3RP-037

GW monitoring report

DATE: 2004



March 31, 2005

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Certified: 70993400001842167364

RECEIVED

Glen Von Gonten New Mexico Oil Conservation Division APR 06 2005 1220 South St. Francis Drive Oil Conservation Division APR 00 2005 Santa Fe, NM 87505 Environmental Bureau RE: 2004 Annual Groundwater Investigation and Remediation Reports Environmental Bureau

San Juan Basin, New Mexico

Dear Mr. von Gonten:

As required in Burlington Resources approved Groundwater Investigation and Remediation Plan dated August, 1998, enclosed are the 2004 annual reports for Burlington's groundwater impact sites in the San Juan Basin. Separate reports are enclosed for the following locations:

| 3RP 66 | Cozzens B#1 |
|--------|---|
| 320 69 | Hampton #4M |
| 31771 | Johnson Federal #4 Metering Station |
| 379173 | Flora Vista (ENTER PRISE FIELD SUCCES - FLORADCE VISTA #1 |
| 3RP 37 | Marcotte Pool Unit #1 (ひちか) 、 ひのーの45-29466 |
| - | Sategna #2 (30-045-07974) |

If you have questions or additional information is needed, please contact me at (505) 326-9537.

Sincerely,

reas Min

Gregg Wurtz Sr. Environmental Representative

Attachments - Groundwater Investigation and Remediation Reports

cc: Denny Foust - NMOCD Aztec WFS - Mark Harvey (Cozzens B#1, Hampton #4M) EPFS - Scott Pope (Johnson Fed. #4,) Facility and Correspondence Files

3RP - 37

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BURLINGTON RESOURCES 2004 ANNUAL GROUNDWATCER REPORT

Sategna #2 Oil Conservation Division Environmental Bureau

SITE DETAILS

SEC 21, 29N, 11W

Location: Unit Letter K Section 22, Township 30N, Range 12W; San Juan County, New Mexico Land Type: FEE

Background

The Sategna #2 is a Dakota well that was drilled and completed in 1960. Historic petroleum impacted soils were discovered during berm maintenance and open top water pit tank replacement activities. Approximately 6000 cu yds of contaminated soil were removed and replaced during remediation activities. The potential sources of the contamination include earthen pits operated by Southland Royalty, BR, and PNM/Williams. The extent of contamination and remediation was compounded by a shallow ground water regime.

Hydrology and Geology

The location is located in an OCD designated vulnerable area. The San Jun River channel is located approximately 1/2 mile to the south. The surface is used for farming grass and alfalfa crops. The southern boundary of the landowner's property and the approximate extent of contamination is an irrigation return flow ditch. The landowner reported the ditch was constructed to receive ground water from the upgradient irrigation activities and flow to a small pond within the flood plane of the San Juan River. No flowing water into or along the irrigation ditch was observed at the time of the excavation and concurrent with irrigation. No evidence of ground water contamination was observed in the irrigation ditch south of the excavation.

The geology of the immediate area is silty sand topsoil from the surface to a depth of approximately 3 feet. The subsoil consists of a fine to medium grained clean sand from 4 to 10 feet. The water table was discovered to be shallow at approximately 3.5 to 4 feet below surface. The hydraulic gradient is estimated to be toward the south in a direction toward the river. Actively irrigated fields surround the location to the north and west of the area and extend approximately one mile to the north. The Bloomfield highway is the northern boundary of the landowners property.

The hydrology of the area is directly affected by the irrigation activities of the landowner and the San Juan River regime. The seasonal irrigation activities may have cause fluctuations in the level of the water table in the area of the impacted soils. The irrigation activities have increased the quantity of water flowing in the unconfined water bearing formation that underlies this area. In addition, the proximity of the location to the flood plain of the San Juan River may also cause natural fluctuations in the water table. Moreover, the natural paleo sand channels (i.e., zones of higher hydraulic conductivity) were observed during the excavation work and may have directed

and facilitated movement of water and contamination in the subsurface soils. These fluctuations in the water table and the concentrating effect of buried sand channels increased and controlled the extent and volume of soil impacted.

The only domestic use of ground water is by the landowner. The landowner obtains his potable water supply from two ground water wells on the property. The wells are completed in a lower sandstone aquifer at approximately 90 feet and approximately 0.5 miles upgradient of the petroleum impacted soil discovered. The potential for impacting these wells is considered very unlikely.

Environmental Clean-up

Contamination Discovery

Petroleum impacted soils were discovered on the location during routine berm maintenance activities. In addition, below grade fiberglass drain tank installed in 1992 was replaced with a steel drain tank.

Contamination Investigation

Single backhoe bucket test holes, field monitor testing, and visual staining were used to delineate horizontal and vertical extent of contamination prior to the major excavation activities (Figure 1 Site Map). In addition, current and historical BR lease operators were contacted and a file search was completed to determine possible historic sources including old earthen pits and locations of spills and tanks.

The soil impacts observed during the excavation work were typical of a light phase hydrocarbon release to the water table. The subsoil horizon contamination range of 2 to 6 feet is mostly from the season irrigation impacted fluctuations of the water table causing smearing the soils with the oil suspended on the water table.

Potential Sources of Contamination

Based on well records and operator and landowner knowledge three earthen pits were believed to exist on the location: 1) old Southland Royalty location; 2) current BR fiberglass pit location, and 3) PNM/Williams dehydrator pit. The landowner also reported a history of well problems.

Southland Earth Pit

The Southland Royalty pit location was approximate and minor contamination was identified during excavation activities.

BR Earthen Pit

The BR drain pit was an earthen pit until the fiberglass tank was installed in 1993. The BR fiberglass tank and production condensate tank were visually examined and no obvious structural problems or leaks were observed. The plastic secondary containment liner of the fiberglass tank

and the tank excavation soils displayed evidence of condensate. The excavation activities determined this pit as one of the potential source of contamination.

PNM/Williams Earthen Pit

The historic PNM/Williams dehydrator pit location was identified from operator knowledge. Based on the excavation results the historic PNM/Williams dehydrator pit was a major source of contamination. Williams was contacted but denied they had a pit at this location. The landowner remembered the pit being closed within the last three years. No record of OCD pit closers was found and William's provided two filed forms that documented no pit was on the location. A soil sample was collected from beneath the PNM/Williams location to fingerprint the presence of glycol in the soil in an effort to demonstrate William's responsibility in the remediation. Moreover, Williams was contacted asked to visit the location during excavation work.

Well Head

No contamination was identified near the Sategna #2 well head. The landowner remembered the well might have had problems that caused condensate to seep to the surface on the side of the irrigation return ditch. No evidence of this seepage was identified.

Soil Remediation

Approximately 400 cu. yds. of topsoil overburden was removed and stockpiled on location. Approximately 6000 cu. yds. of contaminated soil was removed above and below the water table. Initially the contaminated soils were land farmed off location at a commercial landfarm on Crouch Mesa and later on BR Production locations Congress 5E and Congress 16. The OCD and BLM were contacted and a written proposal was approved to allow land farming on the selected BR production locations. The land farms on the Congress 5E and Congress 16 were cleaned and the soil reused in a suitable manner.

Approximately 5500 cu. yds of sandy loam subsoil suitable for the landowner's agricultural uses was backfilled into the excavation. The landowner was also provided soil fertilizer amendments and seed to rehabilitate the disturbed land.

Remedial Action

Soil three point composite samples were collected from the walls and bottom of the excavation to confirm soil contamination was below OCD standards. In addition, 80 bbls of a potassium permanganate solution was added to the excavation. The potassium permanganate was added to enhance remediation of any residual low-level petroleum impacts remaining. A water grab sample was collected from the standing water that accumulated in the excavation during excavation. The Site Map of the excavation shows the sample locations and the laboratory analysis results are include in Attachment 1. The soil and water samples collected were analyzed for BTEX and total petroleum hydrocarbons. The analyses reported were below the OCD contaminate specific remediation levels.

The installation of a temporary source ground water well (i.e., Monitoring Well TMW-1) and another downgradient temporary well (i.e., Monitoring Well TMW-2) were deferred until 2005

because of the rehabilitation and farming activities. The wells were installed in the first quarter of 2005 while farming was stopped. The two temporary wells were used to characterize the water quality given the large size of the excavation. The temporary wells are being used to minimize impacts to the landowners farming activities. The temporary wells installed were analyzed for a general list of WCCC parameters and BTEX. A map of the site is included as Figure 1.

CONCLUSIONS

The petroleum impacted soil was removed to the extent practical at this location. The soil and water sampling analysis from the walls and bottom of the excavation were determined to be below the OCD contaminate specific remediation levels. The monitoring wells were sampled Feb. 2005 to determine compliance with the New Mexico Groundwater Standards. No parameters were reported above the New Mexico Groundwater Standards from the samples collected from TMW-1 and TMW-2.

