

0014



Canyon Fuel Company
SUF CO Mine
397 South 800 West
Salina, UT 84654
(435) 286-4880 Fax (435) 286-4499

March 26, 2001

Mr. Mike Herkimer
Department of Environmental Quality
Division of Water Quality
288 North 1460 West
P.O. Box 144870
Salt Lake City, Utah 84114-4870

Copy letter to Dave Baldy
[Redacted]
[Redacted]

RE: UPDES PERMIT UT-0022918

Dear Mr. Herkimer:

According to the conditions of UPDES Discharge Permit UT-0022918, Part II-I-3 and Utah Coal Mining Rules R645-301-731.223, Canyon Fuel Company provided written notification on February 22, 2001 of a failure to comply with the daily maximum limitation for TSS at outfall 002. The receiving drainage for outfall 002 is East Spring Canyon. The daily maximum limit for TSS of 70 mg/l was exceeded because the sample taken on February 7, 2001 had a TSS value of 95.3 mg/l and no settleable solids sample was taken. The outflow was 21.7 gpm when this sample was taken.

A second sample was taken on February 21, 2001 (See attached sample report), which had a TSS value of 248 mg/l which is 260% higher than the sample taken on February 7, 2001. A settleable solids sample was also taken on February 21, 2001 with a value of <0.1 mL/L. Under Part I-D-3, a settleable solids sample with a daily maximum limitation of 0.5 mL/L can be taken with these snowmelt runoff events instead of the total suspended solids limitation contained in Part I-D-1. If a settleable solids sample had been taken on February 7, 2001 we feel that PT002 would not have been out of compliance with the UPDES permit parameters under Part I-D-3. These high TSS values are caused by the sediment pond being frozen. With the ice in the pond the pond has filled up and is discharging from snowmelt. During these conditions the inflow is running into the pond and across the ice to the discharge. The outflow was 34.2 gpm when the second sample was taken.

By your request, a mercury sample was also taken on February 21, 2001 with a value of not detected above the MDL of 0.1 µg/L.

Sincerely,
CANYON FUEL COMPANY, LLC
SUF CO Mine

Wesley K. Sorensen, P.E.
Technical Services Manager

WKS/MLD:kb

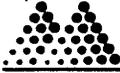
Encl.:

cc: Division of Oil, Gas & Mining
EPA - Water Management Division
Ken May
Chris Hansen

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MAR 30 2001

DIVISION OF
OIL, GAS AND MINING



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ANALYTICAL REPORT



March 06, 2001

Received

MAR 12 2001

Mr. Mike Davis
Canyon Fuel Company, LLC
SUFCO Mine
397 South 800 West
Salina, UT 84654
(435) 286-4421 Fax: (435) 286-4499

Canyon Fuel Company
SUFCO Mine

Project: SUFCO

Work Order: 0102227

Purchase Order: 7354-1

Dear Mr. Mike Davis,

Thank you for using Mountain States Analytical, Inc. (MSAI) as your environmental information resource. Our reports are designed to meet the Certified Laboratory Reporting Requirements of Utah Administrative Code R444-14-12(10) and the National Environmental Laboratory Accreditation Program (NELAP), Section 5.13.

This is Report Number 0102227-1 and contains 15 pages of information for the sample submitted to MSAI on Thursday, February 22, 2001. Any sample receipt documentation detailed in the Work Order Receipt Summary of this report (e.g., Chain-of-Custody, Work Order Authorization, etc.) and/or analytical results noted as "see attached" are included by reference as attachments following page 15. For regulatory compliance reporting, individual pages or portions of this report may not be separated.

If you have any questions regarding the information contained in this report, please feel free to contact me at (801)973-0050 ext. 3026 or by e-mail at rlarsen@msailabs.com.

Mountain States Analytical, Inc.

Rolf E. Larsen
Project Manager



Mountain States Analytical, Inc.

