/5 1237	Yes	<5.0 "						
pH	6/1					<u>Min</u>	<u>Max</u>	<u>Min</u>	<u>Max</u>		
	6/8				8.32 S.U.	8.29	8.32	8.29	8.32		
					8.29 S.U.						
Green flag	6/1				None						
	6/8				None	-	0	-	0		
Flow	6/1										
	6/8					0.560	0.486	0.560	0.786		

Vis

TDS (average calculations, see attached sheets)

**Dugout Canyon Mine  
Process & Discharge Water Detail  
June-15**

Date	Weekday	Total Discharge Flow @ 001 (Gal)
6/1/2015	Monday	280,270
6/2/2015	Tuesday	278,394
6/3/2015	Wednesday	272,026
6/4/2015	Thursday	287,323
6/5/2015	Friday	286,121
6/6/2015	Saturday	268,148
6/7/2015	Sunday	16,949
6/8/2015	Monday	303,774
6/9/2015	Tuesday	299,347
6/10/2015	Wednesday	297,450
6/11/2015	Thursday	295,462
6/12/2015	Friday	286,819
6/13/2015	Saturday	295,796
6/14/2015	Sunday	179,550
6/15/2015	Monday	301,535
6/16/2015	Tuesday	295,130
6/17/2015	Wednesday	291,663
6/18/2015	Thursday	285,977
6/19/2015	Friday	289,107
6/20/2015	Saturday	196,431
6/21/2015	Sunday	287,408
6/22/2015	Monday	286,400
6/23/2015	Tuesday	244,109
6/24/2015	Wednesday	244,109
6/25/2015	Thursday	286,877
6/26/2015	Friday	283,789
6/27/2015	Saturday	279,278
6/28/2015	Sunday	279,792
6/29/2015	Monday	284,539
6/30/2015	Tuesday	278,356

	<b>Total -</b>	8,061,928
	<b>Maximum -</b>	303,774
	<b>Minimum -</b>	16,949
	<b>Average -</b>	268,731

**Dugout Canyon Mine  
UPDES Outfall Monitoring**

**001 - Portal - Field Quality Parameters**

Date		06/01/15	06/08/15
Time		9:26	11:56
Flow	GPM	208	206
pH	SU	7.7	7.27
Conductivity	umhos/cm	1,331	1,310
Temperature	Deg. C	16.5	16.8
Sheen		None	None
Foam		None	None
Other		Fe=0.0	Fe=0.18
Person(s)		BK	BK
Comments		Sample Taken	Sample Taken

<b>Average Conductivity diff. vs. TDS</b>
9%

**ACZ Analytical Results**

Iron, Dissolved	mg/l	0.06	0.06
Iron, Total	mg/l	0.09	0.17
TDS	mg/l	1220	1180
TSS	mg/l	U	U

<b>30 Day Average TDS</b>
1191

**Calculated Values**

Flow, Daily Max.	MGD	-	<b>0.304</b>
Flow, 30 Day Avg.	MGD	-	<b>0.269</b>
TDS, Daily Max.	lbs/Day	-	3,018
TDS, Daily Max.	Tons/Day	-	<b>1.51</b>

**Dugout Canyon Mine  
002 Sediment Pond Detail  
June-15**

Date	Weekday	Total Discharge Quantity (Gal)
6/1/2015	Monday	0
6/2/2015	Tuesday	0
6/3/2015	Wednesday	0
6/4/2015	Thursday	0
6/5/2015	Friday	0
6/6/2015	Saturday	0
6/7/2015	Sunday	0
6/8/2015	Monday	0
6/9/2015	Tuesday	0
6/10/2015	Wednesday	0
6/11/2015	Thursday	0
6/12/2015	Friday	0
6/13/2015	Saturday	0
6/14/2015	Sunday	0
6/15/2015	Monday	0
6/16/2015	Tuesday	0
6/17/2015	Wednesday	0
6/18/2015	Thursday	0
6/19/2015	Friday	0
6/20/2015	Saturday	0
6/21/2015	Sunday	0
6/22/2015	Monday	0
6/23/2015	Tuesday	0
6/24/2015	Wednesday	182,464
6/25/2015	Thursday	0
6/26/2015	Friday	0
6/27/2015	Saturday	0
6/28/2015	Sunday	0
6/29/2015	Monday	0
6/30/2015	Tuesday	0

	<b>Total -</b>	182,464
	<b>Maximum -</b>	182,464
	<b>Minimum -</b>	0
	<b>Average -</b>	6,082

## Dugout Canyon Mine UPDES Outfall Monitoring

### 002 - Sediment Pond - Field Quality Parameters

Date		06/01/15	06/11/15
Time		16:15 pm	7:24
Flow	GPM	NOF	300
pH	SU		8.63
Conductivity	umhos/cm		1,123
Temperature	Deg. C		19.8
Sheen			None
Foam			None
Other			Fe = 0.14
Person(s)		BK	BK
Comments			

<b>Average Conductivity diff. vs. TDS</b>
12%

### ACZ Analytical Results

Iron , Dissolved	mg/l		0
Iron. Total	mg/l		0.19
TDS	mg/l		992
TSS	mg/l		12

<b>Average TDS</b>
992

### Calculated Values

Flow, Daily Max.	MGD	0.000	<b>0.182</b>
Flow, 30 Day Avg.	MGD	0.000	<b>0.006</b>
TDS, Daily Max.	lbs/Day	0	1,511
TDS, Daily Max.	Tons/Day	0.00	0.76

