## 3RP-069

## **GW** monitoring report

DATE: 2004



March 31, 2005

## RECEIVEL

Certified: 70993400001842167364

RECENTED

Glen Von Gonten

New Mexico Oil Conservation Division APR 0 6 2005

1220 South St. Francis Drive

Santa Fe, NM 87505

Oil Conservation Division

APR OU ZOON

Environmental Bureau Oil Conservation

RE: 2004 Annual Groundwater Investigation and Remediation Reports

San Juan Basin, New Mexico

Environmental Bureau

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:

3RP66	Cozzens B#1
3RP 69	Hampton #4M
3RP 71	Johnson Federal #4 Metering Station
317173	Flora Vista (ENTER PRISE FIELD SUICES - FLORDICE VISTA #1
3RP 37	Marcotte Pool Unit #1 (Bum) 30-045-29466
	Sategna #2 (30-645-07974)

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

Sincerely,

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

## **BURLINGTON RESOURCES 2004 ANNUAL GROUNDWATER REPORT** RECEIVEL

SITE DETAILS

Location:

Hampton...

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Unit Letter N, Section 13, Township 30N, Range 11W; San Quan County, New Mexico Federal

Division

Land Type:

#### **PREVIOUS ACTIVITIES**

PNM conducted limited excavation (approximately 60 cubic yards) of impacted soil underneath their former earthen pit and installed groundwater monitoring wells and a product recovery well.

Burlington Resources (BR) excavated impacted soil down to groundwater depth underneath our former area of operation and installed groundwater monitoring wells. During November 1998, BR began excavation of additional impacted soils to a depth of approximately 27 feet from under and around PNM's former earthen pit. Approximately 77 cubic yards of additional soils were also removed from BR's excavation in the southeast part of the location.

In 1999 BR continued excavation work at the Hampton #4M location, continuing south from PNM's area of operation toward BR's area of operation. Impacted soils were excavated until all apparent source materials had been removed. Prior to backfilling, 30 barrels of Oxy-1 chemical was applied to the bottom and sides of the excavation to stimulate bioremediation. BR also installed a monitoring well (MW-13) in the vicinity of the former MW-4 and downgradient of BR's original excavation under the former tank battery. Details on these activities can be found in the status report submitted to the OCD on September 16, 1999.

BR installed three additional monitoring wells (MW-14.15.16) on the Hampton #4M location. BR also attempted to install two downgradient offsite wells, but both wells hit "auger refusal" prior to contacting any groundwater. Details on these wells and attempts can be found in the status reports submitted to the OCD on October 28, 1999 and January 11, 2000.

The OCD sampled the groundwater seep to the northwest side of the well pad on April 14, 1999. The analytical results show that benzene is present in concentrations in excess of New Mexico Water Quality Control Commission groundwater standards.

Groundwater sampling from monitoring well (MW-14) revealed a level of free phase hydrocarbons in the extreme southeast part of location.

#### 2000 ACTIVITIES

Activities completed in 2000 included additional excavation, quarterly well monitoring, and PNMs transfer of environmental responsibility and ownership to Williams Field Services (WFS).

The excavation remediation work proposed in the April 12, 2000 letter to OCD was completed as planned. The excavation was located in the extreme southeast corner of the location adjacent to areas excavated in 1997 and 1998 and within the former tank battery location. The excavation activities were driven by the detection of free phase hydrocarbons in the monitoring well MW-14 installed in the southeast corner on October 1999. The monitoring wells MW-13 and MW-14 were destroyed during the excavation work and will be replaced with one well in a similar location as MW-14. The excavation was completed down to groundwater and approximately 120 cu. vds, were removed. Impacted soils were excavated until all apparent source materials had been removed. The contaminated soils were land farmed off location on a BR location within the same lease. The bottom of the excavation was ended into approximately 2 feet of dry non-contaminated blue green shale that appears to be the confining layer for the catchment basin encompassing the Hampton location. This current excavation work should represent the last remaining area to be excavated and no further excavation is planned or necessary at this time. The excavation has remained open to allow seepage of any potential free product that was detected in the ground water well MW-14 and to promote volatilization of the excavated area. To date, no measurable thickness of hydrocarbons has been detected on the surface of the approximately 1 foot of water in the bottom of the excavation. A sample will be collected of the water in the excavation in 2001 and analyzed for BTEX constituents.