RECOMMENDATIONS

- Burlington Resources to submit for closure.

| Attachments: | Figure 1 - Site Map and Sampling Location Table |
|--------------|--|
| | Table 1 – Excavation Soil and Water Analytical Results |
| | Table 2 – 2005 Ground Water Analytical Results |

FIGURE 1 SATEGNA #2 Site map

S: / grndwatr/GW-Sites/JohnFed#4/99Annual.doc

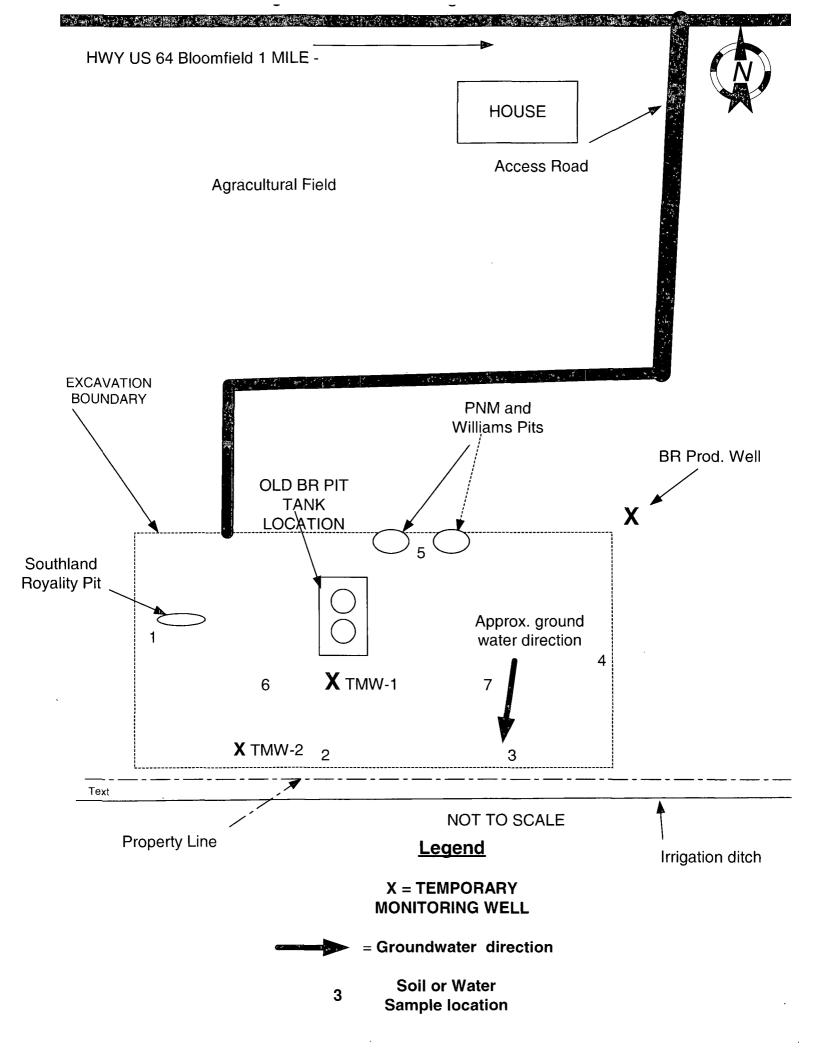


Table 12002 Soil and Ground WaterANALYTICAL RESULTS

S: / gmdwatr/GW-Sites/JohnFed#4/99Annual.doc

| Excavation Soil sample | Laboratory Identifier | Matrix | Excavation Location |
|------------------------|-----------------------|--------|---------------------|
| Location | name | | (See Site Map) |
| 1 | Sategna #2 BR#2 | Soil | West wall |
| 2 | Sategna 3 | Soil | South wall |
| 3 | Sategna 1A NE | Soil | South wall |
| 4 | Sategna A | Soil | East wall |
| 5 | Sategna B | Soil | North Wall |
| 6 | Sategna 3 A | Soil | Excavation bottom |
| 7 | Sategna #2 | Water | Grab location |

1

S: / grndwatr/GW-Sites/JohnFed#4/99Annual.doc

| | Soil | | 8 | T | m | × | BTEX | TPH |
|---------------|-------------------|-------------------------------------|-------------|------------|----------------------------|---------|--|---------------|
| Well Name | sample | Sample Lab # | mg/kg | mg/kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Action Levels | | | 10 | na | na | na | 50 | 100 |
| Sategna #2 | | | | | | | | |
| | | | | | 8. A.A. 13 (1998) - S.A.A. | | Salar Sector | |
| | -1 | Sategna #2 BR#2 | <u></u> | Յ | ۍ 5 | <15 | <30 | <100 |
| | 2 | Sategna 3# | <5 | <u>^</u> 5 | ^ 5 | <15 | <30 | <100 |
| | з | Sategna 1A NE | ۸ 5 | <u>^</u> 5 | <u>ۍ</u> | <15 | <30 | <100 |
| | 4 | Sategna A | ^5 | ۸ 5 | ۸ 5 | <15 | <30 | <100 |
| | ഗ | Sategna B | ^ ፓ | ^ თ | ۸ ن | <15 | <30 | <100 |
| | 6 | Sategna 3A | ~5 | ×2 | ^ ហ | <15 | <30 | <100 |
| Water | Contraction P. S. | and the second of the second second | A A A A A A | NG ANG | 4474-234 B | 来在方台都是某 | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | AN ANALY TRAT |
| Action levels | | | 10 ppb | 750 ppb | 750ppb | 620ppb | na | na |
| Grab sample | 7 | Sategna #2 | ŝ | ~5 | ራ | 66 | 66 | 355.00 |
| | | | | | | | | |
| | | | | | | | | 1 |

Table 1 Sategna #2 Soil Sampling Data

na = not applicable

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| Client: | Burlington Resources | |
|------------|----------------------|--------------------------|
| Project: | San Juan Division | Date Reported: 05/28/02 |
| Sample ID: | SATEGNA #2 BR#2 | Date Sampled: 04/28/02 |
| Lab ID: | 0302W02001 | Date Received: 05/03/02 |
| Matrix: | Soil | Date Extracted: 05/10/02 |
| Condition: | Cool/Intact | Date Analyzed: 05/10/02 |

| | Analytical | | |
|--------------------------------------|------------|-------|-------|
| Parameter | Result | PQL | Units |
| BTEX - Method 8021B | | | |
| Benzene | <5 | 5 | mg/Kg |
| Toluene | <5 | 5 | mg/Kg |
| Ethylbenzene | <5 | 5 | mg/Kg |
| Xylenes (total) | <15 | 15 | mg/Kg |
| Total BTEX | <30 | 30 | mg/Kg |
| Quality Control - Surrogate Recovery | % | QC Li | mits |
| a,a,a-Trifluorotoluene(SUR-8021B) | 95 | 70 - | 130 |
| 4-Bromofluorobenzene(SUR-8021B) | 95 | 70 - | 130 |

Reference: Method 8021b, Volatile Organic Compounds, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, United States Environmental Protection Agency, SW-846, Volume IB.

Reviewed By:

Analyst:

| lington Resources | |
|------------------------------|--|
| Juan Division Date Reported: | 05/28/02 |
| TEGNA #2 BR#2 Date Sampled: | 04/28/02 |
| 2W02001 Date Received: | 05/03/02 |
| Date Extracted: | 05/10/02 |
| DI/Intact Date Analyzed: | 05/10/02 |
| | rlington ResourcesDate Reported:n Juan DivisionDate Sampled:TEGNA #2 BR#2Date Sampled:D2W02001Date Received:D2W02001Date Extracted:IDate Analyzed: |

| | Analytical | | |
|---------------------------------------|------------|---------------------------------------|-------|
| Parameter | Result | PQL | Units |
| DRO - METHOD 8015 | | · · · · · · · · · · · · · · · · · · · | |
| Diesel Range Organics (C10 - C22) | <50 | 50 | mg/Kg |
| Gasoline Range Organics(C6-C10) | <50 | 50 | mg/Kg |
| Total Petroleum Hydrocarbons (C6-C22) | <100 | 100 | mg/Kg |

Reference: Method 8015AZ, C10 - C32 Hydrocarbons in Soil, Arizona Department of Health Services, Revision - 1.0, 09/25/98.

Reviewed By:

Analyst:

| Client: | Burlington Resources | | | |
|------------|----------------------|-----------------|----------|--|
| Project: | TPH/BTEX | Date Reported: | 08/01/02 | |
| Sample ID: | Sategna #3 | Date Sampled: | 07/09/02 | |
| Lab ID: | 0302W02853 | Date Received: | 07/18/02 | |
| Matrix: | Soil | Date Extracted: | N/A | |
| Condition: | Cool/Intact | Date Analyzed: | 07/31/02 | |
| | | | | |

| | Analytical | | |
|--------------------------------------|------------|--------|-------|
| Parameter | Result | PQL | Units |
| BTEX - Method 8021B | | | |
| Benzene | <5 | 5 | mg/Kg |
| Toluene | <5 | 5 | mg/Kg |
| Ethylbenzene | <5 | 5 | mg/Kg |
| Total BTEX | <30 | 30 | mg/Kg |
| Xylenes (total) | <15 | 15 | mg/Kg |
| Quality Control - Surrogate Recovery | % | QC Li | mits |
| a,a,a-Trifluorotoluene(SUR-8021B) | 74 | 70 - 1 | 130 - |
| 4-Bromofluorobenzene(SUR-8020 | 68 | 70 - 1 | 130 |

Reference: Method 8021b, Volatile Organic Compounds, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, United States Environmental Protection Agency, SW-846, Volume IB.