**Dugout Canyon Mine  
Process & Discharge Water Detail  
June-15**

Date	Weekday	Total Process Flow (Gal)	Total Well Flow (Gal)	Total Discharge Flow @ 003 (Gal)	Average Well Pressure (psi)
6/1/2015	Monday	54,682	777,499	618,328	83.8
6/2/2015	Tuesday	68,659	790,966	722,302	82.4
6/3/2015	Wednesday	63,823	778,693	714,482	81.0
6/4/2015	Thursday	67,680	781,482	713,941	80.0
6/5/2015	Friday	60,746	783,309	722,453	79.2
6/6/2015	Saturday	5,262	778,975	736,391	78.6
6/7/2015	Sunday	7,128	773,638	765,384	77.1
6/8/2015	Monday	75,891	775,523	698,153	76.0
6/9/2015	Tuesday	74,512	774,426	699,650	75.9
6/10/2015	Wednesday	75,373	773,042	686,517	75.0
6/11/2015	Thursday	66,119	770,302	704,246	74.9
6/12/2015	Friday	57,565	694,619	639,920	74.3
6/13/2015	Saturday	319	318	138	75.5
6/14/2015	Sunday	319	318	138	75.5
6/15/2015	Monday	76,228	75,029	0	78.3
6/16/2015	Tuesday	74,586	29,496	0	79.8
6/17/2015	Wednesday	66,659	70,611	0	82.0
6/18/2015	Thursday	78,402	80,839	0	84.2
6/19/2015	Friday	66,906	502,690	382,901	85.4
6/20/2015	Saturday	4,228	790,142	786,175	83.9
6/21/2015	Sunday	5,847	771,545	765,767	81.0
6/22/2015	Monday	59,055	781,763	722,948	79.3
6/23/2015	Tuesday	60,691	753,591	693,673	79.0
6/24/2015	Wednesday	65,140	781,025	715,999	78.1
6/25/2015	Thursday	66,436	778,411	712,169	77.6
6/26/2015	Friday	71,619	779,106	707,561	77.0
6/27/2015	Saturday	7,671	777,920	770,257	76.4
6/28/2015	Sunday	6,594	776,051	769,465	76.0
6/29/2015	Monday	54,285	703,452	649,278	75.3
6/30/2015	Tuesday	75,349	768,285	693,145	75.0
<b>Total -</b>		<b>1,517,773</b>	<b>18,473,067</b>	<b>16,791,383</b>	
<b>Maximum -</b>		<b>78,402</b>	<b>790,966</b>	<b>786,175</b>	<b>85.4</b>
<b>Minimum -</b>		<b>319</b>	<b>318</b>	<b>0</b>	<b>74.3</b>
<b>Average -</b>		<b>50,592</b>	<b>615,769</b>	<b>559,713</b>	<b>78.6</b>

TDS Summary					
Tons/Day	001		002		Total Tons/Day
	Tons/Day	Tons/Day	Tons/Day	Tons/Day	
3.11	1.39	0.00	0.00	0.00	4.50
3.63	1.38	0.00	0.00	0.00	5.01
3.59	1.35	0.00	0.00	0.00	4.94
3.59	1.43	0.00	0.00	0.00	5.02
3.63	1.42	0.00	0.00	0.00	5.05
3.70	1.33	0.00	0.00	0.00	5.03
3.85	0.08	0.00	0.00	0.00	3.93
3.51	1.51	0.00	0.00	0.00	5.02
3.52	1.49	0.00	0.00	0.00	5.00
3.45	1.48	0.00	0.00	0.00	4.93
3.54	1.47	0.00	0.00	0.00	5.01
3.22	1.42	0.00	0.00	0.00	4.64
0.00	1.47	0.00	0.00	0.00	1.47
0.00	0.89	0.00	0.00	0.00	0.89
0.00	1.50	0.00	0.00	0.00	1.50
0.00	1.47	0.00	0.00	0.00	1.47
0.00	1.45	0.00	0.00	0.00	1.45
0.00	1.42	0.00	0.00	0.00	1.42
1.92	1.44	0.00	0.00	0.00	3.36
3.95	0.98	0.00	0.00	0.00	4.93
3.85	1.43	0.00	0.00	0.00	5.28
3.63	1.42	0.00	0.00	0.00	5.06
3.49	1.21	0.00	0.00	0.00	4.70
3.60	1.21	0.00	0.00	0.00	5.57
3.58	1.43	0.00	0.00	0.00	5.01
3.56	1.41	0.00	0.00	0.00	4.97
3.87	1.39	0.00	0.00	0.00	5.26
3.87	1.39	0.00	0.00	0.00	5.26
3.26	1.41	0.00	0.00	0.00	4.68
3.48	1.38	0.00	0.00	0.00	4.87

Total -	003		001		002		Total
	Tons/Day	Tons/Day	Tons/Day	Tons/Day	Tons/Day	Tons/Day	
84.40	3.95	1.51	40.05	0.76	0.76	125.21	
0.00	0.00	0.08	0.00	0.00	0.00	0.89	
2.81	1.34	0.03	1.34	0.03	0.03	4.17	

**Dugout Canyon Mine  
UPDES Outfall Monitoring**

**003 - Tank Overflow - Field Quality Parameters**

Date		06/01/15	06/08/15
Time		9:18	10:43
Flow	GPM	549	534
pH	SU	8.32	8.29
Conductivity	umhos/cm	1,285	1,281
Temperature	Deg. C	15.1	15.9
Sheen		None	None
Foam		None	None
Other		Fe=0.12	Fe = 0.12
Person(s)		BK	BK
Comments			

<b>Average Conductivity diff. vs. TDS</b>
<b>6%</b>

**ACZ Analytical Results**

Iron, Dissolved	mg/l	0.07	0.04
Iron, Total	mg/l	0.07	0.09
TDS	mg/l	1190	1210
TSS	mg/l	5	0

<b>Average TDS</b>	
<b>1205</b>	30 day average
<b>1</b>	30 day average

**Calculated Values**

Flow, Daily Max.	MGD		<b>0.786</b>
Flow, 30 Day Avg.	MGD		<b>0.560</b>
TDS, Daily Max.	lbs/Day		7,904
TDS, Daily Max.	Tons/Day		<b>3.95</b>

PERMITTEE NAME / ADDRESS  
 (Include Facility Name/Location if different)  
**NAME:** Canyon Fuel Co., LLC  
**ADDRESS:** Dugout Canyon Mine  
 P. O. Box 1029  
 Wellington, Utah 84542  
**FACILITY:** Dugout Canyon Mine  
**LOCATION:** 13 miles Northeast of  
 Wellington, Utah 84542  
**ATTN:** DAVID SPILLMAN