Quarterly monitoring was performed for the first two quarters of 2000. The ground water results are provided in Attachment 1 and the analytical data for 2000 is also attached. The ground water monitoring for the last two quarters of 2000 was missed related to a miscommunication with consultants and the transfer of monitoring activities from PNM and BR. The first quarter groundwater samples have been collected for 2001 and the consultant has been given clear instructions regarding the sampling frequency and number of wells to be sampled for 2001. The upgradient well MW-1 was not sampled because it has demonstrated non-detect concentrations for four consecutive quarters and there is no potential source of contamination upgradient.

A summary of groundwater analytical data is presented in Attachment 1. A site diagram is presented as Attachment 2. An aerial photograph, which is from PNM's OCD exhibit, is also included as Attachment 3 for a better reference of scale.

#### 2001 ACTIVITIES

The excavation completed in 2000 was backfilled with clean soil the third quarter of 2001. The landfarms associated with the excavated dirt were tested and determined clean and closed. Approximately a one foot static water level was observed in the open excavation in the first quarters of 2001. No visible sheen was observed on the water surface and a benzene level of 2 ug/l was detected in a second quarter 2001 grab sample. BR applied a potassium permanganate solution to the excavation to enhance the degradation of the hydrocarbons remaining in the exposed excavated soil and passively treat insitu the soils and ground water down gradient from the excavation prior to backfilling the excavation.

Quarterly monitoring was continued for the 2001. The ground water field notes and the analytical data are provided in Attachment 1 for 2001. The first quarter field notes were lost by the contractor performing the work, but the lab analysis was recovered. BR collected only water level data from the upgradient well

MW-1. No constituents of concern were detected in four consecutive quarters at MW-1 and no upgradient source of contamination is present.

Wells MW-15, MW-11, and MW-9 remained clean for the four quarters of sampling in 2001. MW-11 is the furthest down gradient well to the north. Well MW-9 is upgradient of Williams equipment location and down gradient from BR's historical and current production equipment locations as well as the 2000 excavation work. The non-detect analytical results in MW-9 support the natural remediation and effectiveness of the excavation work performed upgradient of the well. Well MW-15 is within the current BR well production equipment containment berm and has not detected constituents of concern (COC). Clean ground water from MW-15, near BR's separator, indicates the separator pit is not a source of contamination.

Wells MW-12, MW-16, MW-5 and MW-7 detected COC. Well MW-12 is located adjacent and downgradient of the former Willaim's unlined pit and the levels of COC are elevated and remain within the range of 2000 sampling levels. MW-16 located on the eastern boundary of the location along a sandstone out crop shows COC level to be increasing in the last two quarters of 2001. MW-5 is located in the sand bed wash downgradient from the location and closest to William's unlined pit and the analytical results for 2001 are in a similar range to 2000. MW-7 is located in the sand bed wash downgradient from the location downgradient from well MW-5. The COC levels in MW-7 are similar to historic levels with the exception that a viable sheen was observed in the 4<sup>th</sup> quarter sampling event that has not been observed in prior events. A seep located northeast of the production location along the eastern side of the sand bed wash was sampled quarterly in 2001 and only the first quarter detected any COC. TMW-1 is located in the sand bed wash between MW-5 and MW-7 and no samples were collected because of insufficient water to collect a sample.

#### **2002 THROUGH 2004 ACTIVITIES**

BR continued the quarterly ground water well monitoring program from 2002 to 2004 to measure the progression of the passive natural remediation occurring at this site. BR also continued quarterly sampling the seep on location. The monitoring results are provided in Attachment 1 GROUND WATER ANALYTICAL RESULTS SUMMARY.

#### **CONCLUSIONS**

The downgradient extent of the ground water impacts continues to be Monitoring Well MW-7 based on the 2004 monitoring data. The hydrocarbon concentrations in the MW-7 well reduce in 2002 and 2004 but a minor increase was observed in 2003. This 2003 increase in BTEX concentrations may be contributed to the excavation work and insitu treatment performed by BR in 2000 and 2001. The ground water monitoring in the furthest down gradient well, MW-11 has still not detected any hydrocarbon constituents. The ground water gradient has not change significantly in 2004.