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Sample Summary

Client: Canyon Fuel Company, LLC
Project: SUFCO
Project ID:

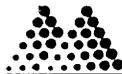
Report Number: 0102227-1
Date Reported: 03/06/01
Work Order: 0102227

Lab Sample ID	Client Sample ID	Additional Sample Information	Matrix	Date Collected
0102227-01A	PT002022101		Waste Water	02/21/01
0102227-01B	PT002022101		Waste Water	02/21/01
0102227-01C	PT002022101		Waste Water	02/21/01
0102227-01D	PT002022101		Waste Water	02/21/01

Received

MAR 12 2001

Canyon Fuel Company
SUFCO Mine



Holding Time Summary

Client: Canyon Fuel Company, LLC
Project: SUFCO
Project ID:

Report Number: 0102227-1
Date Reported: 03/06/01
Work Order: 0102227

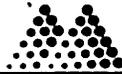
Sample ID	Client Sample ID								Date Collected
0102227-01A	PT002022101								02/21/01 09:00
		Leachate							
Parameter		Start Date	End Date	HT	Prep Date	HT	Analysis Date	HT	
Solids, Total Dissolved (TDS)							02/28/01	7	
Solids, Total Suspended (TSS)							02/28/01	7	
0102227-01B	PT002022101								02/21/01 09:00
		Leachate							
Parameter		Start Date	End Date	HT	Prep Date	HT	Analysis Date	HT	
Mercury by CVAA					02/23/01 16:03		02/23/01 20:03	28	
Metals by ICP					02/27/01 17:13		02/28/01 11:54	180	
0102227-01C	PT002022101								02/21/01 09:00
		Leachate							
Parameter		Start Date	End Date	HT	Prep Date	HT	Analysis Date	HT	
Oil & Grease (HEM) SPE,							03/01/01	28	
0102227-01D	PT002022101								02/21/01 09:00
		Leachate							
Parameter		Start Date	End Date	HT	Prep Date	HT	Analysis Date	HT	
Solids, Settleable							02/22/01 16:00	2	

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Canyon Fuel Company
SUFCO Mine

* - The recommended holding time was exceeded



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Client: Mr. Mike Davis
 Canyon Fuel Company, LLC
 SUFCO Mine
 397 South 800 West
 Salina, UT 84654
 (435) 286-4421 Fax: (435) 286-4499

Project: SUFCO
Project ID:
Purchase Order: 7354-1

Report Number: 0102227-1
Date Reported: 03/06/01
Work Order: 0102227
Lab Sample ID: 0102227-01A
Client Sample ID: PT002022101
Date Collected: 02/21/01
Date Received: 02/22/01 12:40
Matrix: Waste Water
COC ID: 21723

Parameter	Result	MDL	PQL	Units	DF	Date Analyzed	Analyst
EPA 160.1: Solids, Total Dissolved (TDS), Water							
Total dissolved solids	1720	26	130	mg/L	2	02/28/01	SSJ
EPA 160.2: Solids, Total Suspended (TSS), Water							
Total suspended solids	248	5	25	mg/L	1	02/28/01	SSJ

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Canyon Fuel Company
SUFCO Mine

U - Not detected above the MDL

B - Analyte detected in the associated Method Blank

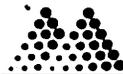
S - Results outside normal recovery limits

J - Analyte detected below the PQL

E - Result is outside of quantitation range

R - RPD outside normal precision limits

* - Result is greater than the associated action level



Mountain States Analytical, Inc.

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Client: Mr. Mike Davis
 Canyon Fuel Company, LLC
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 (435) 286-4421 Fax: (435) 286-4499

Project: SUFCO
Project ID:
Purchase Order: 7354-1

Report Number: 0102227-1
Date Reported: 03/06/01
Work Order: 0102227
Lab Sample ID: 0102227-01B
Client Sample ID: PT002022101
Date Collected: 02/21/01
Date Received: 02/22/01 12:40
Matrix: Waste Water
COC ID: 21723

Parameter	Result	MDL	PQL	Units	DF	Date Analyzed	Analyst
SW-846 3005A: Flame/hrICP Prep, Water							
Prep Batch ID: 5255						02/27/01 17:13	LC
SW-846 7470A: Mercury by CVAA, Water							
Mercury	U	0.1	0.5	µg/L	1	02/23/01 20:03	DGW
SW-846 7470A: Mercury Prep CVAA, Water							
Prep Batch ID: 5215						02/23/01 16:03	DGW
SW-846 6010B: Metals by ICP, Water							
Iron	0.26 J	0.2	1	mg/L	1	02/28/01 11:54	MM

Received

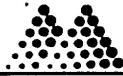
MAR 13 2001

Canyon Fuel Company
SUFCO Mine

U - Not detected above the MDL
 J - Analyte detected below the PQL
 * - Result is greater than the associated action level

B - Analyte detected in the associated Method Blank
 E - Result is outside of quantitation range

S - Results outside normal recovery limits
 R - RPD outside normal precision limits



Mountain States Analytical, Inc.