NATIONAL POLLUTANT DISCH.  
 DISCHARGE MONITORING REPORT (DMR)  
 ELIMINATION SYSTEM (NPDES)  
 (DMR)  
 PERMIT NUMBER: UT0025593  
 DISCHARGE NUMBER: 001 - A

MONITORING PERIOD  
 FROM: MM/DD/YYYY 6/1/2015  
 TO: MM/DD/YYYY 6/30/2015

Form Approved  
 OMB No. 2040-0004  
 DMR Mailing ZIP Code: 84542  
 MINOR

MINE WATER DISCHARGE TO DUGOUT CRK  
 External Outfall

NO DISCHARGE

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS			
FLOW RATE	0.269				0	2/31	
MEASUREMENT	0.304						
PERMIT							
EFFLUENT GROSS	2 MGD					Twice per Month	MEASRD
PH	MAX MO AVE	Req. Mon.					
MEASUREMENT			7.27		0	2/31	
PERMIT							
EFFLUENT GROSS			6.5	MINIMUM		Twice per Month	GRAB
SOLIDS, TOTAL							
SAMPLE							
MEASUREMENT							
PERMIT							
EFFLUENT GROSS							
SOLIDS, SUSPENDED							
MEASUREMENT							
PERMIT							
EFFLUENT GROSS							
OIL AND GREASE							
MEASUREMENT							
PERMIT							
EFFLUENT GROSS							
SC 0							
MEASUREMENT							
PERMIT							
EFFLUENT GROSS							
IRON, TOTAL (as Fe)							
MEASUREMENT							
PERMIT							
EFFLUENT GROSS							
DISSOLVED							
MEASUREMENT							
PERMIT							
EFFLUENT GROSS							
OIL AND GREASE							
MEASUREMENT							
PERMIT							
EFFLUENT GROSS							
VISUAL							
MEASUREMENT							
PERMIT							
EFFLUENT GROSS							
TELEPHONE					435	636-2872	7/16/2015
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	D. G. Spillman MGR. of Tech Services		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER 		AREA CODE	NUMBER	REMARKS
TYPED OR PRINTED			OFFICER OR AUTHORIZED AGENT				

I verify under penalty of law that the documents and all attachments were prepared under my direct supervision or supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) \* Canyon Fuel Company participates in a salinity offset program.  
 For runoff events (rainfall or snowmelt) less than or equal to a 10-year 24-hour precipitation event, settleable solids may be substituted for TSS and shall be limited to 0.5 mg/L. If TDS concentrations exceeds 500 mg/L as a 30 day average, a tons per day loading limit will be enforced on the sum of all discharge points. If this occurs TDS loading in tons/Day must be reported on the summary page. If TDS loading in tons/day exceeds limit, then the permittee will participate in a salinity offset program. If an oil/grease sheen is observed or if oil/grease is present in discharge a grab sample will be taken.  
 EPA Form 3320-1 (Rev 01/06) Previous editions may be used.



PERMITTEE N. ADDRESS  
 (Include Facility Name/Location if different)  
 Canyon Fuel Co., LLC  
 Dugout Canyon Mine  
 P. O. Box 1029  
 Wellington, Utah 84542

NATIONAL POLLUTANT I. DISCHARGE MONITORING REPORT (DMR)  
 DMR Mailing ZIP Code: 84542  
 MINOR

For: oved  
 OMB No. 2040-0004

FACILITY: Dugout Canyon Mine  
 LOCATION: 13 miles Northeast of Wellington, Utah 84542

UT0025593  
 PERMIT NUMBER

MONITORING PERIOD  
 MM/DD/YYYY To MM/DD/YYYY  
 6/1/2015 To 6/30/2015

MINOR  
 MINE WATER DISCHARGE TO DUGOUT CRK  
 External Outfall

003 - A  
 DISCHARGE NUMBER

NO DISCHARGE

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS			
FLOW RATE	0.560				0	2/31	MEASURED
00056 10 EFFLUENT GROSS PH	30 DAY AVE Req. Mon.	0.786 DAILY MAX Req. Mon.				Twice per Month	MEASURED
00400 10 EFFLUENT GROSS SOLIDS, TOTAL			8.29		0	2/31	GRAB
00530 10 EFFLUENT GROSS OIL AND GREASE			6.5 MINIMUM		0	2/31	GRAB
00556 SC 0 SEE COMMENTS BELOW (as Fe)			1	5	0	2/31	GRAB
01045 10 EFFLUENT GROSS DISSOLVED SOLIDS, TOTAL			25 30 DAY AVE	35 7 DAY AVE		Twice per Month	GRAB
70295 10 EFFLUENT GROSS OIL AND GREASE			30 DAY AVE	DAILY MAX		Twice per Month	GRAB
84066 10 EFFLUENT GROSS			NA	NA	0	NA	GRAB
			10 DAILY MAX	Mg/L		See Comments Below	GRAB
			0.09	Mg/L	0	2/31	GRAB
			1.1 DAILY MAX	Mg/L		Twice per Month	GRAB
			1,205	Mg/L	0	2/31	GRAB
			30 DAY AVE Req. Mon.	DAILY MAX		Twice per Month	GRAB
			0	Mg/L	0	2/31	VISUAL
			DAILY MAX Req. Mon.	YES=1 NO=0		Twice per Month	VISUAL

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 D. G. Spillman  
 MGR. of Tech Services  
 TYPED OR PRINTED

1 certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  
 D. G. Spillman

AREA CODE NUMBER  
 435 636-2872

DATE  
 7/16/2015

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 For runoff events (rainfall or snowmelt) less than or equal to a 10-year 24-hour precipitation event, settleable solids may be substituted for TSS and shall be limited to 0.5 mg/L. If TDS concentrations exceeds 500 mg/l as a 30 day average, a tons per day loading limit will be enforced on the sum of all discharge points. If this occurs TDS loading in tons/Day must be reported on the summary page. If TDS loading in tons/day exceeds limit, then the permittee will participate in a salinity offset program. If an oil/grease sheen is observed or if oil/grease is present in discharge a grab sample will be taken.