Historically, the source of contamination appeared to be defined and originated from two areas related to BR and WFS historical operations. A considerable amount of excavation and treatment work has been performed by BR to remediate the areas of contamination. The main remediation approach has been excavation and offsite treatment. However, chemical oxidizer has also been applied to the excavations. The goal of the remediation is to prevent potential contamination movement away from the site and allow for the natural break down of the hydrocarbons.

The excavation work completed in 2000 appeared to have been effective in reducing or eliminating the free phase hydrocarbons in well MW-16. However, a minor sheen of hydrocarbons and strong

hydrocarbon odors have been observed in this well in subsequent monitoring years. The horizontal extent of the ground water contamination at this location appears to start approximately in an area near wells MW-16 and MW-12 and continues to well MW-7.

The furthest downgradient well MW-11 has not detected contamination exceeding the New Mexico Water Quality Control Commissions ground water standards since monitoring began.

The zone of greatest hydraulic conductivity and the approximate natural ground water flow path leaving the area of contamination may be confined to a narrow flow path at the bottom of the box canyon drainage. The hydrologic gradient follows the topographic gradient of the sand bed wash that extends downgradient from the production location. The vertical extent of contamination migration is confined to a clay and sandstone unit that forms the sides and basement of the canyon. The auger refusal encountered on the two downgradient offsite monitoring well attempts in 1999 and observations of the stratigraphy in the excavations support this theory that the ground water is located in a relatively narrow band generally following the surface drainage flow path.

The ground water regime at the location appears to be typical for the San Jan Basin and the arid southwest. The hydrogeology consists of an unconfined aquifer comprised of fine eolian and alluvial sands and silts overlying an impermeable clay unit that forms the sides and basement of this box canyon catchment basin. The confining unit acts as an impermeable catchment that collects and concentrates meteoric water filtering through the overlying sediments. The ground water then travels out of the canyon as bed flow along a narrow band generally following the ephemeral wash that drains the basin.

The water supply for local residents is supplied by the City of Aztec and no domestic wells were identified in the area adjacent to the site. The location is on the edge of a rural county subdivision with no residents to the east and south. The formations in this area typically do not produce a quality of water acceptable for domestic, livestock or irrigation use, nor do they produce sufficient quantities to be considered aquifers.

Burlington Resources has been in discussion with WFS to assure proper assessment and closure of this site. BR has been managing and funding the sampling and analysis activities since 2000. A cost sharing agreement with WFS and BR was established in 2000. WFS has not approached BR with arrangements to engage in the cost sharing agreement.

#### RECOMMENDATIONS

- BR recommends continuing a quarterly monitoring program of data to measure the passive natural remediation approach use to adequately remediate the dissolved hydrocarbons in the groundwater and any remaining trace amounts of soil hydrocarbon contamination.
- Burlington Resources will continue quarterly sampling the seep if sufficient water is available.