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Client: Mr. Mike Davis
 Canyon Fuel Company, LLC
 SUFCO Mine
 397 South 800 West
 Salina, UT 84654
 (435) 286-4421 Fax: (435) 286-4499

Project: SUFCO
Project ID:
Purchase Order: 7354-1

Report Number: 0102227-1
Date Reported: 03/06/01
Work Order: 0102227
Lab Sample ID: 0102227-01C
Client Sample ID: PT002022101
Date Collected: 02/21/01
Date Received: 02/22/01 12:40
Matrix: Waste Water
COC ID: 21723

Parameter	Result	MDL	PQL	Units	DF	Date Analyzed	Analyst
EPA 1664: Oil & Grease (HEM) SPE,, Water							
Oil & Grease	U	1.9	10	mg/L	1	03/01/01	MAM

Received

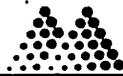
MAR 12 2001

Canyon Fuel Company
SUFCO Mine

U - Not detected above the MDL
 J - Analyte detected below the PQL
 * - Result is greater than the associated action level

B - Analyte detected in the associated Method Blank
 E - Result is outside of quantitation range

S - Results outside normal recovery limits
 R - RPD outside normal precision limits



Mountain States Analytical, Inc.

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Client: Mr. Mike Davis
 Canyon Fuel Company, LLC
 SUFCO Mine
 397 South 800 West
 Salina, UT 84654
 (435) 286-4421 Fax: (435) 286-4499

Project: SUFCO
Project ID:
Purchase Order: 7354-1

Report Number: 0102227-1
Date Reported: 03/06/01
Work Order: 0102227
Lab Sample ID: 0102227-01D
Client Sample ID: PT002022101
Date Collected: 02/21/01
Date Received: 02/22/01 12:40
Matrix: Waste Water
COC ID: 21723

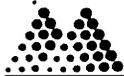
Parameter	Result	MDL	PQL	Units	DF	Date Analyzed	Analyst
EPA 160.5: Solids, Settleable, Water							
Settleable solids	<0.1 mL/L/hr	0.1	0.2	ml/l/hr	1	02/22/01 16:00	GAV

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Canyon Fuel Company
SUFCO Mine

U - Not detected above the MDL B - Analyte detected in the associated Method Blank S - Results outside normal recovery limits
 J - Analyte detected below the PQL E - Result is outside of quantitation range R - RPD outside normal precision limits
 * - Result is greater than the associated action level



Quality Control Summary

Client: Canyon Fuel Company, LLC
Project: SUFCO
Project ID:

Report Number: 0102227-1
Date Reported: 03/06/01
Work Order: 0102227

EPA 160.1: Solids, Total Dissolved (TDS), Water

QC Type: Matrix Spike
Sample ID: 0102148-02B
Run ID: WC_010228J
Analysis Date: 02/28/01
Prep Batch ID: R11498
Units: mg/L
Seq No: 205515

Table with 9 columns: Parameter, Result, Spike Parent, True Value, Percent Recovery, Low Limit, High Limit, Duplicate Parent, RPD Limit. Row 1: Total dissolved solids, 67900, 63600, 1000, 435.

QC Type: Matrix Spike Duplicate
Sample ID: 0102148-03B
Run ID: WC_010228J
Analysis Date: 02/28/01
Prep Batch ID: R11498
Units: mg/L
Seq No: 205516

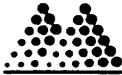
Table with 9 columns: Parameter, Result, Spike Parent, True Value, Percent Recovery, Low Limit, High Limit, Duplicate Parent, RPD Limit. Row 1: Total dissolved solids, 68600S(2s), 63600, 1000, 510, 50, 150.