Reviewed By

Analyst: Jahrille

Burlington Resources Client: Project: TPH/BTEX Sample ID: Sategna #3 Lab ID: 0302W02853 Matrix: Soil **Condition:** Cool/Intact

Date Reported: 08/01/02 **Date Sampled: 07/09/02** Date Received: 07/18/02 Date Extracted: N/A Date Analyzed: 07/31/02

70 - 130

| Parameter | Analytical Result | PQL | Units |
|--------------------------------------|----------------------|-------|-------|
| TPH - METHOD 8015 | | | |
| Gasoline Range Organics(C6-C10) | <50 | 50 | mg/Kg |
| Diesel Range Organics (C10 - C22) | <50 | 50 | mg/Kg |
| | <100 | 100 | mg/Kg |
| Quality Control - Surrogate Recovery | % | QC Li | mits |

79

o-Terphenyl(SUR-8015)

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Reference: Method 8015AZ, C10 - C32 Hydrocarbons in Soil, Arizona Department of Health Services, Revision - 1.0, 09/25/98. SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

Reviewed By

Analyst: _____

Client:Burlington ResourcesProject:TPH/BTEXSample ID:Sategna 1A NELab ID:0302W02855Matrix:SoilCondition:Cool/Intact

Date Reported:08/01/02Date Sampled:07/10/02Date Received:07/18/02Date Extracted:N/ADate Analyzed:07/31/02

| Parameter | Analytical Result | PQL | Units |
|--------------------------------------|----------------------|-------------------|-------|
| BTEX - Method 8021B | | | |
| Benzene | <5 | 5 | mg/Kg |
| Toluene | <5 | 5 | mg/Kg |
| Ethylbenzene | <5 | 5 | mg/Kg |
| Total BTEX | <30 | 30 | mg/Kg |
| Xylenes (total) | <15 | 15 | mg/Kg |
| Quality Control - Surrogate Recovery | % | QC Li | mits |
| a,a,a-Trifluorotoluene(SUR-8021B) | 97 | 70 - 1 | 130 |
| 4-Bromofluorobenzene(SUR-8020 | 82 | 70 - ⁻ | 130 |

Reference: Method 8021b, Volatile Organic Compounds, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, United States Environmental Protection Agency, SW-846, Volume IB.

Reviewed By

Analyst: John With

Client:Burlington ResourcesProject:TPH/BTEXSample ID:Sategna 1A NELab ID:0302W02855Matrix:SoilCondition:Cool/Intact

Date Reported:08/01/02Date Sampled:07/10/02Date Received:07/18/02Date Extracted:N/ADate Analyzed:07/31/02

| _ | Analytical | | |
|---------------------------------------|------------|----------|-------|
| Parameter | Result | PQL | Units |
| TPH - METHOD 8015 | | <u> </u> | |
| Gasoline Range Organics(C6-C10) | <50 | 50 | mg/Kg |
| Diesel Range Organics (C10 - C22) | <50 | 50 | mg/Kg |
| Total Petroleum Hydrocarbons (C6-C22) | <100 | 100 | mg/Kg |

| Quality Control - Surrogate Recovery | % | QC Limits |
|--------------------------------------|------|-----------|
| o-Terphenyl(SUR-8015) | . 79 | 70 - 130 |

Reference: Method 8015AZ, C10 - C32 Hydrocarbons in Soil, Arizona Department of Health Services, Revision - 1.0, 09/25/98. SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

Reviewed By

Analyst: Jach lotte

| Client: | Burlington Resources | | |
|------------|----------------------|------------------------|----|
| Project: | TPH/BTEX | Date Reported: 08/01/0 |)2 |
| Sample ID: | Sategna A | Date Sampled: 07/08/0 |)2 |
| Lab ID: | 0302W02852 | Date Received: 07/18/0 |)2 |
| Matrix: | Soil | Date Extracted: N/A | · |
| Condition: | Cool/Intact | Date Analyzed: 07/31/0 |)2 |

| | Analytical | | |
|--------------------------------------|------------|-----------|-------|
| Parameter | Result | PQL | Units |
| BTEX - Method 8021B | <u></u> | | |
| Benzene | <5 | 5 | mg/Kg |
| Toluene | <5 | 5 | mg/Kg |
| Ethylbenzene | <5 | 5 | mg/Kg |
| Total BTEX | <30 | 30. | mg/Kg |
| Xylenes (total) | <15 | 15 | mg/Kg |
| Quality Control - Surrogate Recovery | % | QC Limits | |
| a,a,a-Trifluorotoluene(SUR-8021B) | 77 | 70 - | 130 |
| 4-Bromofluorobenzene(SUR-8020 | . 71 | 70 - 1 | 130 |

Reference: Method 8021b, Volatile Organic Compounds, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, United States Environmental Protection Agency, SW-846, Volume IB.

Reviewed By: M

Analyst:

Client:Burlington ResourcesProject:TPH/BTEXSample ID:Sategna ALab ID:0302W02852Matrix:SoilCondition:Cool/Intact

Date Reported:08/01/02Date Sampled:07/08/02Date Received:07/18/02Date Extracted:N/ADate Analyzed:07/31/02

| | Analytical | | |
|---------------------------------------|---------------------------------------|-----|-------|
| Parameter | Result | PQL | Units |
| TPH - METHOD 8015 | · · · · · · · · · · · · · · · · · · · | | |
| Gasoline Range Organics(C6-C10) | <50 | 50 | mg/Kg |
| Diesel Range Organics (C10 - C22) | <50 | 50 | mg/Kg |
| Total Petroleum Hydrocarbons (C6-C22) | <100 | 100 | mg/Kg |

| QC Limits | |
|-----------|----------|
| 70 - 130 | _ |
| | 70 - 130 |

Reference: Method 8015AZ, C10 - C32 Hydrocarbons in Soil, Arizona Department of Health Services, Revision - 1.0, 09/25/98. SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

Reviewed By:

Analyst:

Client:Burlington ResourcesProject:TPH/BTEXSample ID:Sategna BLab ID:0302W02856Matrix:SoilCondition:Cool/Intact

Date Reported:08/01/02Date Sampled:07/10/02Date Received:07/18/02Date Extracted:N/ADate Analyzed:07/31/02

| | Analytical | | |
|--------------------------------------|------------|-----------|-------|
| Parameter | Result | PQL | Units |
| BTEX - Method 8021B | | | |
| Benzene | <5 | 5 | mg/Kg |
| Toluene | <5 | 5 | mg/Kg |
| Ethylbenzene | <5 | 5 | mg/Kg |
| Total BTEX | <30 | 30 | mg/Kg |
| Xylenes (total) | <15 | 15 | mg/Kg |
| Quality Control - Surrogate Recovery | % | QC Limits | |
| a,a,a-Trifluorotoluene(SUR-8021B) | 90 | 70 - | 130 |
| 4-Bromofluorobenzene(SUR-8020 | 76 | 70 - | 130 |

Reference: Method 8021b, Volatile Organic Compounds, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, United States Environmental Protection Agency, SW-846, Volume IB.

Reviewed By

Analyst: Juli

| Client: | Burlington Resources | | | |
|------------|----------------------|-----------------|----------|--|
| Project: | TPH/BTEX | Date Reported: | 08/01/02 | |
| Sample ID: | Sategna B | Date Sampled: | 07/10/02 | |
| Lab ID: | 0302W02856 | Date Received: | 07/18/02 | |
| Matrix: | Soil | Date Extracted: | N/A | |
| Condition: | Cool/Intact | Date Analyzed: | 07/31/02 | |
| | | | | |

| | Analytical | | |
|---------------------------------------|------------|-----|-------|
| Parameter | Result | PQL | Units |
| TPH - METHOD 8015 | | | |
| Gasoline Range Organics(C6-C10) | <50 | 50 | mg/Kg |
| Diesel Range Organics (C10 - C22) | <50 | 50 | mg/Kg |
| Total Petroleum Hydrocarbons (C6-C22) | <100 | 100 | mg/Kg |

| Quality Control - Surrogate Recovery | % | QC Limits | |
|--------------------------------------|----|-----------|--|
| o-Terphenyl(SUR-8015) | 80 | 70 - 130 | |

Reference: Method 8015AZ, C10 - C32 Hydrocarbons in Soil, Arizona Department of Health Services, Revision - 1.0, 09/25/98. SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

Reviewed By

Analyst: JochW

Client: Burlington Resources TPH **Project:** Sample ID: Sategna 3A Lab ID: 0302W02859 Matrix: Soil Condition: Cool/Intact

Date Reported: 08/01/02 **Date Sampled: 07/01/02** Date Received: 07/18/02 Date Extracted: N/A Date Analyzed: 07/30/02

| , | Analytical | | |
|--------------------------------------|------------|--|-------|
| Parameter | Result | PQL | Units |
| BTEX - Method 8021B | | ······································ | |
| Benzene | <5 | 5 | mg/Kg |
| Toluene | <5 | 5 | mg/Kg |
| Ethylbenzene | <5 | 5 | mg/Kg |
| Xylenes (total) | <15 | 15 | mg/Kg |
| Total BTEX | <30 | 30 | mg/Kg |
| Quality Control - Surrogate Recovery | % | QC Limi | ts |
| 4-Bromofluorobenzene(SUR-8021B) | 80 | 70 - 130 | 0 - |
| a,a,a-Trifluorotoluene(SUR-8021B) | - 88 | 70 - 130 | 0 |

Reference: Method 8021b, Volatile Organic Compounds, Test Methods for Evaluating Solid Wasten Physical/Chemical Methods, United States Environmental

Reviewed By:

Analyst: Jachtothe

Protection Agenøy, SW-846, Volume IB.