Attachments: Attachment 1 - Groundwater Sampling Results Summary

Attachment 2 - Site Diagram Attachment 3 - Aerial Photo

# Attachment 1 GROUNDWATER ANALYTICAL RESULTS SUMMARY

## **Attachment 2**

## **SITE DIAGRAM**

## **Attachment 3**

## **Topograhic Location Map**

# Attachment 1 GROUNDWATER ANALYTICAL RESULTS SUMMARY

Well										
Well	Surveyed									Product
	MP Elev.	Sample	Date	GW Elev.	Benzene	Toluene	Ethylbenzen	Xylenes	Total BTEX	Thickness
	(ft,msl)	Notes	Sampled	(ft,msl)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ft)
MW-1			10/30/97	6110.10	2.4	2.3	<0.2	1	π.	1
Upgradient well			01/12/98	6107.47	4.3	3.3	0.2	1.0	8.8	
)	6149.42		04/14/98	6107.52	1.0	1.3	<0.5	<0.5	2.3	-
			07/01/98	6107.13	1.3	1.0	<0.5	3.7	6.0	1
			10/05/98	6106.09	<1.0	<1.0	<1.0	<3.0	<6.0	:
			11/09/98	6107.40	AN AN	NA	AN	NA	AN	1
			01/27/99	6107.51	0.8	0.9	<0.5	<1.5	1.7	1
			66/90/90	6106.76	AN	NA	NA	AN	AN	1
			07/12/99	6106.55	1.1	0.5	<0.5	<0.5	1.6	1
			08/17/99	6106.47	AN	NA	AN	AN	AN	1
			10/21/99	6106.60	AN AN	NA	AN	NA	AN	1
			01/27/00	6106.39	no sample	ple collected				
		BR/onsite labs	06/13/00	6106.39	no sam	no sample collected				
Sample analysis terminated		Lost	01/01/01							
		water level only	6/26/2001	6104.48	no sample collected	ollected				
		water level only	09/18/01	6104.95		no sar	no sample collected			
		water level only	12/18/02	6105.20	no sam	no sample collected				
		water level only	3/22/02	6105.38						
			3/27/03		No level collected					
			6/27/03		No level collected					
		Clear water	9/24/03	P 6105.9	0.97	1	ND	0.4J	2.3J	
		Clear water	12/15/03	6105.92	1.1	0.9J	ND	ND	2.07	
		Silty	3/15/04	8:5019	U	U	U.S.	U	N/A	
		Oloudy	6/21/04	6105.97	0.5	U 🐇 😘	n	n	N/A	
		🌅   Grey/clear 🔍	9/29/04		n 🐣 🛴	U	n.		N/A	なるをあれるがない
	· · · · · · · · · · · · · · · · · · ·	Clear/cloudy	12/31//	**.6106:01!U				3.33	N/A	

MW-2		12/16/96	ZZ	3840.0	0.0967	0.968	7920.0	20616.0	ΣZ
PNM drip pit well		02/04/97	NC	NA	AN	AN	N A N	AN	4.40
6122.23	.23	08/27/97	NC	Ϋ́	NA	ΑN	AN	AN	4.75
		10/29/97	SC	A A	NA	AN	ΑN	₹Z	4.58
		01/12/98	S	Ϋ́	NA	ΑN	ΑZ	AN	4.41
		04/14/98	S	ΑN	AN	ΑN	AN	A Z	2.59
		07/01/98	NC	AN	NA	AN	A'N	NA	2.25
		10/02/98	S	ΑN	NA.	ΑN	ΑN	AN	2.01
		11/09/98	SC	ΑN	NA	Ϋ́	ΑΝ	AN	2.15
		Well destroyed during Burlington	uring Burlingto	n excavation	•				
MW-3		1/31/1997	ΣZ	<0.2	<0.2	<0.2	<0.2	<0.2	:
Up & cross-gradient to PNM		2/4/1997	6101.06	ΑN	AN	ΑN	ΑN	A V	
6121.49	64.	5/5/1997	ΣZ	A A	AN	AN	Ϋ́	Ϋ́Z	1
	(Burlington)	10/29/1997	6101.19	<0.2	<0.2	<0.2	<0.2	<0.2	1
		1/12/1998	6101.11	<0.2	<0.2	<0.2	<0.2	<0.2	1
		4/14/1998	6100.97	<0.5	<0.5	<0.5	<0.5	<0.5	t
		7/1/1998	6101.14	0.03 JB	0.05 JB	<0.5	<0.5	0.08 JB	1
		10/5/1998	6100.57	<1.0	<1.0	<1.0	<3.0	<6.0	-
		11/9/1998	6100.89	<1.0	<1.0	<1.0	<3.0	<6.0	1
		Well destroyed d	ed during Burlington	n excavation					
MW-4		1/31/1997	ΣZ	811.7	1420.5	31.0	388.1	2651.3	
Upgradient PNM; downgradient Burlington	ırlington	2/4/1997	6106.16	NA	NA	AN	AN	Ϋ́	1
	(Burlington)	5/1/1997	ΣZ	1162.0	1797.0	41.0	486.0	3486.0	1
6123.105	105	8/27/1997	6106.87	AN	AN	AN	ΑΝ	₹ Z	\$ 1
		10/29/1997	6106.73	AN	NA	NA	NA	NA	
		1/12/1998	6105.88	1251.0	0.9	82.0	24.0	1363.0	ľ
		4/14/1998	6105.93	1100.0	7.2	28.0	12.0	1147.2	1
		7/1/1998	6106.14	1400.0	20.0	120.0	124.0	1694.0	
		10/5/1998	NC	NA	NA	AN	AN	ΨN	0.63
		11/9/1998	NC	AN	NA	NA	NA	AN	0.26
		1/27/1999	SC	N A	Y V	A A	A V	NA	0.40
		Well destroyed d	ed during Burlington excavation	n excavation					