2s: High level of target analyte in parent sample - spike is insignificant

QC Type: Sample Duplicate
Sample ID: 0102274-01A DUP
Run ID: WC_010228J
Analysis Date: 02/28/01
Prep Batch ID: WC_010228J
Units: mg/L
Seq No: 205535

Table with 9 columns: Parameter, Result, Spike Parent, True Value, Percent Recovery, Low Limit, High Limit, Duplicate Parent, RPD Limit. Row 1: Total dissolved solids, 68600, 67900, 1.1, 20.

U - Not detected above the MDL B - Analyte detected in the associated Method Blank S - Results outside normal recovery limits
J - Analyte detected below the PQL E - Result is outside of quantitation range R - RPD outside normal precision limits
NC - Not Calculated: Duplicate value(s) are less than the MDL



Quality Control Summary

Client: Canyon Fuel Company, LLC
Project: SUFCO
Project ID:

Report Number: 0102227-1
Date Reported: 03/06/01
Work Order: 0102227

QC Type: Laboratory Control Spike
Sample ID: LCS
Run ID: WC_010228J

Analysis Date: 02/28/01
Prep Batch ID: WC_010228J

Units: mg/L
Seq No: 205536

Table with 9 columns: Parameter, Result, Spike Parent, True Value, Percent Recovery, Low Limit, High Limit, Duplicate Parent, RPD Limit. Row 1: Total dissolved solids, 237, 250, 94.8, 90, 110.

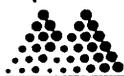
QC Type: Method Blank
Sample ID: BLK
Run ID: WC_010228J

Analysis Date: 02/28/01
Prep Batch ID: WC_010228J

Units: mg/L
Seq No: 205537

Table with 9 columns: Parameter, Result, Spike Parent, True Value, Percent Recovery, Low Limit, High Limit, Duplicate Parent, RPD Limit. Row 1: Total dissolved solids, U, 0, 0, 0, 13.

U - Not detected above the MDL B - Analyte detected in the associated Method Blank S - Results outside normal recovery limits
J - Analyte detected below the PQL E - Result is outside of quantitation range R - RPD outside normal precision limits
NC - Not Calculated: Duplicate value(s) are less than the MDL



Quality Control Summary

Client: Canyon Fuel Company, LLC
Project: SUFCO
Project ID:

Report Number: 0102227-1
Date Reported: 03/06/01
Work Order: 0102227

EPA 160.2: Solids, Total Suspended (TSS), Water

QC Type: Sample Duplicate
Sample ID: 0102287-03D DUP
Run ID: WC_010228H
Analysis Date: 02/28/01
Prep Batch ID: WC_010228H
Units: mg/L
Seq No: 205010

Parameter	Result	Spike Parent	True Value	Percent Recovery	Low Limit	High Limit	Duplicate Parent	RPD RPD Limit
Total suspended solids	240J						240 J	3.4 20

QC Type: Method Blank
Sample ID: BLK
Run ID: WC_010228H
Analysis Date: 02/28/01
Prep Batch ID: WC_010228H
Units: mg/L
Seq No: 205011

Parameter	Result	Spike Parent	True Value	Percent Recovery	Low Limit	High Limit	Duplicate Parent	RPD RPD Limit
Total suspended solids	U	0	0	0		5		

QC Type: Laboratory Control Spike
Sample ID: LCS
Run ID: WC_010228H
Analysis Date: 02/28/01
Prep Batch ID: WC_010228H
Units: mg/L
Seq No: 205012

Parameter	Result	Spike Parent	True Value	Percent Recovery	Low Limit	High Limit	Duplicate Parent	RPD RPD Limit
Total suspended solids	146		150	97.3	90	110		

U - Not detected above the MDL

B - Analyte detected in the associated Method Blank

S - Results outside normal recovery limits

J - Analyte detected below the PQL

E - Result is outside of quantitation range

R - RPD outside normal precision limits

NC - Not Calculated: Duplicate value(s) are less than the MDL



Mountain States Analytical, Inc.