Burlington Resources Client: **Project:** TPH Sample ID: Sategna 3A Lab ID: 0302W02859 Matrix: Soil **Condition:** Cool/Intact

Date Reported: 08/01/02 Date Sampled: 07/01/02 Date Received: 07/18/02 Date Extracted: 07/31/02 Date Analyzed: 07/30/02

| Parameter | Analytical Result | PQL | Units |
|---------------------------------------|----------------------|-----|-------|
| TPH - METHOD 8015 | | | |
| Gasoline Range Organics(C6-C10) | <50 | 50 | mg/Kg |
| Diesel Range Organics (C10 - C22) | <50 | 50 | mg/Kg |
| Total Petroleum Hydrocarbons (C6-C22) | <100 | 100 | mg/Kg |

| Quality Control - Surrogate Recovery | % | QC Limits |
|--------------------------------------|----|------------|
| o-Terphenyl(SUR-8015) | 82 | 70 - 130 _ |

Reference: Method 8015AZ, C10 - C32 Hydrocarbons in Soil, Arizona Department of Health Services, Revision - 1.0, 09/25/98. SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, Nøvenber, 1986.

Reviewed By

Analyst:

| Client: | Burlington Resources | | • | |
|-------------|----------------------|-----------------|----------|--|
| Project: | San Juan Division | Date Reported: | 05/28/02 | |
| Sample ID: | SATEGNA #2 | Date Sampled: | 05/03/03 | |
| Lab ID: | 0302W02003 | Date Received: | 05/03/02 | |
| Matrix: | Water | Date Extracted: | N/A | |
| Condition: | Cool/Intact | Date Analyzed: | 05/06/02 | |
| | | | | |

| Parameter | Analytical Result | PQL | Units |
|--------------------------------------|---|--------|-------|
| BTEX - Method 8021B | ···· <u>·</u> ··· <u>·</u> ···· <u>·</u> ······ <u>·</u> ········ <u>·</u> ······ | | ····· |
| Benzene | <5 | 5 | µg/L |
| Toluene | <5 | 5 | μg/L |
| Ethylbenzene | <5 | 5 | µg/L |
| Xylenes (total) | 66 | 15 | µg/L |
| Total BTEX | 68 | 30 | μg/L |
| Quality Control - Surrogate Recovery | % | QC Li | mits |
| a,a,a-Trifluorotoluene(SUR-8021B) | 105 | 70 - 1 | 130 |
| 4-Bromofluorobenzene(SUR-8021B) | 80 | 70 - 1 | 30 |

Reference:

<u>4</u>_ Reviewed By: υ

Analyst:

| Client: | Burlington Resources | |
|------------|----------------------|-------------------------|
| Project: | San Juan Division | Date Reported: 05/28/02 |
| Sample ID: | SATEGNA #2 | Date Sampled: 05/03/03 |
| Lab ID: | 0302W02003 | Date Received: 05/03/02 |
| Matrix: | Water | Date Extracted: N/A |
| Condition: | Cool/Intact | Date Analyzed: 05/06/02 |

| | Analytical | | |
|-----------------------------------|---------------------------------------|-------|-------|
| Parameter | Result | PQL | Units |
| DRO - METHOD 8015 | · · · · · · · · · · · · · · · · · · · | ····· | |
| Diesel Range Organics (C10 - C22) | 17 | 5 | μg/L |
| Gasoline Range Organics(C6-C10) | 338 | 10 | µg/L |

Reference:

] 74 Reviewed By:

Analyst:

Table 22005 Ground WaterANALYTICAL RESULTS

S: / grndwatr/GW-Sites/JohnFed#4/99Annual.doc

Sategna #2 Ground Water Monitoring Sampling Data

| | | | B | L | п | × | BTEX | ТРН |
|---------------|-------------|----------------|---|---------------|-------------|--------|-------------------|-------|
| | Depth to | | | | | | | |
| Well Name | Water | Sample Lab # | mg/kg | mg/kg | mg/Kg | mg/Kg | ng/Kg mg/Kg mg/Kg | mg/Kg |
| Action Levels | | | 10 ppb | 750 ppb | 750ppb | 620ppb | 50 | 100 |
| Sategna #2 | | | | | | | | |
| TMW#1 | 50" | Sategna TMW-1 | 1.2 | 2.7 | L6:0 | 48.2 | 48.2 | |
| | | See ger | See general water quality analysis attached | quality analy | sis attache | | | |
| TMM/#0 | <u>78</u> " | Sategena TMW-2 | | 0.3 I | | 3141 | MAC:1-1-422 | |
| • | | See ger | See general water quality analysis attached | quality analy | sis attache | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

na = not applicable

WELL DEVELOPMENT AND SAMPLING LOG

| | | | | <u> </u> | | | | | |
|---------------|-----------|----------------------|---------------|---|----------------|----------------|--|-------------------|-----------------------------------|
| Project No.:[| Draft | | Proj | ect Name:_ | S <u>ATEGN</u> | <u>A</u> Clier | nt: <u>Burlingto</u> | <u>n</u> | |
| Location: | Well | No: | TMW-1_ | | Developr | nent INST | ALLATION | AND Samp | bling |
| Project Mana | ager | MJN | | Date | 2/10/05 | Start Tin | ne1550 | Weather_clear 40s | |
| Depth to Wa | ter4. | 16 fee | t Dep | th to Produ | ct <u>na</u> | Product Thic | kness: <u>na</u> | Mea | asuring Point <u>TOC</u> |
| Water Colum | | | | | | | | | |
| | 0 | | | | | | | | |
| Sampling Me | ethod: Si | ubmer | sible Pum | ip 🗆 | Centrifug | al Pump 🗖 | Peristalt | ic Pump | Other |
| | В | ottom ' | Valve Bai | ler | C | Oouble Chec | k Valv⊡Bail | ler Stai | nless-Steel Kemrter |
| Criteria: 3 t | o 5 Casi | ng Vol | umes of V | Water Rem | oval X sta | abilization of | Indicator Pa | arameters 2 | K Other <u>or bail</u> dry |
| [| <u> </u> | | | | Water Vol | ume in Well | , ·· | | |
| | ft of wat | er | | Gallons | | | Ounces | | Gal/oz to be removed |
| 2.75 | x 0.16 | | | 0.44 | | | | | 1.32 |
| L | | | | | | | | | |
| Time | Рq | | SC | Temp | ORP | D.O. | Turbidity | Vol Evac | Comments/ |
| (military) | (su) | | nos/cm) | (°F) | (millivolt | | (NTU) | (gal) | Flow rate |
| 1550 | 9.16 | 2 | 210 | 55.4 | | | | 0.44 | Clear |
| <u>1602</u> | 8.14 | 2 | 010 | 51.1 | | | | .44 | Clear |
| | | | | | | | | | |
| <u>1606</u> | 7.6 | 2 | 040 | 51.7 | | | | .44 | Clear |
| | | | | | | | | | |
| | | | | | | | | | |
| ······ | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | L | <u></u> | | L | l | | l | ! | |
| Final: | | 1. (J.) 1. (J.) | ga na tana sa | e vegete en | 1. Stee of | | Ferrous | | |
| Time pl | ı is | С | Temp | Eh-ORP | D.O. | Turbidity | | Vol Evac. | Comments/Flow Rate |
| | | 910 | 52.0 | | | | | 4.0 | Clear |
| | | | | | | | n a star francés a star de la seconda de La seconda de la seconda de La seconda de la seconda de | a Marina and | |
| | | | | | | | | | |

COMMENTS: Pump depleting well

| INSTRUMENTATION: | pH Meter | X | | Temper | ature Meter x |
|-------------------------|----------------|------------|-------------------------|--------|---------------|
| • | DO Mon | itor | | Other | |
| Cone | ductivity Mete | r X | | | |
| Water Disposal onsite | | Sample | e ID TMW-1 Sample Time_ | | |
| <u>BTEX</u> VOCs | | | | | |
| MS/MSD | BD | | BD Name/Time | | ТВ |
| | | | | | |