MW-5			10/29/1997	6075.23	5934	10024	602	8188	24855	-
Downgradient along wash			1/12/1998	6075.09	7521	11213	779	8436		:
	6090.83		4/14/1998	6075.25	7000	11000	720	7800	26520	:
			7/1/1998	6075.43	6500	10000	780	7500	24780	:
			10/5/1998	6074.48	0089	8400	740	0069	22840	-
			11/9/1998	6074.89	6200	8200	029	6500	21570	1
			1/27/1999	6074.87	6400	8900	099	0029		1
			5/5/1999	6075.23	0089	0086	006	7800		1
	(B)	(Burlington)	5/26/1999	NR		10000	650	8100		:
			7/12/1999	6075.60	9000	10000	750	8800	25850	1
			8/17/1999	6076.23	5400	9800	029	7500	23370	Sheen
	(E	(Eco. Split)	8/17/1999	6076.23	2900	8900	200	6200		
		(prelim.)	10/21/1999	6076.17	5200	0096	029	0069	22350	
			1/27/2000	6076.10	4700	10000	089	7400	22780	sewer/black
	B	BR/onsite labs	6/13/2000	6076.12	8400	19000	1700	22000		sheeen
	AC	ACZ LABS	3/29/2001	lost	3890	0096	640	7730	21860	_
	h2	h2s odor	6/26/2001	6075.48	3800	11000	700	0006	24500	
	h2	h2s odor	9/18/2001	6074.96	4100	11000	760	10000		
	h2	h2s odor	12/18/2001	6075.00	3200	9700	009	7800	21300	Sheen
		h2s odor	3/22/02	6075.29	3200	10000	830	8500	22830	
		h2s odor	6/28/02	6074.97	3700	12000	760	10000		
		petro odor	9/23/02	6075.01	3000	0086	640	8300	21740	
		h2s odor	12/31/02	6076.01	2900	8900	580	7300	19680	
	7H]	H2S odor/black w	3/27/03	6077.04	1220	4870	487	6010	12587	
	H	H2S odor	6/27/03	6075.51	2040	8550	640	8020	19280	
	BI	Black water	9/24/03	6074.95	2110		700	9200	21100	
	St	Strong HC odor	12/15/03	6075.37	2150	9240	720	8810	20920	
	Nc	網網	3/112/02	6076.24	1370			8710	18840	
	Bl	Black		6075.35		8740	640	8220	19210	
	B	Black HC odor	9/29/04	. 6074.63	1710	7250	670	0608	17720	
	BI	BIK,bailed dry	12/31/04	6075.25	1820	A 9150	730	0806		20730