EPA Form 3320-1 (Rev.01/06) Previous editions may be used.

\* Canyon Fuel Company participates in a salinity offset program.

PAGE 1

**PERMITEE NAME/ADDRESS**

(Include Facility Name/Location if different)  
**NAME:** Canyon Fuel Co., LLC  
**ADDRESS:** Dugout Canyon Mine  
 P. O. Box 1029  
 Wellington, Utah 84542  
**FACILITY:** Dugout Canyon Mine  
**LOCATION:** 13 miles Northeast of  
 Wellington, Utah 84542  
**ATTN:** DAVID SPILLMAN

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)**

UT0025593 PERMIT NUMBER  
 004 - A DISCHARGE NUMBER

MONITORING PERIOD  
 FROM MM/DD/YYYY 6/1/2015 To MM/DD/YYYY 6/30/2015

Form Approved  
 OMB No. 2040-0004

DMR Mailing ZIP Code: 84542  
 MINOR

SED POND TO TRIB GRASSY CREEK  
 External Outfall

NO DISCHARGE

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS			
FLOW RATE							
00056 10 EFFLUENT GROSS PH	30 DAY AVE Req. Min.	Megal/day	DAILY MAX Req. Min.			Twice per Month	MEASRD
00400 10 EFFLUENT GROSS SOLIDS, TOTAL SUSPENDED			6.5 MINIMUM	9 MAXIMUM		Twice per Month	GRAB
00530 10 EFFLUENT GROSS OIL AND GREASE	30 DAY AVE		25 30 DAY AVE	70 DAILY MAX		Twice per Month	GRAB
00556 SC 0 SEE COMMENTS BELOW IRON, TOTAL (as Fe)				10 DAILY MAX		See Comments Below	GRAB
01045 10 EFFLUENT GROSS SOLIDS, TOTAL DISSOLVED				1.1 DAILY MAX		Twice per Month	GRAB
70295 10 EFFLUENT GROSS OIL AND GREASE VISUAL	DAILY MAX Req. Min.	ton/day	30 DAY AVE Req. Min.	3400 DAILY MAX		Twice per Month	GRAB
84066 10 EFFLUENT GROSS	DAILY MAX Req. Min.	YES-1 NO-0				Twice per Month	VISUAL
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		D. G. Spillman MGR. of Tech Services		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	DATE
TYPED OR PRINTED						435 636-2872	7/16/2015
				AREA CODE NUMBER		MM/DD/YYYY	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)**  
 For runoff events (rainfall or snowmelt) less than or equal to a 10-year 24-hour precipitation event, settleable solids may be substituted for TSS and shall be limited to 0.5 ml/L. If TDS concentrations exceeds 500 mg/l as a 30 day average, a tons per day loading limit will be enforced on the sum of all discharge points. If this occurs TDS loading in tons/day exceeds limit, then the permittee will participate in a salinity offset program. If an oil/grease sheen is observed or if oil/grease is present in discharge a grab sample will be taken.  
 EPA form 3320-1 (Rev. 01/06) Previous editions may be used.

PERMITEE N. ADDRESS  
(Include Facility Name/Location if different)  
Canyon Fuel Co., LLC  
Dugout Canyon Mine  
P. O. Box 1029  
Wellington, Utah 84542

NATIONAL POLLUTANT L. ARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

DMR Mailing ZIP Code: 84542  
MINOR

UT0025593  
PERMIT NUMBER

005 - A  
DISCHARGE NUMBER

MINE WATER DISCHARGE  
External Outfall

MONITORING PERIOD  
MM/DD/YYYY To MM/DD/YYYY  
6/1/2015 To 6/30/2015

FACILITY: Wellington, Utah 84542  
LOCATION: Dugout Canyon Mine  
13 miles Northeast of Wellington, Utah 84542  
ATTN: DAVID SPILLMAN

NO DISCHARGE

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS				
FLOW RATE								
00056 10 EFFLUENT GROSS PH	30 DAY AVE Req. Min.	Mg/L/day	DAILY MAX Req. Min.				Twice per Month	MEASRD
00400 10 EFFLUENT GROSS SOLIDS, TOTAL SUSPENDED			6.5 MINIMUM	9 MAXIMUM	SU		Twice per Month	GRAB
00530 10 EFFLUENT GROSS OIL AND GREASE	30 DAY AVE		25 7 DAY AVE	70 DAILY MAX	Mg/L		Twice per Month	GRAB
00556 SC 0 SEE COMMENTS BELOW IRON, TOTAL (as Fe)				10 DAILY MAX	Mg/L		See Comments Below	GRAB
01045 10 EFFLUENT GROSS SOLIDS, TOTAL DISSOLVED				1.1 DAILY MAX	Mg/L		Twice per Month	GRAB
70295 10 EFFLUENT GROSS OIL AND GREASE VISUAL	DAILY MAX Req. Min.	Ion/day	30 DAY AVE Req. Min.	2400 DAILY MAX	Mg/L		Twice per Month	GRAB
84056 10 EFFLUENT GROSS	DAILY MAX Req. Min.	NO=0					Twice per Month	VISUAL

NAME/TITLE: PRINCIPAL EXECUTIVE OFFICER  
D. G. Spillman  
MGR. of Tech Services  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  
DATE: 7/16/2015  
TELEPHONE: 435 636-2872  
AREA CODE: 435  
NUMBER: 636-2872  
M/M/D/YYYY: MM/DD/YYYY

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

\* Canyon Fuel Company participates in a salinity offset program.

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
For runoff events (rainfall or snowmelt) less than or equal to a 10-year 24-hour precipitation event, settleable solids may be substituted for TSS and shall be limited to 0.5 mg/L. If TDS concentrations exceeds 500 mg/l as a 30 day average, a tons per day loading limit will be enforced on the sum of all discharge points. If this occurs TDS loading in tons/day must be reported on the summary page. If TDS loading in tons/day exceeds limit, then the permittee will participate in a salinity offset program. If an oil/grease sheen is observed or if oil/grease is present in discharge a grab sample will be taken.