WELL DEVELOPMENT AND SAMPLING LOG

| ······ | | | | | | | | | | |
|----------------|------------------|----------------|--------------|---|---------------|--------|-------------|--------------|-------------|---------------------------------------|
| Project No.:E | Draft | | Proi | ect Name: | SATEG | iNA | Clien | t: Burlinato | n | |
| Location: | | | - | | | | | | | olina |
| Project Mana | | | | | | • | | | | Weatherclear 40s |
| | | | | | | | | | | asuring Point |
| | | | - | | | _ | | | | |
| Water Colum | in Heign | (<u>_2.7(</u> | <u>vve</u> r | i Dia | _2 | - | | | | ť |
| Sampling Me | thod: S | ubmer | sible Pur | 1p 🗌 | Centrif | ugal I | Pump 🛛 | Peristalti | c Pump 🔲 | Other |
| | B | ottom | Valve Bai | ler | | Dou | uble Chec | k Valv⊟Bail | er Stai | nless-Steel Kemr⊡rer |
| | _ | | | | | | | | | |
| Criteria: 3 te | o 5 Casi | ng Vol | umes of \ | Nater Rem | oval X | stabil | lization of | Indicator Pa | arameters) | K Other <u>or bail</u> dry |
| | | | | | Water \ | /olum | ne in Well | | | |
| Gal/ft x | ft of wat | er | | Gallons | | | | Ounces | | Gal/ oz to be removed |
| 2.70 | x 0.16 | | | 0.43 | | | | | | 1.32 |
| | | | İ | | | | | | | |
| Time | pН | | SC | Temp | OR | P | D.O. | Turbidity | Vol Evac | . Comments/ |
| (military) | (su) | | nos/cm) | (°F) | (milliv | | (mg/L) | (NTU) | (gal) | Flow rate |
| 1650 | 9.16 | 2 | 210 | 55.4 | | | | | 0.44 | Clear |
| <u>1702</u> | 8.14 | 2 | 2010 | 51.1 | | | | | .44 | Clear |
| | | | | | | | | | | |
| | | | | | | | | | | |
| <u>1706</u> | 7.6 | 2 | 2040 | 51.7 | | | | | .44 | Clear |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| | | | | | | | | | | |
| Final: | | 1.12 | | | н | *** | | Ferrous | | |
| Time p⊢ | I S | C | Temp | Eh-ORP | D.O. | Tu | irbidity | Iron | Vol Evac. | Comments/Flow Rate |
| <u>1709</u> 7 | .55 | 910 | 52.0 | | | | | | 4.0 | Clear |
| | | <i></i> | | n <u>a san sa an /u> | | | | | s the the | · · · · · · · · · · · · · · · · · · · |
| 00141-1 | | | <u> </u> | | | | | | | |
| COMMENTS | S: Pump | deplet | ing well | | | | | | | |
| | | | | | | | | | | |
| INSTRUMEN | | N: | oH Meter | X | | | | | perature Me | ter x |
| | | | DO Mo | | | | | Othe | r | |
| | | | tivity Met | | | | | | | |
| Water Dispos | sal <u>onsit</u> | e | | Sample | e ID TM | W-2 | Sample T | ime | <u></u> | |

| <u>BTEX</u> VOCs | | | |
|-------------------------|----|--------------|----|
| MS/MSD | BD | BD Name/Time | ТВ |





March 01, 2005

Report to: Gregg Wurtz Burlington Resources, Inc. 3401 E. 30th St. PO BOX 4289 Farmington, NM 87499 Bill to: Gregg Wurtz Burlington Resources, Inc. 3401 E. 30th St. PO BOX 4289 Farmington, NM 87499

Project ID: ACZ Project ID: L49852

Gregg Wurtz:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on February 11, 2005. This project has been assigned to ACZ's project number, L49852. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan, version 11.0. The enclosed results relate only to the samples received under L49852. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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.

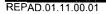
All samples and sub-samples associated with this project will be disposed of after April 01, 2005. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years. Please notify your Project Manager if you have other needs.

If you have any questions, please contact your Project Manager or Customer Service Representative.

01/Mar/05

Sue Barkey, Project Manager, has reviewed and approved this report in its entirety.







L49852: Page 1 of 13

AC
 Laboratories, Inc.

 2773 Downhill Drive Steamboat Springs, CO 80487(800) 334-5493

Burlington Resources, Inc.

Project ID: Sample ID:

SATEGNA TMW-1

Inorganic Analytical Results

| ACZ Sample ID: | L49852-01 |
|----------------|----------------|
| Date Sampled: | 02/10/05 09:25 |
| Date Received: | 02/11/05 |
| Sample Matrix: | Surface Water |

| Metals Analysis | | | | | | | | |
|--|---|----------------------------|-----------|---|---------------------------|-----------------------------------|--|--|
| Parameter | EPA Method | Result | Qual > | (Q. Units | MDL | POL | Date | Analyst |
| Arsenic, dissolved | M200.8 ICP-MS | 0.0031 | | mg/L | 0.0005 | 0.003 | 02/18/05 2:51 | jag |
| Barium, dissolved | M200.7 ICP | 0.095 | | mg/L | 0.003 | 0.01 | 02/16/05 1:25 | wfg |
| Cadmium, dissolved | M200.8 ICP-MS | 0.0002 | В | mg/L | 0.0001 | 0.0005 | 02/18/05 2:51 | jag |
| Calcium, dissolved | M200.7 ICP | 441 | | mg/L | 0.2 | 1 | 02/16/05 1:25 | wfg |
| Chromium, dissolved | M200.8 ICP-MS | 0.0012 | | mg/L | 0.0001 | 0.0005 | 02/18/05 2:51 | jag |
| Copper, dissolved | M200.8 ICP-MS | 0.0037 | | mg/L | 0.0005 | 0.003 | 02/18/05 2:51 | jag |
| Iron, dissolved | M200.7 ICP | 0.03 | В | * mg/L | 0.01 | 0.05 | 02/16/05 1:25 | wfg |
| Magnesium, dissolved | M200.7 ICP | 62.1 | | mg/L | 0.2 | 1 | 02/16/05 1:25 | wfg |
| Manganese, dissolved | M200.7 ICP | 3.820 | | * mg/L | 0.005 | 0.03 | 02/16/05 1:25 | wfg |
| Potassium, dissolved | M200.7 ICP | 10.2 | | mg/L | 0.3 | 1 | 02/16/05 1:25 | wfg |
| Sodium, dissolved | M200.7 ICP | 453 | | mg/L | 0.3 | 1 | 02/16/05 1:25 | wfg |
| Zinc, dissolved | M200.7 ICP | | U | * mg/L | 0.01 | 0.05 | 02/16/05 1:25 | wfg |
| Wet Chemistry | | | | | | | | |
| Parameter | EPA Method | Result | - Qual- ? | (e) Units | MDL | POL | Date . | Analyst |
| Alkalinity as CaCO3 | SM2320B - Titration | | | | | | | |
| Bicarbonate as | | 527 | | mg/L | 2 | 10 | 02/24/05 0:00 | ct |
| CaCO3 | | | | | | 10 | 02/24/03 0.00 | υ |
| Cacos | | | | - | - | 10 | 02/24/03 0.00 | CL |
| Carbonate as CaCO | 3 | | U | mg/L | 2 | 10 | 02/24/05 0:00 | ct |
| | | | U U | mg/L mg/L | | | | |
| Carbonate as CaCO | | 527 | | • | 2 | 10 | 02/24/05 0:00 | ct |
| Carbonate as CaCO3 Hydroxide as CaCO3 | | 527 | | mg/L | 2 2 | 10 10 | 02/24/05 0:00 02/24/05 0:00 | ct ct |
| Carbonate as CaCO3 Hydroxide as CaCO3 Total Alkalinity | Calculation | 527 -6.8 | | mg/L | 2 2 | 10 10 | 02/24/05 0:00 02/24/05 0:00 | ct ct |
| Carbonate as CaCO3 Hydroxide as CaCO3 Total Alkalinity Cation-Anion Balance | Calculation | | | mg/L mg/L | 2 2 | 10 10 | 02/24/05 0:00 02/24/05 0:00 02/24/05 0:00 | ct ct ct |
| Carbonate as CaCO3 Hydroxide as CaCO3 Total Alkalinity Cation-Anion Balance Cation-Anion Balance | Calculation | -6.8 | | mg/L mg/L % | 2 2 2 | 10 10 10 | 02/24/05 0:00 02/24/05 0:00 02/24/05 0:00 03/01/05 0:00 | ct ct ct calc |
| Carbonate as CaCO3 Hydroxide as CaCO3 Total Alkalinity Cation-Anion Balance Cation-Anion Balance Sum of Anions | Calculation | -6.8 54.5 | | mg/L mg/L % meq/L | 2 2 2 0.1 | 10 10 10 0.5 | 02/24/05 0:00 02/24/05 0:00 02/24/05 0:00 03/01/05 0:00 03/01/05 0:00 | ct ct ct calc calc |
| Carbonate as CaCO3 Hydroxide as CaCO3 Total Alkalinity Cation-Anion Balance Cation-Anion Balance Sum of Anions Sum of Cations | Calculation | -6.8 54.5 47.6 | | mg/L mg/L % meq/L meq/L | 2 2 2 0.1 0.1 | 10 10 10 0.5 0.5 | 02/24/05 0:00 02/24/05 0:00 02/24/05 0:00 03/01/05 0:00 03/01/05 0:00 03/01/05 0:00 | ct ct ct calc calc calc |
| Carbonate as CaCO3 Hydroxide as CaCO3 Total Alkalinity Cation-Anion Balance Cation-Anion Balance Sum of Anions Sum of Cations Chloride | Calculation M325.2 - Colorimetric | -6.8 54.5 47.6 19 | | mg/L mg/L % meq/L meq/L mg/L | 2 2 0.1 0.1 1 | 10 10 10 0.5 0.5 5 | 02/24/05 0:00 02/24/05 0:00 02/24/05 0:00 03/01/05 0:00 03/01/05 0:00 03/01/05 0:00 03/01/05 0:00 02/12/05 23:41 | ct ct calc calc calc calc erf |
| Carbonate as CaCO3 Hydroxide as CaCO3 Total Alkalinity Cation-Anion Balance Cation-Anion Balance Sum of Anions Sum of Cations Chloride Conductivity @25C | Calculation M325.2 - Colorimetric M120.1 - Meter | -6.8 54.5 47.6 19 | | mg/L mg/L % meq/L meq/L mg/L | 2 2 0.1 0.1 1 | 10 10 10 0.5 0.5 5 | 02/24/05 0:00 02/24/05 0:00 02/24/05 0:00 03/01/05 0:00 03/01/05 0:00 03/01/05 0:00 02/12/05 23:41 02/21/05 10:25 | ct ct calc calc calc calc erf jtl |
| Carbonate as CaCO3 Hydroxide as CaCO3 Total Alkalinity Cation-Anion Balance Cation-Anion Balance Sum of Anions Sum of Cations Chloride Conductivity @25C Lab Filtration Lab Filtration & | Calculation M325.2 - Colorimetric M120.1 - Meter SM 3030 B | -6.8 54.5 47.6 19 | | mg/L mg/L % meq/L meq/L mg/L | 2 2 0.1 0.1 1 | 10 10 10 0.5 0.5 5 | 02/24/05 0:00 02/24/05 0:00 02/24/05 0:00 03/01/05 0:00 03/01/05 0:00 03/01/05 0:00 02/12/05 23:41 02/21/05 10:25 02/17/05 17:07 | ct ct calc calc calc erf jtl mpj |

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487(800) 334-5493

SATEGNA TMW-2

Burlington Resources, Inc.