TMW-1 TEMP WELL IN WASH BETWEEN MW5 AND 7	<b>ASH BETWE</b>	EN MW5 AND 7								
	NONE		1/27/2000	18.09 dtw	930	1400	350	0029	9380	
		BR/onsite labs	6/13/2000	17.44 dtw	2400	3400	550	9100	15450	Film
		Lost								
			60/26/01	18.23 DTW	1100	3500	330	2200	10430	
			9/18/2001	18.99	well purged a	18.99 well purged dry no sample collected	collected		0	
		dry	12/18/2001	19.59	19.59 No sample collected	ollected			0	
		insufficient h20	3/22/02	19.52	19.52 No sample collected	ollected			0	
		insufficient h20	6/28/02	20.05	20.05 No sample collected	ollected			0	
		insufficient h20	9/23/05	19.51	19.51 No sample collected	ollected			0	
		insufficient h20	12/31/02		19.5 No sample collected	ollected			0	
		insufficient h21	3/27/03		19.5 No sample collected	llected			0	
		Special sampling	5/23/03	Lost	830	123	107	1004.7	2064.7	
		Bailed dry	6/22/03	17.75	474	36.6	59.6	490.7	1060.9	
		Bailed dry	9/24/03	18.83	292	139	17	221	699	
4		insufficient h20	3/1/5/04	Dry	No sample collected	ollected 🐣 🔄			0	
		Section   Clear	6/21	/04 18:85 DTW			14.1	14.7	69.4	
		Black/H2s odor	67/6 💮 💉	/04 19:08 DTW	[0].	2.8	9.65/**/>	458:5	8.986	
というない はいかい かんかん ないかん かんかん かんかん かんかん かんかん かんかん か		Grey/bailed dry	12/31	/04 19:32 DTW	3J	5J	TURNS SERVICE	110.22.72	0	
		Bailed dry	12/15/03	19.08	55.9	1.3	3.9	42.5	103.6	
MW-6			insufficient h2	3/27/03	19.5	19.5 No sample collected	llected			0
PNM drip pit/product recovery	overy		Special sampli	5/23/03	Lost	830	123	107	1004.7	2064.7
			Bailed dry	6/27/03	17.75	474	36.6	9.65	490.7	1060.9
			Bailed dry	9/24/03	18.83	292	139	17	221	699
			Bailed dry	12/15/03	19.08	55.9	1.3	3.9	42.5	103.6
			11/9/1998	NC	AN	AN	NA	NA	NA	2.27
			Well destroyed	Well destroyed during Burlington excavation	ton excavatio	u				

MW-7		1/12/1998	6047.12	780.0	246.0	258.0	3942.0	5226	
Downgradient along wash; adj pipeline	peline	04/14/98	6047.09	820.0	340.0	190.0	2450.0	3800	
6.9909	16.91	07/01/98	6047.03	950.0	440.0	200.0	3020.0	4610	:
		10/02/98	6046.77	1600.0	930.0	180.0	1530.0	4240	:
		11/09/98	6046.77	1800.0	1000.0	160.0	1240.0	4200	
		01/27/99	6046.77	2100.0	1000.0	160.0	1050.0	4310	1
		66/50/50	6046.44	210.0	2.9	30.0	147.0	390	1
(Burlington)	gton)	02/56/99	NR	190.0	7.4	32.0	150.0	379	:
		7/12/1999	6046.04	130.0	7.2	22.0	101.3	261	1
		8/17/1999	6046.61	NA	AN	AN A	NA	AN	;
(prelim.)	m.)	10/21/1999	6047.47	260.0	11.0	15.0	89.0	375	
		01/27/00	6047.65	670.0	580.0	54.0	0.089	1984	
	BR/onsite labs	06/11/00	6047.87	420.0	1100.0	75.0	1400.0	2995	
	ACZ/Lost	03/29/01	lost	830.0	150.0	320.0	1790.0	3090	
	H2S odor	06/26/01	6047.39	540.0	330.0	250.0	1410.0	2530	
	H2S odor	09/18/01	6047.06	870.0	560.0	320.0	2020.0	3770	
	h2s odor	12/18/01	6046.71	400.0	30.0	160.0	885.0	1475	Sheen
	h2s odor	3/22/02	6046.43	180 ND	QN QN	78	260	518	ਠੱ
	h2s odor	6/28/02	6047.38	88	1	41	79	210	
	h2s odor	9/23/02	6046.39	80	ဇ	31	18.89	133	
	h2s odor	12/31/02	6046.76	160	2.2	74	31.5	268	
	Grey color	3/27/03	6047.13	195	0.4	44.2	109	349	
	H2S odor	6/27/03	6047.57	300	1.4 J	117	461.6	879	
		9/24/03	6047.03	06	12	2	694	798	
	HC odor	12/15/04	6046.77	150 4J	†1	115	549	814	
	🕒 -  Bailed Dry 💉 🖺	3/15/04	6046.71			9 - 9	2		
	🐑 🐪 Bailed Dry: 👈 🐩	6/21/04	6047.21	∩[08I->>> ∛		789   52   787	587	235	
	Bailed Dry	9/29/04	6046.79	. : 163 0.9			8.69	287	
	black	12/31/04	6046.88		94 33	01/2/10	10 24J	104	立とは外外の対