EPA form 3320-1 (Rev.01/06) Previous editions may be used.

PERMITTEE NAME/ADDRESS  
 (Include Facility Name/Location if different)  
 NAME: Canyon Fuel Co., LLC  
 ADDRESS: Dugout Canyon Mine  
 P. O. Box 1029  
 Wellington, Utah 84542  
 FACILITY: Dugout Canyon Mine  
 LOCATION: 13 miles Northeast of  
 Wellington, Utah 84542  
 ATTN: DAVID SPILLMAN

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

Form Approved  
 OMB No. 2040-0004

DMR Mailing ZIP Code: 84542  
 MINOR

UT0025593 PERMIT NUMBER  
 006 - A DISCHARGE NUMBER

SEDIMENT TRAP  
 External Outfall

MONITORING PERIOD  
 MM/DD/YYYY To MM/DD/YYYY  
 FROM 6/1/2015 To 6/30/2015

NO DISCHARGE  XX

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	UNITS	VALUE			
FLOW RATE	MEASUREMENT								
00056 10 EFFLUENT GROSS PH	PERMIT REQUIREMENT	30 DAY AVE Req. Mon.	DAILY MAX Req. Mon.				Twice per Month	MEASRD	
00400 10 EFFLUENT GROSS SOLIDS, TOTAL SUSPENDED	MEASUREMENT PERMIT REQUIREMENT			6.5 MINIMUM	9 MAXIMUM	SU	Twice per Month	GRAB	
00530 10 EFFLUENT GROSS OIL AND GREASE	PERMIT REQUIREMENT			25 30 DAY AVE	70 DAILY MAX	Mg/L	Twice per Month	GRAB	
00556 SC 0 SEE COMMENTS BELOW IRON, TOTAL (as Fe)	MEASUREMENT PERMIT REQUIREMENT				10 DAILY MAX	Mg/L	See Comments Below	GRAB	
01045 EFFLUENT GROSS SOLIDS, TOTAL DISSOLVED	MEASUREMENT PERMIT REQUIREMENT				1.1 DAILY MAX	Mg/L	Twice per Month	GRAB	
70295 10 EFFLUENT GROSS OIL AND GREASE VISUAL	PERMIT REQUIREMENT				2400 DAILY MAX	Mg/L	Twice per Month	GRAB	
84066 10 EFFLUENT GROSS	MEASUREMENT PERMIT REQUIREMENT						Twice per Month	VISUAL	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and analyzed the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

NAME/TITLE: D. G. Spillman, MGR. of Tech Services  
 SIGNATURE: [Signature]  
 OFFICER OR AUTHORIZED AGENT

TELEPHONE: 435 636-2872  
 AREA NUMBER: 435  
 CODE: 636-2872

DATE: 7/16/2015

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 For runoff events (rainfall or snowmelt) less than or equal to a 10-year 24-hour precipitation event, settleable solids may be substituted for TSS and shall be limited to 0.5 mL. If TDS concentrations exceeds 500 mg/l as a 30 day average, a tons per day loading limit will be enforced on the sum of all discharge points. If this occurs TDS loading in tons/Day must be reported on the summary page. If TDS loading in tons/day exceeds limit, then the permittee will participate in a salinity offset program. If an oil/grease sheen is observed or if oil/grease is present in discharge a grab sample will be taken.

EPA form 3520-1 (Rev. 01/06) Previous editions may be used.

PERMITTEE NAME: **DRESS**  
 (Include Facility Name/Location if different)  
 NAME: Canyon Fuel Co., LLC  
 ADDRESS: Dugout Canyon Mine  
 P. O. Box 1029  
 Wellington, Utah 84542  
 FACILITY: Dugout Canyon Mine  
 LOCATION: 13 miles Northeast of  
 Wellington, Utah 84542  
 ATTN: DAVID SPILLMAN

NATIONAL POLLUTANT DISCHARGE  
 ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

Form App  
 OMB No. 2040-0004

DMR Mailing ZIP Code: 84542  
 MINOR

SUM OF ALL TDS VALUES  
 External Outfall

NO DISCHARGE

UT0025593 PERMIT NUMBER	SUM - A DISCHARGE NUMBER
----------------------------	-----------------------------

MONITORING PERIOD	MM/DD/YYYY	To	MM/DD/YYYY
FROM	6/1/2015		6/30/2015

PARAMETER	(3 Card Only)		QUANTITY OR LOADING				QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS			
SOLIDS, TOTAL DISSOLVED	*****		5.57*		*****		*****		*****		0	2/31	CALCTD
70295 10 EFFLUENT GROSS	*****		Req. Met.	TONSDAY	*****		*****		*****			TWICE PER MONTH	CALCTD

NAME/TITLE: PRINCIPAL EXECUTIVE OFFICER  D. G. Spillman MGR. of Tech Services	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  <i>D. G. Spillman</i>		TELEPHONE 435 636-2872	DATE 7/16/2015
	TYPED OR PRINTED		AREA CODE NUMBER	MM DD YYYY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

\* Canyon Fuel Company participates in a salinity offset program.