1645 West 2200 South · Salt Lake City, Utah 84119 · 800-973-6724



Quality Control Summary

Client: Canyon Fuel Company, LLC
Project: SUFCO
Project ID:

Report Number: 0102227-1
Date Reported: 03/06/01
Work Order: 0102227

SW-846 6010B: Metals by ICP, Water

QC Type: Method Blank
Sample ID: PBW-5255
Run ID: TJA61E_010228B
Analysis Date: 02/28/01 11:26
Prep Batch ID: 5255
Units: mg/L
Seq No: 204546

Parameter	Result	Spike Parent	True Value	Percent Recovery	Low Limit	High Limit	Duplicate Parent	RPD Limit
Iron	0.019	0	0	0	-0.4	0.2		

QC Type: Laboratory Control Sample (Water)
Sample ID: LCSW-5255
Run ID: TJA61E_010228B
Analysis Date: 02/28/01 11:28
Prep Batch ID: 5255
Units: mg/L
Seq No: 204547

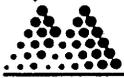
Parameter	Result	Spike Parent	True Value	Percent Recovery	Low Limit	High Limit	Duplicate Parent	RPD Limit
Iron	2.02		2.00	101	75	125		

QC Type: Sample Duplicate
Sample ID: 0102226-01B D
Run ID: TJA61E_010228B
Analysis Date: 02/28/01 11:33
Prep Batch ID: 5255
Units: mg/L
Seq No: 204549

Parameter	Result	Spike Parent	True Value	Percent Recovery	Low Limit	High Limit	Duplicate Parent	RPD Limit
Iron	0.49J						0.59 J	17 20

U - Not detected above the MDL
 J - Analyte detected below the PQL
 NC - Not Calculated: Duplicate value(s) are less than the MDL
 B - Analyte detected in the associated Method Blank
 E - Result is outside of quantitation range
 S - Results outside normal recovery limits
 R - RPD outside normal precision limits

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Quality Control Summary

Client: Canyon Fuel Company, LLC
Project: SUFCO
Project ID:

Report Number: 0102227-1
Date Reported: 03/06/01
Work Order: 0102227

QC Type: Matrix Spike
Sample ID: 0102226-01B MS
Run ID: TJA61E_010228B
Analysis Date: 02/28/01 11:35
Prep Batch ID: 5255
Units: mg/L
Seq No: 204550

Table with 9 columns: Parameter, Result, Spike Parent, True Value, Percent Recovery, Low Limit, High Limit, Duplicate Parent, RPD Limit. Row for Iron: 2.43, 0.59 J, 2.00, 92.0, 75, 125.

QC Type: Matrix Spike Duplicate
Sample ID: 0102226-01B MSD
Run ID: TJA61E_010228B
Analysis Date: 02/28/01 11:38
Prep Batch ID: 5255
Units: mg/L
Seq No: 204551

Table with 10 columns: Parameter, Result, Spike Parent, True Value, Percent Recovery, Low Limit, High Limit, Duplicate Parent, RPD Limit. Row for Iron: 2.46, 0.59 J, 2.00, 93.6, 75, 125, 2.43, 1.3, 20.

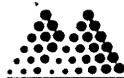
QC Type: Post Digestion/Distillation Spike
Sample ID: 0102226-01B A
Run ID: TJA61E_010228B
Analysis Date: 02/28/01 11:40
Prep Batch ID: 5255
Units: mg/L
Seq No: 204552

Table with 9 columns: Parameter, Result, Spike Parent, True Value, Percent Recovery, Low Limit, High Limit, Duplicate Parent, RPD Limit. Row for Iron: 2.57, 0.59 J, 2.00, 99.1, 75, 125.

QC Type: Serial Dilution
Sample ID: 0102226-01B L
Run ID: TJA61E_010228B
Analysis Date: 02/28/01 11:43
Prep Batch ID: 5255
Units: mg/L
Seq No: 204553

Table with 9 columns: Parameter, Result, Spike Parent, True Value, Percent Recovery, Low Limit, High Limit, Duplicate Parent, RPD Limit. Row for Iron: U, 0.59 J, NC, 10.