Project ID: Sample ID:

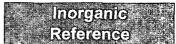
Inorganic Analytical Results

| ACZ Sample ID: | L49852-02 |
|----------------|----------------|
| Date Sampled: | 02/10/05 10:45 |
| Date Received: | 02/11/05 |
| Sample Matrix: | Surface Water |

| Metals Analysis | | | | | | | | |
|-----------------------------------|------------------------|--------|---------|----------|--------|-------|-----------------|---|
| Parameter | EPA Method | Result | Qual XQ | Units | MDL | POL | Date | Analyst |
| Arsenic, dissolved | M200.8 ICP-MS | 0.004 | В | mg/L | 0.003 | 0.01 | 02/18/05 20:06 | jag |
| Barium, dissolved | M200.7 ICP | 0.057 | | mg/L | 0.003 | 0.01 | 02/16/05 1:29 | wfg |
| Cadmium, dissolved | M200.8 ICP-MS | 0.0018 | В | mg/L | 0.0005 | 0.003 | 02/18/05 20:06 | jag |
| Calcium, dissolved | M200.7 ICP | 369 | | mg/L | 0.2 | 1 | 02/16/05 1:29 | wfg |
| Chromium, dissolved | M200.8 ICP-MS | 0.0016 | В | mg/L | 0.0005 | 0.003 | 02/18/05 20:06 | jag |
| Copper, dissolved | M200.8 ICP-MS | 0.036 | | mg/L | 0.003 | 0.01 | 02/18/05 20:06 | jag |
| Iron, dissolved | M200.7 ICP | 0.5 | | mg/L | 0.1 | 0.5 | 02/16/05 22:30 | mea |
| Magnesium, dissolved | M200.7 ICP | 102 | | mg/L | 0.2 | 1 | 02/16/05 1:29 | wfg |
| Manganese, dissolved | M200.7 ICP | 0.26 | В | mg/L | 0.05 | 0.3 | 02/16/05 22:30 | mea |
| Potassium, dissolved | M200.7 ICP | 17.4 | | mg/L | 0.3 | 1 | 02/16/05 1:29 | wfg |
| Sodium, dissolved | M200.7 ICP | 3210 | | mg/L | 3 | 10 | 02/16/05 22:30 | mea |
| Zinc, dissolved | M200.7 ICP | 0.1 | В | mg/L | 0.1 | 0.5 | 02/16/05 22:30 | mea |
| Wet Chemistry | | | | | | | | |
| Parameter | EPA Method | Result | (0)(c) | Units | MDL | Poll | Date | Analyst |
| Alkalinity as CaCO3 | SM2320B - Titration | | | | | | | A CONTRACTOR OF |
| Bicarbonate as | | 1600 | | mg/L | 2 | 10 | 02/24/05 0:00 | ct |
| CaCO3 | | | | 5 | | | | |
| Carbonate as CaCO3 | 3 | | U | mg/L | 2 | 10 | 02/24/05 0:00 | ct |
| Hydroxide as CaCO3 | 3 | | U | mg/L | 2 | 10 | 02/24/05 0:00 | ct |
| Total Alkalinity | | 1600 | | mg/L | 2 | 10 | 02/24/05 0:00 | ct |
| Cation-Anion Balance | Calculation | | | | | | | |
| Cation-Anion Balance | | -8.4 | | % | | | 03/01/05 0:00 | calc |
| Sum of Anions | | 200 | | meq/L | 0.1 | 0.5 | 03/01/05 0:00 | calc |
| Sum of Cations | | 169 | | meq/L | 0.1 | 0.5 | 03/01/05 0:00 | calc |
| Chloride | M325.2 - Colorimetric | 14 | | mg/L | 1 | 5 | 02/12/05 23:41 | erf |
| Conductivity @25C | M120.1 - Meter | 14000 | | umhos/cm | 1 | 10 | 02/21/05 10:29 | jtl |
| Lab Filtration | SM 3030 B | | * | | | | 02/17/05 17:09 | mpj |
| Lab Filtration & Acidification | SM 3030 B | | * | | | | 02/11/05 15:00 | ak |
| pH (lab) | M150.1 - Electrometric | 7.5 | н | units | 0.1 | 0.1 | 02/24/05 18:13 | ct |
| 1 () | MITOO.I Electronicate | | | unite | 0.1 | ••• | 02/2 1/00 10:10 | ••• |

* Please refer to Extended Qualifier Report for detail





| 73 Downhill | I Drive Steamboat Springs, CO 80487 (800) 334-5493 | <u></u> | | | | | | |
|---|---|---|---|--|--|--|--|--|
| | | | | | | | | |
| | er/Explanations | 300 C 10 | | | | | | |
| Batch | A distinct set of samples analyzed at a specific time | | | | | | | |
| Found | Value of the QC Type of interest | | | | | | | |
| Limit | | Upper limit for RPD, in %. | | | | | | |
| Lower | • • • • • • • | Lower Recovery Limit, in % (except for LCSS, mg/Kg) | | | | | | |
| MDL | Method Detection Limit. Same as Minimum Reporting L | | | | | | | |
| PCN/SCN | 0 0 | e manufacture | er's certificate of analysis | | | | | |
| PQL | Practical Quantitation Limit, typically 5 times the MDL. | | | | | | | |
| QC | | True Value of the Control Sample or the amount added to the Spike | | | | | | |
| Rec | Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg) | | | | | | | |
| RPD | Relative Percent Difference, calculation used for Duplica | ate QC Types | | | | | | |
| Upper | Upper Recovery Limit, in % (except for LCSS, mg/Kg) | | | | | | | |
| Sample | Value of the Sample of interest | | | | | | | |
| Sample T | ypes | | | | | | | |
| AS | Analytical Spike (Post Digestion) | LCSWD | Laboratory Control Sample - Water Duplica | | | | | |
| ASD | Analytical Spike (Post Digestion) Duplicate | LFB | Laboratory Fortified Blank | | | | | |
| CCB | Continuing Calibration Blank | LFM | Laboratory Fortified Matrix | | | | | |
| CCV | Continuing Calivation Verification standard | LFMD | Laboratory Fortified Matrix Duplicate | | | | | |
| DUP | Sample Duplicate | LRB | Laboratory Reagent Blank | | | | | |
| ICB | Initial Calibration Blank | MS | Matrix Spike | | | | | |
| ICV | Initial Calibration Verification standard | MSD | Matrix Spike Duplicate | | | | | |
| ICSAB | Inter-element Correction Standard - A plus B solutions | PBS | Prep Blank - Soil | | | | | |
| LCSS | Laboratory Control Sample - Soil | PBW | Prep Blank - Water | | | | | |
| LCSSD | Laboratory Control Sample - Soil Duplicate | PQV | Practical Quantitation Verification standard | | | | | |
| LCSW | Laboratory Control Sample - Water | SDL | Serial Dilution | | | | | |
| Sample T | ype Explanations | | | | | | | |
| Blanks | Verifies that there is no or minir | nal contamina | ation in the prep method or calibration procedure | | | | | |
| Control Sa | amples Verifies the accuracy of the me | thod, including | g the prep procedure. | | | | | |
| Duplicates | s Verifies the precision of the inst | rument and/o | r method. | | | | | |
| Spikes/Fo | ortified Matrix Determines sample matrix inter | ferences, if a | ny. | | | | | |
| Standard | Verifies the validity of the calibr | ation. | | | | | | |
| Zonalilia | rs (Qual) | | | | | | | |
| B | Analyte concentration detected at a value between MDL | . and PQL. | | | | | | |
| Н | Analysis exceeded method hold time. pH is a field test | | diate hold time. | | | | | |
| R | Poor spike recovery accepted because the other spike i | | | | | | | |
| т | High Relative Percent Difference (RPD) accepted becau | | | | | | | |
| U | Analyte was analyzed for but not detected at the indicat | - | | | | | | |
| v | High blank data accepted because sample concentratio | n is 10 tímes | higher than blank concentration | | | | | |
| W | Poor recovery for Silver quality control is accepted beca | use Silver oft | en precipitates with Chloride. | | | | | |
| х | Quality control sample is out of control. | | | | | | | |
| Z | Poor spike recovery is accepted because sample conce | entration is fou | ur times greater than spike concentration. | | | | | |
| A-2-11-2-2-0 | rences | | | | | | | |
| | | Water and Wa | istes, March 1983 | | | | | |
| | EPA 600/4-83-020 Methods for Chemical Analysis of V | | | | | | | |
| (1) | EPA 600/4-83-020. Methods for Chemical Analysis of V EPA 600/8-93-100. Methods for the Determination of I | organic Subs | EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993. | | | | | |
| (1) (2) | EPA 600/R-93-100. Methods for the Determination of In | - | | | | | | |
| (1) (2) (3) | EPA 600/R-93-100. Methods for the Determination of In EPA 600/R-94-111. Methods for the Determination of M | letals in Envir | ronmental Samples - Supplement I, May 1994. | | | | | |
| (1) (2) (3) (5) | EPA 600/R-93-100. Methods for the Determination of In EPA 600/R-94-111. Methods for the Determination of M EPA SW-846. Test Methods for Evaluating Solid Waste | fetals in Envir e, Third Editio | ronmental Samples - Supplement I, May 1994. n with Update III, December 1996. | | | | | |
| (1) (2) (3) (5) (6) | EPA 600/R-93-100. Methods for the Determination of In EPA 600/R-94-111. Methods for the Determination of M | fetals in Envir e, Third Editio | ronmental Samples - Supplement I, May 1994. n with Update III, December 1996. | | | | | |
| (1) (2) (3) (5) | EPA 600/R-93-100. Methods for the Determination of In EPA 600/R-94-111. Methods for the Determination of M EPA SW-846. Test Methods for Evaluating Solid Waste | fetals in Envir e, Third Editio | ronmental Samples - Supplement I, May 1994. n with Update III, December 1996. | | | | | |
| (1) (2) (3) (5) (6) mments (1) | EPA 600/R-93-100. Methods for the Determination of In EPA 600/R-94-111. Methods for the Determination of M EPA SW-846. Test Methods for Evaluating Solid Waste | fetals in Envir a, Third Editio astewater, 19t | ronmental Samples - Supplement I, May 1994. n with Update III, December 1996. th edition, 1995. | | | | | |
| (1) (2) (3) (5) (6) miments | EPA 600/R-93-100. Methods for the Determination of In EPA 600/R-94-111. Methods for the Determination of M EPA SW-846. Test Methods for Evaluating Solid Waster Standard Methods for the Examination of Water and Wa | Aetals in Envir a, Third Editio astewater, 19t slightly if the | ronmental Samples - Supplement I, May 1994. n with Update III, December 1996. th edition, 1995. rounded values are used in the calculations. | | | | | |