June 22, 2015

**Report to:**

Dave Spillman  
Canyon Fuel Company, LLC  
P.O. Box 1029  
Wellington, UT 84542

**Bill to:**

Pamela Martin  
Canyon Fuel Company, LLC  
P.O. Box 1029  
Wellington, UT 84542

cc: Bill King

**Project ID:**

ACZ Project ID: L24813

Dave Spillman:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 10, 2015. This project has been assigned to ACZ's project number, L24813. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L24813. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after July 22, 2015. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Sue Webber has reviewed and approved this report



**Canyon Fuel Company, LLC**  
 Project ID:  
 Sample ID: 001

ACZ Sample ID: **L24813-01**  
 Date Sampled: **06/08/15 10:48**  
 Date Received: **06/10/15**  
 Sample Matrix: **Surface Water**

**Inorganic Prep**

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Hot Plate Digestion	M200.2 ICP								06/17/15 11:39	aeb

**Metals Analysis**

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Iron, dissolved	M200.7 ICP	1	0.06			mg/L	0.02	0.05	06/18/15 18:52	aeb
Iron, total	M200.7 ICP	1	0.17			mg/L	0.02	0.05	06/18/15 4:22	aeb

**Wet Chemistry**

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Residue, Filterable (TDS) @180C	SM2540C	1	1180			mg/L	10	20	06/12/15 9:57	tms
Residue, Non-Filterable (TSS) @105C	SM2540D	1		U	*	mg/L	5	20	06/15/15 12:36	id

Arizona license number: **AZ0102**

**Canyon Fuel Company, LLC**

Project ID:

Sample ID: 003

ACZ Sample ID: **L24813-02**

Date Sampled: 06/08/15 10:43

Date Received: 06/10/15

Sample Matrix: Surface Water

**Inorganic Prep**

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Hot Plate Digestion	M200.2 ICP								06/17/15 11:51	aeb

**Metals Analysis**

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Iron, dissolved	M200.7 ICP	1	0.04	B		mg/L	0.02	0.05	06/18/15 18:55	aeb
Iron, total	M200.7 ICP	1	0.09			mg/L	0.02	0.05	06/18/15 4:25	aeb

**Wet Chemistry**

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Residue, Filterable (TDS) @180C	SM2540C	1	1210			mg/L	10	20	06/12/15 9:58	tms
Residue, Non-Filterable (TSS) @105C	SM2540D	1		U		mg/L	5	20	06/15/15 12:37	id

Arizona license number: **AZ0102**

**Report Header Explanations**

<b>Batch</b>	A distinct set of samples analyzed at a specific time
<b>Found</b>	Value of the QC Type of Interest
<b>Limit</b>	Upper limit for RPD, in %.
<b>Lower</b>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<b>MDL</b>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
<b>PCN/SCN</b>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<b>PQL</b>	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
<b>QC</b>	True Value of the Control Sample or the amount added to the Spike
<b>Rec</b>	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
<b>RPD</b>	Relative Percent Difference, calculation used for Duplicate QC Types
<b>Upper</b>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<b>Sample</b>	Value of the Sample of Interest

**QC Sample Types**

<b>AS</b>	Analytical Spike (Post Digestion)	<b>LCSWD</b>	Laboratory Control Sample - Water Duplicate
<b>ASD</b>	Analytical Spike (Post Digestion) Duplicate	<b>LFB</b>	Laboratory Fortified Blank
<b>CCB</b>	Continuing Calibration Blank	<b>LFM</b>	Laboratory Fortified Matrix
<b>CCV</b>	Continuing Calibration Verification standard	<b>LFMD</b>	Laboratory Fortified Matrix Duplicate
<b>DUP</b>	Sample Duplicate	<b>LRB</b>	Laboratory Reagent Blank
<b>ICB</b>	Initial Calibration Blank	<b>MS</b>	Matrix Spike
<b>ICV</b>	Initial Calibration Verification standard	<b>MSD</b>	Matrix Spike Duplicate
<b>ICSAB</b>	Inter-element Correction Standard - A plus B solutions	<b>PBS</b>	Prep Blank - Soil
<b>LCSS</b>	Laboratory Control Sample - Soil	<b>PBW</b>	Prep Blank - Water
<b>LCSSD</b>	Laboratory Control Sample - Soil Duplicate	<b>PQV</b>	Practical Quantitation Verification standard
<b>LCSW</b>	Laboratory Control Sample - Water	<b>SDL</b>	Serial Dilution

**QC Sample Type Explanations**

<b>Blanks</b>	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
<b>Control Samples</b>	Verifies the accuracy of the method, including the prep procedure.
<b>Duplicates</b>	Verifies the precision of the instrument and/or method.
<b>Spikes/Fortified Matrix</b>	Determines sample matrix interferences, if any.
<b>Standard</b>	Verifies the validity of the calibration.

**ACZ Qualifiers (Qual)**

<b>B</b>	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
<b>H</b>	Analyte exceeded method hold time. pH is a field test with an immediate hold time.
<b>L</b>	Target analyte response was below the laboratory defined negative threshold.
<b>U</b>	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

**Method References**

- (1) EPA 800/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
- (4) EPA SW-846. Test Methods for Evaluating Solid Waste.
- (5) Standard Methods for the Examination of Water and Wastewater.

**Comments**

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for inorganic analyses are reported on an "as received" basis.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
- (5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extqualist.pdf>

**Canyon Fuel Company, LLC**

**ACZ Project ID: L24813**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L24813-01	WG385230	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L24813-02	WG385230	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

Canyon Fuel Company, LLC

ACZ Project ID: **L24813**

No certification qualifiers associated with this analysis

Canyon Fuel Company, LLC

ACZ Project ID: L24813  
 Date Received: 06/10/2015 09:47  
 Received By: ddp  
 Date Printed: 6/10/2015

**Receipt Verification**

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate? The sample matrix was entered per the requested quotation.		X	
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?		X	

**Sample Containers**

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? <sup>1</sup>	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

**Chain of Custody (Related Remarks)**

**Client Contact Remarks**

**Shipping Containers**

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
NA21935	4.8	14	N/A

Was ice present in the shipment container(s)?  
 Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Canyon Fuel Company, LLC

ACZ Project ID: L24813  
Date Received: 06/10/2015 09:47  
Received By: ddp  
Date Printed: 6/10/2015

<sup>1</sup> The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



June 25, 2015

## Report to:

Dave Spillman  
Canyon Fuel Company, LLC  
P.O. Box 1029  
Wellington, UT 84542

## Bill to:

Pamela Martin  
Canyon Fuel Company, LLC  
P.O. Box 1029  
Wellington, UT 84542

cc: Bill King

## Project ID:

ACZ Project ID: L24865

Dave Spillman:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 12, 2015. This project has been assigned to ACZ's project number, L24865. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L24865. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after July 25, 2015. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Sue Webber has reviewed and approved this report.