U - Not detected above the MDL
J - Analyte detected below the PQL
NC - Not Calculated: Duplicate value(s) are less than the MDL
B - Analyte detected in the associated Method Blank
E - Result is outside of quantitation range
S - Results outside normal recovery limits
R - RPD outside normal precision limits



Quality Control Summary

Client: Canyon Fuel Company, LLC
Project: SUFCO
Project ID:

Report Number: 0102227-1
Date Reported: 03/06/01
Work Order: 0102227

SW-846 7470A: Mercury by CVAA, Water

QC Type: Method Blank
Sample ID: 0102208-01A Analysis Date: 02/23/01 19:43 Units: µg/L
Run ID: FIMS_010223B Prep Batch ID: 5215 Seq No: 203510

Parameter	Result	Spike Parent	True Value	Percent Recovery	Low Limit	High Limit	Duplicate Parent	RPD Limit
Mercury	-0.076	0	0	0	-0.1	0.1		
Sample Comments: CLIENT QC								

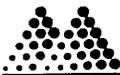
QC Type: Laboratory Control Sample (Water)
Sample ID: 0102208-02A Analysis Date: 02/23/01 19:44 Units: µg/L
Run ID: FIMS_010223B Prep Batch ID: 5215 Seq No: 203511

Parameter	Result	Spike Parent	True Value	Percent Recovery	Low Limit	High Limit	Duplicate Parent	RPD Limit
Mercury	5.30		5.00	106	80	120		
Sample Comments: CLIENT QC								

QC Type: Sample Duplicate
Sample ID: 0102208-03B D Analysis Date: 02/23/01 19:47 Units: µg/L
Run ID: FIMS_010223B Prep Batch ID: 5215 Seq No: 203514

Parameter	Result	Spike Parent	True Value	Percent Recovery	Low Limit	High Limit	Duplicate Parent	RPD Limit
Mercury	U						U	NC 20

U - Not detected above the MDL B - Analyte detected in the associated Method Blank S - Results outside normal recovery limits
 J - Analyte detected below the PQL E - Result is outside of quantitation range R - RPD outside normal precision limits
 NC - Not Calculated: Duplicate value(s) are less than the MDL



Quality Control Summary

Client: Canyon Fuel Company, LLC
Project: SUFCO
Project ID:

Report Number: 0102227-1
Date Reported: 03/06/01
Work Order: 0102227

QC Type: Matrix Spike
Sample ID: 0102208-03B MS
Run ID: FIMS_010223B

Analysis Date: 02/23/01 19:49
Prep Batch ID: 5215

Units: µg/L
Seq No: 203515

Parameter	Result	Spike Parent	True Value	Percent Recovery	Low Limit	High Limit	Duplicate Parent	RPD Limit
Mercury	5.21	U	5.00	104	80	120		

QC Type: Matrix Spike Duplicate
Sample ID: 0102208-03B MSD
Run ID: FIMS_010223B

Analysis Date: 02/23/01 19:50
Prep Batch ID: 5215

Units: µg/L
Seq No: 203516

Parameter	Result	Spike Parent	True Value	Percent Recovery	Low Limit	High Limit	Duplicate Parent	RPD Limit
Mercury	5.26	U	5.00	105	80	120	5.21	0.92 20

QC Type: Serial Dilution
Sample ID: 0102208-03B L
Run ID: FIMS_010223B

Analysis Date: 02/23/01 19:54
Prep Batch ID: 5215

Units: µg/L
Seq No: 203517

Parameter	Result	Spike Parent	True Value	Percent Recovery	Low Limit	High Limit	Duplicate Parent	RPD Limit
Mercury	U						U	NC 10

QC Type: Post Digestion/Distillation Spike
Sample ID: 0102208-03B A
Run ID: FIMS_010223B

Analysis Date: 02/23/01 20:12
Prep Batch ID: 5215

Units: µg/L
Seq No: 203529

Parameter	Result	Spike Parent	True Value	Percent Recovery	Low Limit	High Limit	Duplicate Parent	RPD Limit
Mercury	5.67	U	5.00	113	85	115		