REPIN03.11.00.01

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Laboratories, Inc.2773 Downhill DriveSteamboat Springs, CO 80487 (800) 334-5493

Burlington Resources, Inc.

Inorganic Extended Qualifier Report

ACZ Project ID: L49852

| ACZID | WORKNUM | PARAMETER | METHOD | QUAL | DESCRIPTION |
|-----------|----------|--------------------------------|--------------|------|---|
| L49852-01 | WG185390 | Iron, dissolved | M200.7 ICP | M3 | The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable. |
| | | Manganese, dissolved | M200.7 ICP | M3 | The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable. |
| | | Zinc, dissolved | M200.7 ICP . | M3 | The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable. |
| | WG185522 | Lab Filtration | SM 3030 B | ΤВ | Analyte is not covered by NELAC certificate 02111CA, or ACZ does not maintain NELAC certification for this analyte. |
| | WG185244 | Lab Filtration & Acidification | SM 3030 B | ТВ | Analyte is not covered by NELAC certificate 02111CA, or ACZ does not maintain NELAC certification for this analyte. |
| L49852-02 | WG185522 | Lab Filtration | SM 3030 B | тв | Analyte is not covered by NELAC certificate 02111CA, or ACZ does not maintain NELAC certification for this analyte. |
| | WG185244 | Lab Filtration & Acidification | SM 3030 B | тв | Analyte is not covered by NELAC certificate 02111CA, or ACZ does not maintain NELAC certification for this analyte. |

L49852: Page 5 of 13

ALZ Laboratories, Inc.

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Burlington Resources, Inc.

Project ID:

Sample ID: SATEGNA TMW-1 Locator:

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method: M8021B GC/PID Extract Method: Method

| Compound Compound | CAS | Result | QUAL: | Xei | Unito | MOLE | POL |
|----------------------|-------------|------------|-------|-----|---------|------|--------|
| Benzene | 000071-43-2 | 1.2 | | * | ug/L | 0.3 | 1 |
| Ethylbenzene | 000100-41-4 | 0.9 | J | * | ug/L | 0.2 | 1 |
| m p Xylene | 01330 20 7 | 10.4 | | * | ug/L | 0.4 | 2 |
| o Xylene | 00095-47- 6 | 37.8 | | * | ug/L | 0.2 | 1 |
| Toluene | 000108-88-3 | 2.7 | | * | ug/L | 0.2 | 1 |
| Surrogate Recoveries | CAS | % Recovery | | 200 | uitte (| ાણા | SUGL S |
| Bromofluorobenzene | 000460-00-4 | 112.8 | | * | % | 83 | 117 |

Organic Analytical Results

 ACZ Sample ID:
 L49852-01

 Date Sampled:
 02/10/05 9:25

 Date Received:
 02/11/05

 Sample Matrix:
 Surface Water

| Analyst: | jj |
|------------------|----------------|
| Extract Date: | 02/16/05 12:10 |
| Analysis Date: | 02/16/05 12:10 |
| Dilution Factor: | 1 |

Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Burlington Resources, Inc.

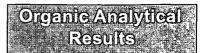
Project ID: Sample ID: SATEGNA TMW-2 Locator:

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method: M8021B GC/PID

Extract Method: Method

| Compound | | | | | | | |
|--|-------------|------------|-----------|---------------|-------|------|-----|
| Compound | CAS | , Result | alulailan | 3 (0) | Unito | NOL | Fel |
| Benzene | 000071-43-2 | 0.3 | J | | ug/L | 0.3 | 1 |
| Ethylbenzene | 000100-41-4 | 0.5 | J | * | ug/L | 0.2 | 1 |
| m p Xylene | 01330 20 7 | 0,8 | J | * | ug/L | 0.4 | 2 |
| o Xylene | 00095-47- 6 | 30.3 | | * | ug/L | 0.2 | 1 |
| Toluene | 000108-88-3 | 0.6 | J | | ug/L | 0.2 | 1 |
| Surrogate Recoveries | | | | | | | |
| AN ADVANCE AND ADVANCE | CAS A | % Recovery | | <u> (</u> 0): | Udlo | 1045 | Del |
| Bromofluorobenzene | 000460-00-4 | 98.6 | | | % | 83 | 117 |



| L49852-02 |
|----------------|
| 02/10/05 10:45 |
| 02/11/05 |
| Surface Water |
| |

| Analyst: | jj |
|------------------|----------------|
| Extract Date: | 02/16/05 14:21 |
| Analysis Date: | 02/16/05 14:21 |
| Dilution Factor: | 1 |

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2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Burlington Resources, Inc.

Project ID:

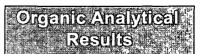
Sample ID: TB030904-03 Locator:

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method: M8021B GC/PID

Extract Method: Method

| Compound | | | | | | | |
|--|-------------|--------------|--------|-----------|------|---------|--|
| Compound | CAS | Result | L QUAL | NO UNITS | MODE | িটিটিটি | |
| Benzene | 000071-43-2 | | U | ug/L | 0.3 | 1 | |
| Ethylbenzene | 000100-41-4 | 0.3 | J | * ug/L | 0.2 | 1 | |
| m p Xylene | 01330 20 7 | 0.7 | J | * ug/L | 0.4 | 2 | |
| o Xylene | 00095-47- 6 | 0.4 | J | * ug/L | 0.2 | 1 | |
| Toluene | 000108-88-3 | | U | ug/L | 0.2 | 1 | |
| Surrogate Recoveries | | | | | | | |
| STREET, ST | CAS | ~.% Recovery | | Xel Units | LGL | (UGL | |
| Bromofluorobenzene | 000460-00-4 | 99.3 | | % | 83 | 117 | |



| L49852-03 |
|---------------|
| 02/10/05 0:00 |
| 02/11/05 |
| Ground Water |
| |

| Analyst: | jj |
|------------------|----------------|
| Extract Date: | 02/16/05 15:04 |
| Analysis Date: | 02/16/05 15:04 |
| Dilution Factor: | 1 |



Laboratories, Inc.