**Canyon Fuel Company, LLC**  
 Project ID:  
 Sample ID: 002

ACZ Sample ID: **L24865-01**  
 Date Sampled: **06/11/15 07:24**  
 Date Received: **06/12/15**  
 Sample Matrix: **Surface Water**

**Inorganic Prep**

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Hot Plate Digestion	M200.2 ICP								06/23/15 12:55	aeb

**Metals Analysis**

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Iron, dissolved	M200.7 ICP	1		U		mg/L	0.02	0.05	06/18/15 0:40	aeb
Iron, total	M200.7 ICP	1	0.19		*	mg/L	0.02	0.05	06/23/15 18:32	aeb

**Wet Chemistry**

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Residue, Filterable (TDS) @180C	SM2540C	1	992			mg/L	10	20	06/17/15 10:13	enb
Residue, Non-Filterable (TSS) @105C	SM2540D	1	12.0	B	*	mg/L	5	20	06/17/15 11:46	enb

**Arizona license number: AZ0102**

**Report Header Explanations**

<b>Batch</b>	A distinct set of samples analyzed at a specific time
<b>Found</b>	Value of the QC Type of Interest
<b>Limit</b>	Upper limit for RPD, in %.
<b>Lower</b>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<b>MDL</b>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
<b>PCN/SCN</b>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<b>PQL</b>	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
<b>QC</b>	True Value of the Control Sample or the amount added to the Spike
<b>Rec</b>	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
<b>RPD</b>	Relative Percent Difference, calculation used for Duplicate QC Types
<b>Upper</b>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<b>Sample</b>	Value of the Sample of Interest

**QC Sample Types**

<b>AS</b>	Analytical Spike (Post Digestion)	<b>LCSWD</b>	Laboratory Control Sample - Water Duplicate
<b>ASD</b>	Analytical Spike (Post Digestion) Duplicate	<b>LFB</b>	Laboratory Fortified Blank
<b>CCB</b>	Continuing Calibration Blank	<b>LFM</b>	Laboratory Fortified Matrix
<b>CCV</b>	Continuing Calibration Verification standard	<b>LFMD</b>	Laboratory Fortified Matrix Duplicate
<b>DUP</b>	Sample Duplicate	<b>LRB</b>	Laboratory Reagent Blank
<b>ICB</b>	Initial Calibration Blank	<b>MS</b>	Matrix Spike
<b>ICV</b>	Initial Calibration Verification standard	<b>MSD</b>	Matrix Spike Duplicate
<b>ICSAB</b>	Inter-element Correction Standard - A plus B solutions	<b>PBS</b>	Prep Blank - Soil
<b>LCSS</b>	Laboratory Control Sample - Soil	<b>PBW</b>	Prep Blank - Water
<b>LCSSD</b>	Laboratory Control Sample - Soil Duplicate	<b>PQV</b>	Practical Quantitation Verification standard
<b>LCSW</b>	Laboratory Control Sample - Water	<b>SDL</b>	Serial Dilution

**QC Sample Type Explanations**

<b>Blanks</b>	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
<b>Control Samples</b>	Verifies the accuracy of the method, including the prep procedure.
<b>Duplicates</b>	Verifies the precision of the instrument and/or method.
<b>Spikes/Fortified Matrix</b>	Determines sample matrix interferences, if any.
<b>Standard</b>	Verifies the validity of the calibration.

**ACZ Qualifiers (Qual)**

<b>B</b>	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
<b>H</b>	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
<b>L</b>	Target analyte response was below the laboratory defined negative threshold.
<b>U</b>	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

**Method References**

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
- (4) EPA SW-846. Test Methods for Evaluating Solid Waste.
- (5) Standard Methods for the Examination of Water and Wastewater.

**Comments**

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
- (5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extquallist.pdf>

Canyon Fuel Company, LLC

ACZ Project ID: **L24865**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L24865-01	WG385728	Iron, total	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG385367	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

Canyon Fuel Company, LLC

ACZ Project ID: **L24865**

No certification qualifiers associated with this analysis

Canyon Fuel Company, LLC

ACZ Project ID: L24865  
 Date Received: 06/12/2015 09:49  
 Received By: ear  
 Date Printed: 6/12/2015

**Receipt Verification**

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate? The sample matrix was entered per the requested quotation.		X	
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?		X	

**Sample QC Observations**

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? <sup>1</sup>	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

**Chain of Custody Relay Remarks**

**Client Contact Remarks**

**Shipping Containers**

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
NA21958	0.5	14	N/A

Was ice present in the shipment container(s)?  
 Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Canyon Fuel Company, LLC

ACZ Project ID: L24865

Date Received: 06/12/2015 09:49

Received By: ear

Date Printed: 6/12/2015

<sup>1</sup> The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



June 12, 2015

Report to:  
Dave Spillman  
Canyon Fuel Company, LLC  
P.O. Box 1029  
Wellington, UT 84542  
  
cc: Bill King

Bill to:  
Pamela Martin  
Canyon Fuel Company, LLC  
P.O. Box 1029  
Wellington, UT 84542

Project ID:  
ACZ Project ID: L24641

Dave Spillman:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 02, 2015. This project has been assigned to ACZ's project number, L24641. Please reference this number in all future inquiries.