U - Not detected above the MDL

B - Analyte detected in the associated Method Blank

S - Results outside normal recovery limits

J - Analyte detected below the PQL

E - Result is outside of quantitation range

R - RPD outside normal precision limits

NC - Not Calculated: Duplicate value(s) are less than the MDL



Quality Control Summary

Client: Canyon Fuel Company, LLC
Project: SUFCO
Project ID:

Report Number: 0102227-1
Date Reported: 03/06/01
Work Order: 0102227

EPA 1664: Oil & Grease (HEM) SPE,, Water

QC Type: Method Blank
Sample ID: MB
Run ID: EXT LAB_010301A
Analysis Date: 03/01/01
Prep Batch ID: EXT LAB_010301A
Units: mg/L
Seq No: 205276

Parameter	Result	Spike Parent	True Value	Percent Recovery	Low Limit	High Limit	Duplicate Parent	RPD Limit
Oil & Grease	0.70	0	0	0		4		

QC Type: Laboratory Control Spike
Sample ID: LCS
Run ID: EXT LAB_010301A
Analysis Date: 03/01/01
Prep Batch ID: EXT LAB_010301A
Units: mg/L
Seq No: 205277

Parameter	Result	Spike Parent	True Value	Percent Recovery	Low Limit	High Limit	Duplicate Parent	RPD Limit
Oil & Grease	40.1		40.2	99.8	79	114		

QC Type: Matrix Spike
Sample ID: 0102297-01AMS
Run ID: EXT LAB_010301A
Analysis Date: 03/01/01
Prep Batch ID: EXT LAB_010301A
Units: mg/L
Seq No: 205280

Parameter	Result	Spike Parent	True Value	Percent Recovery	Low Limit	High Limit	Duplicate Parent	RPD Limit
Oil & Grease	37.1	U	40.2	92.3	79	114		

U - Not detected above the MDL
 J - Analyte detected below the PQL
 NC - Not Calculated: Duplicate value(s) are less than the MDL
 B - Analyte detected in the associated Method Blank
 E - Result is outside of quantitation range
 S - Results outside normal recovery limits
 R - RPD outside normal precision limits

Mountain States Analytical, Inc.

Sample Receipt Checklist

Client Name Canyon Fuel Company
Carrier: UPS

Work Order No. 0102227
Carrier Number: 137976390310035525

Cooler Information:

Cooler Number/ID: M-3002 Surface Radioactivity Reading (If required) N/A mR/hr Ludlum Model 3 Serial # N/A
Condition of Shipping Container: Good Fair Damaged (explain) _____
Cooler Sealed (taped): Yes No Not Applicable
Custody Seals Present: Yes No Not Applicable
Intact Broken Seal Number: _____
Coolant: Ice Blue Ice None Other: _____
State of Coolant: Frozen Partially Frozen Melted
Temperature: 3.0 Thermometer ID: 3910 Correction Factor: _____ Temp Blank Included: Yes No
Packing Description: Samples between blue ice packs, bubble wrap in void space above samples and blue ice

Chain-Of-Custody Information:

COC Present: Yes No Other: _____
COC Number(s): 21723, 21724
COC signed (relinquished and received): Yes No Not Applicable
COC agrees with sample labels: Yes No Not Applicable
Notes: _____

Sample Information:

Samples included in cooler: PT002(x6), PT003(x3)

Custody Seals Present: Yes No Not Applicable Other _____
Intact Broken Seal Number(s) _____

Sample containers intact: Yes No Notes: _____
Samples in proper containers: Yes No _____
Sufficient sample volume: Yes No _____
All samples received in hold time: Yes No _____

Water - VOA's have zero headspace: Yes No Not Applicable Pre-preserved with HCl: YES NO
Notes: _____

Water - pH acceptable upon receipt: Yes Adjusted (see comments below) Not Applicable
HNO₃ = <2 H₂SO₄ = <2 NaOH = _____ ZnAC / NaOH = _____

Water > pH adjusted: (MSAI Tracking No.)
HNO₃ _____ H₂SO₄ _____ NaOH _____
ZnAC _____ Na₂SO₄ _____ Other _____

Notes: _____

Cooler Contents Inspected & Verified By: T. Adams

Date: 2/22/01 Time: 1315