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Report Header Explanations Batch A distinct set of samples analyzed at a specific time Found Value of the QC Type of interest Limit Upper limit for RPD, in %. Lower Recovery Limit, in % (except for LCSS, mg/Kg) Lower LCL Lower Control Limit Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations. MDL A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis PCN/SCN PQL Practical Quantitation Limit QC True Value of the Control Sample or the amount added to the Spike Rec Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg) RPD Relative Percent Difference, calculation used for Duplicate QC Types Upper Recovery Limit, in % (except for LCSS, mg/Kg) Upper UCL Upper Control Limit Sample Value of the Sample of interest QC Sample Types SURR LFM Laboratory Fortified Matrix Surrogate INTS LFMD Laboratory Fortified Matrix Duplicate Internal Standard DUP LRB Laboratory Reagent Blank Sample Duplicate LCSS MS/MSD Matrix Spike/Matrix Spike Duplicate Laboratory Control Sample - Soil LCSW Laboratory Control Sample - Water PBS Prep Blank - Soil LFB Laboratory Fortified Blank PBW Prep Blank - Water QC Sample Type Explanations Blanks Verifies that there is no or minimal contamination in the prep method procedure. **Control Samples** Verifies the accuracy of the method, including the prep procedure. Duplicates Verifies the precision of the instrument and/or method Spikes/Fortified Matrix Determines sample matrix interferences, if any ACZ Qualifiers (Qual) в Analyte detected in daily blank н Analysis exceeded method hold time. Analyte concentration detected at a value between MDL and PQL Poor spike recovery accepted because the other spike in the set fell within the given limits. R High Relative Percent Difference (RPD) accepted because sample concentrations are less than 10x the MDL. Analyte was analyzed for but not detected at the indicated MDL U High blank data accepted because sample concentration is 10 times higher than blank concentration V W Poor recovery for Silver quality control is accepted because Silver often precipitates with Chloride. Х Quality contreol sample is out of control. Ζ Poor spike recovery is accepted because sample concentration is four times greater than spike concentration. Р Analyte concentration differs from second detector by more than 40%. E Analyte concentration is estimated due to result exceeding calibration range. Μ Analyte concentration is estimated due to matrix interferences. Method References (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983. (2)EPA 600/4-90/020. Methods for the Determination of Organic Compounds in Drinking Water (I), July 1990. (3)EPA 600/R-92/129. Methods for the Determination of Organic Compounds in Drinking Water (II), July 1990.

(5)EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December, 1996.

Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995. (6)

Comments · Course and the second second second second

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.

Organic analyses are reported on an "as received" basis. (2)

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Burlington Resources, Inc.

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Organic Extended Qualifier Report

ACZ Project ID: L49852

| AGZ ID | WORKNUM | PARAMETER | METHOD | QUAL, | DESCRIPTION |
|-----------|----------|-----------------|---------------|-------|--|
| L49852-01 | WG185432 | *All Compounds* | M8021B GC/PID | Q3 | Sample received with improper chemical preservation. |
| -4 | | Ethylbenzene | M8021B GC/PID | ٧7 | Calibration verification recovery was above the method control limit for this analyte, however the average % difference or % drift for all the analytes met method criteria. |
| | | m p Xylene | M8021B GC/PID | V7 | Calibration verification recovery was above the method control limit for this analyte, however the average % difference or % drift for all the analytes met method criteria. |
| | | o Xylene | M8021B GC/PID | M2 | Matrix spike recovery was low, the method control sample recovery was acceptable. |
| | | | M8021B GC/PID | ٧7 | Calibration verification recovery was above the method control limit for this analyte, however the average % difference or % drift for all the analytes met method criteria. |
| L49852-02 | WG185432 | Ethylbenzene | M8021B GC/PID | ٧7 | Calibration verification recovery was above the method control limit for this analyte, however the average % difference or % drift for all the analytes met method criteria. |
| | | m p Xylene | M8021B GC/PID | V7 | Calibration verification recovery was above the method control limit for this analyte, however the average % difference or % drift for all the analytes met method criteria. |
| | | o Xylene | M8021B GC/PID | M2 | Matrix spike recovery was low, the method control sample recovery was acceptable. |
| | | | M8021B GC/PID | V7 | Calibration verification recovery was above the method control limit for this analyte, however the average % difference or % drift for all the analytes met method criteria. |
| L49852-03 | WG185432 | Ethylbenzene | M8021B GC/PID | V7 | Calibration verification recovery was above the method control limit for this analyte, however the average % difference or % drift for all the analytes met method criteria. |
| | | m p Xylene | M8021B GC/PID | V7 | Calibration verification recovery was above the method control limit for this analyte, however the average % difference or % drift for all the analytes met method criteria. |
| | | o Xylene | M8021B GC/PID | M2 | Matrix spike recovery was low, the method control sample recovery was acceptable. |
| | | | M8021B GC/PID | V7 | Calibration verification recovery was above the method control limit for this analyte, however the average % difference or % drift for all the analytes met method criteria. |

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Burlington Resources, Inc.



ACZ Project ID: L49852 Date Received: 2/11/2005 Received By:

| ReceiptVerlitention | | | |
|--|-----|----|----|
| | YES | NO | NA |
| 1) Does this project require special handling procedures such as CLP protocol? | [| | X |
| 2) Are the custody seals on the cooler intact? | | | X |
| 3) Are the custody seals on the sample containers intact? | | | X |
| 4) Is there a Chain of Custody or other directive shipping papers present? | Х | | |
| 5) Is the Chain of Custody complete? | X | | |
| 6) Is the Chain of Custody in agreement with the samples received? | Х | | |
| 7) Is there enough sample for all requested analyses? | Х | | |
| 8) Are all samples within holding times for requested analyses? | Х | | |
| 9) Were all sample containers received intact? | Х | | |
| 10) Are the temperature blanks present? | | | Х |
| 11) Are the trip blanks (VOA and/or Cyanide) present? | X | | |
| 12) Are samples requiring no headspace, headspace free? | | Х | |
| 13) Do the samples that require a Foreign Soils Permit have one? | | | X |

Exceptions: If you answered no to any of the above questions, please describe

Headspace found in trip blank.

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

| Cooler Id | | Temp (°C) | Rad (µR/hr) |
|-----------|---|-----------|-------------|
| ACZ #417 | | 3.7 | 24 |
| | - | | |
| | • | | |
| | | | |
| | | | |

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

Noice



Burlington Resources, Inc.



ACZ Project ID: Date Received: Received By:

L49852 2/11/2005

Sample Container Preservation

| SAMPLE C | LIENT ID | R < 2 | G < 2 | Y < 2 | YG< 2 | B < 2 | BG< 2 | 0 < 2 | T >12 | P >12 | N/A | RAD |
|-------------------------|---------------------------|----------|----------|-------|------------|---------|-------|-------|-------|-------|-----|-----|
| L49852-01 SATEGNA TMW-1 | | | | | 1 | | | | | | Х | |
| L49852-02 S | ATEGNA TMW-2 | | | | | | | | | | X | |
| L49852-03 T | B030904-03 | | | | | | | | | | X | |
| Sample Co | ntainer Preservation Lege | mel | | | - 26 D | Sec. | | | | | | |
| Abbreviation | Description | Contair | ner Type | Pres | ervative | /Limits | | | | | | |
| R | Raw/Nitric | RED | | pH n | nust be < | 2 | | | | | | |
| В | Filtered/Sulfuric | BLUE | | pH m | nust be < | 2 | | | | | | |
| BG | Filtered/Sulfuric | BLUE G | LASS | рН п | nust be < | 2 | | | | | | |
| G | Filtered/Nitric | GREEN | | pH n | nust be < | 2 | | | | | | |
| 0 | Raw/Sulfuric | ORANG | ε | pH m | nust be < | 2 | | | | | | |
| Р | Raw/NaOH | PURPLE | = | рН п | nust be > | 12 | | | | | | |
| т | Raw/NaOH Zinc Acetate | TAN | | pH n | nust be > | 12 | | | | | | |
| Υ | Raw/Sulfuric | YELLO | N | рН п | nust be < | 2 | | | | | | |
| YG | Raw/Sulfuric | | N GLASS | 6 pHm | nust be < | 2 | | | | | | |
| N/A | No preservative needed | Not app | licable | | | | | | | | | |
| RAD | Gamma/Beta dose rate | Not appl | licable | must | t be < 250 |) µR/hr | | | | | | |

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| Company: Bor fingtion | Kasouri | | - | 1/2 | SM | mai | ton | $\frac{N}{2}$ | <u>n e</u> | 5/4 | <u> </u> | |
| E-mail: If sample(s) received past holdin | (HT) | or if incufficio |] nt HT re | | hone:5 | | 520 | 07 | 23 | <u>> /</u> YES | 1 | |
| analysis before expiration, shall | ACZ proceed | with request | ed short | t HT an | alyses? | | | | | NO | | 1 |
| If "NO" then ACZ will contact clic | | | | | | | | | | | | - |
| is Indicated, ACZ will proceed wi | | | | | | | | | | use au | ote nun | nberl |
| Quote #: | | An along the second | | | 14 | | | | | | | 31 7 64 1 |
| Project/PO #: | | | 1 | s | Sc | | | Í | | | 1 | |
| Shipping Co.: Feat | ~ ×. | | | of Containers | | | | | | | | |
| Tracking #: 8479824 | 9417 | 1 | - - | onta | er er | | | | | | · . | |
| Reporting state for compliance | testing: | m | | <u> </u> | 144 | <u> </u> | | | | | | |
| Are any samples NRC licensab | le material? | No |] | # | 12 | | | | | | | |
| SAMPLE IDENTIFICATION | DATE | E:TIME | Matrix | | N.C. | | | | | ļ | | |
| SATEGNA TMU-1 | 21005 | 0925 | W6 | Ŷ | X | | | ļ | <u> </u> | | | |
| SATEBINA TMUS | 21005 | 1045 | WG | 0 | X | | | ļ | | | | |
| Trip | <u> </u> | <u></u> | w | 1 | | | | ļ | <u> </u> | |] | |
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| Matrix SW (Surface Water) · GW | (Ground Water) |) · WW (Waste V | Vater) · D\ | N (Drínki | ing Water |) · SL (S | ludge) · | SO (Soil |) · OL (O | il) · Othe | r (Specify | 0 |
| REMARKS | | • •∳ • • • • | in e | | a). | | | | | 2.0 | | es Antonio |
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