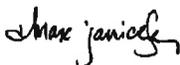
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L24641. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after July 12, 2015. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Canyon Fuel Company, LLC  
 Project ID:  
 Sample ID: 001

ACZ Sample ID: **L24641-01**  
 Date Sampled: 06/01/15 09:26  
 Date Received: 06/02/15  
 Sample Matrix: Surface Water

**Inorganic Prep**

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Hot Plate Digestion	M200.2 ICP								06/10/15 13:40	jjc

**Metals Analysis**

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Iron, dissolved	M200.7 ICP	1	0.06			mg/L	0.02	0.05	06/10/15 17:13	aeb
Iron, total	M200.7 ICP	1	0.09			mg/L	0.02	0.05	06/10/15 20:43	jjc

**Wet Chemistry**

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Residue, Filterable (TDS) @180C	SM2540C	1	1220		*	mg/L	10	20	06/03/15 15:16	id
Residue, Non-Filterable (TSS) @105C	SM2540D	1		U	*	mg/L	5	20	06/04/15 15:36	id

Arizona license number: AZ0102

**Canyon Fuel Company, LLC**

Project ID:

Sample ID: 003

ACZ Sample ID: **L24641-04**

Date Sampled: 06/01/15 09:18

Date Received: 06/02/15

Sample Matrix: Surface Water

**Inorganic Prep**

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Hot Plate Digestion	M200.2 ICP								06/10/15 14:15	jjc

**Metals Analysis**

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Iron, dissolved	M200.7 ICP	1	0.07			mg/L	0.02	0.05	06/10/15 17:22	aeb
Iron, total	M200.7 ICP	1	0.07			mg/L	0.02	0.05	06/10/15 20:53	jjc

**Wet Chemistry**

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Residue, Filterable (TDS) @180C	SM2540C	1	1190		*	mg/L	10	20	06/03/15 15:20	id
Residue, Non-Filterable (TSS) @105C	SM2540D	1	5.0	B	*	mg/L	5	20	06/04/15 15:40	id

Arizona license number: AZ0102

#### Report Header Explanations

<b>Batch</b>	A distinct set of samples analyzed at a specific time
<b>Found</b>	Value of the QC Type of Interest
<b>Limit</b>	Upper limit for RPD, in %.
<b>Lower</b>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<b>MDL</b>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
<b>PCN/SCN</b>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<b>PQL</b>	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
<b>QC</b>	True Value of the Control Sample or the amount added to the Spike
<b>Rec</b>	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
<b>RPD</b>	Relative Percent Difference, calculation used for Duplicate QC Types
<b>Upper</b>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<b>Sample</b>	Value of the Sample of Interest

#### QC Sample Types

<b>AS</b>	Analytical Spike (Post Digestion)	<b>LCSWD</b>	Laboratory Control Sample - Water Duplicate
<b>ASD</b>	Analytical Spike (Post Digestion) Duplicate	<b>LFB</b>	Laboratory Fortified Blank
<b>CCB</b>	Continuing Calibration Blank	<b>LFM</b>	Laboratory Fortified Matrix
<b>CCV</b>	Continuing Calibration Verification standard	<b>LFMD</b>	Laboratory Fortified Matrix Duplicate
<b>DUP</b>	Sample Duplicate	<b>LRB</b>	Laboratory Reagent Blank
<b>ICB</b>	Initial Calibration Blank	<b>MS</b>	Matrix Spike
<b>ICV</b>	Initial Calibration Verification standard	<b>MSD</b>	Matrix Spike Duplicate
<b>ICSAB</b>	Inter-element Correction Standard - A plus B solutions	<b>PBS</b>	Prep Blank - Soil
<b>LCSS</b>	Laboratory Control Sample - Soil	<b>PBW</b>	Prep Blank - Water
<b>LCSSD</b>	Laboratory Control Sample - Soil Duplicate	<b>PQV</b>	Practical Quantitation Verification standard
<b>LCSW</b>	Laboratory Control Sample - Water	<b>SDL</b>	Serial Dilution

#### QC Sample Type Explanations

<b>Blanks</b>	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
<b>Control Samples</b>	Verifies the accuracy of the method, including the prep procedure.
<b>Duplicates</b>	Verifies the precision of the instrument and/or method.
<b>Spikes/Fortified Matrix</b>	Determines sample matrix interferences, if any.
<b>Standard</b>	Verifies the validity of the calibration.

#### ACZ Qualifiers (Qual)

<b>B</b>	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
<b>H</b>	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
<b>L</b>	Target analyte response was below the laboratory defined negative threshold.
<b>U</b>	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

#### Method References

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
- (4) EPA SW-846. Test Methods for Evaluating Solid Waste.
- (5) Standard Methods for the Examination of Water and Wastewater.

#### Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for inorganic analytes are reported on a dry weight basis.
- (3) Animal matrices for inorganic analytes are reported on an "as received" basis.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
- (5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extqualist.pdf>

Canyon Fuel Company, LLC

ACZ Project ID: **L24641**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L24641-01	WG384622	Residue, Filterable (TDS) @180C	SM2540C	RO	The duplicate originally assigned to this sample was not used for precision assessment because residue density exceeded the method limits. Another duplicate in the batch was used to assess precision. Method required duplicate frequency was not met.
	WG384723	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L24641-02	WG384622	Residue, Filterable (TDS) @180C	SM2540C	RO	The duplicate originally assigned to this sample was not used for precision assessment because residue density exceeded the method limits. Another duplicate in the batch was used to assess precision. Method required duplicate frequency was not met.
	WG384723	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L24641-03	WG384622	Residue, Filterable (TDS) @180C	SM2540C	RO	The duplicate originally assigned to this sample was not used for precision assessment because residue density exceeded the method limits. Another duplicate in the batch was used to assess precision. Method required duplicate frequency was not met.
	WG384723	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L24641-04	WG384622	Residue, Filterable (TDS) @180C	SM2540C	RO	The duplicate originally assigned to this sample was not used for precision assessment because residue density exceeded the method limits. Another duplicate in the batch was used to assess precision. Method required duplicate frequency was not met.
	WG384723	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

No certification qualifiers associated with this analysis

Canyon Fuel Company, LLC

ACZ Project ID: L24641  
 Date Received: 06/02/2015 10:02  
 Received By: ddp  
 Date Printed: 6/2/2015

**Receipt Verification**

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate? The sample matrix was entered per the requested quotation.		X	
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?		X	

**Sample Containers**

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? <sup>1</sup>	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

**Chain of Custody Related Remarks**

**Client Contact Remarks**

**Shipping Containers**

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
3204	3.4	14	N/A

Was ice present in the shipment container(s)?  
 Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Canyon Fuel Company, LLC

ACZ Project ID: L24641  
Date Received: 06/02/2015 10:02  
Received By: ddp  
Date Printed: 6/2/2015

<sup>1</sup> The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