MW-8		1/12/1998	6104.71	6410.0	17301.0	693.0	9397.0	33801.0	Sheen
Upgradient PNM; downgradient Burlington	rlington	4/14/1998	6104.41	AN	NA	NA	A A A	AN	0.37
6122.97	97	7/1/1998	6105.14	NA	NA	NA	NA	AN	0.37
		10/5/1998	6104.54	NA	AN	NA	A A A	AN	0.13
		11/9/1998	6104.77	AN	AN	NA	A A	AN	0.02
		Well destroyed during Burlington excavation	during Burlingto	on excavation	_				
WW-9		7/1/1998	6100.12	12.0	0.2	9.0	1.3	14.1	1
Upgradient PNM, crossgradient Burlington	lington	10/5/1998	6100.03	16.0	<1.0	1.1	2.1	19.2	:
6122.52	52	11/9/1998	6100.40	12.0	<1.0	<1.0	<3.0	12.0	ŀ
		1/27/1999	6099.23	8.0	<0.5	<0.5	2.2	3.0	ļ
		5/5/1999	6099.92	73.0	<0.5	2.2	1.6	76.8	F
		5/26/1999	6100.07	120.0	<0.5	2.5	1.8	124.3	-
	(Burlington)	5/26/1999	RN	120.0	<0.5	1.6	0.8	122.4	
		7/12/1999	6100.18	140.0	<0.5	1.5	<0.5	141.5	;
	(prelim.)	8/17/1999	6100.92	290.0	<0.5	9.0	<1.5	290.6	1
	(prelim.)	10/21/1999	6100.73	320.0	<0.5	9.0	<1.5	320.0	Sheen
		1/27/2000	6100.62	130.0	pu	pu	nd	130.0	
	BR/onsite labs	6/13/2000	6100.54	<0.5	1.9	<0.5	2.5	4.4	
	ACZ/lost	3/29/2001	lost	<0.2	<0.2	<0.2	<0.2	0.0	
		6/26/2001	06.6609	<0.5	<0.5	<0.5	<1.0	0.0	
		9/18/2001	6099.85	<0.5	<0.5	<0.5	<1.0	0.0	
	no odor	12/18/2001	6099.82	<0.5	<0.5	<0.5	<1.0	0.0	
	H2s mild	3/22/2002	6099.84	ND	DN	ND	ND	0	
		6/28/2002	6099.64	QN	QN	QN	QN	0	
		9/23/2002	6099.62	ND	DN	ND	ND	0	
		3/27/03	6100.09 ND		ON	ND	ND		
		6/27/03	6100	0.4 J	DN	ND	ND	0.47	
		9/24/03	6099.81 N	ND ON	ND DN	ND	ND	0	
	Clear	12/15/03	6099.88 0.5 <sub>5</sub>		ND	ND	ND	0.5J	
	Service   Clear	3/15/04			U Mineral	US COM	USS	N/A	
	clear to cloudy	6/21/04	≪ * 6099:80 N · ×		n	A CAMPA	U.S.	N/A	があるない。
The second secon	🎉 [Lt. Brown 💸 🔝	9/29/04	6099.78 U		U		USANT	, Y/N	
	🏸 🌅 💮 🦈 Clear	12/31/2004	∴ ₹6099.82		0:47	ne en en en	0.73		

MW-10			7/1/1998	SC	AN	AN	AN	AN NA	AN	2.00
Upgradient PNM, downgradient Burlington	adient Burling	gton	10/5/1998	NC	NA	AN	AN	AN	AN	1.91
	6122.5		11/9/1998	NC	NA	ΥN	AN	AN	AN	2.10
			Well destroyed	during Burlington excavation	n excavation	LC				
MW-11			1/27/1999	5958.60	<0.5	2.5	0.7	7 13.1	16.3	1
Downgradient well - 1800', r	6015.75		5/5/1999	5958.65	<0.5	<0.5	<0.5	5 <1.5		1
		(Burlington)	5/26/1999	EN EN	0.8	1.7	<0.5	1.	3.6	1
			7/12/1999	5958.27	NA	AN	AN	A		1
			8/17/1999	5958.62	NA	NA	AN	AN	NA NA	1
	(prelim.)		10/21/1999	5958.90	<0.5	<0.5	<0.5	V	V	
			1/27/2000	5959.10	<0.5	<0.5	<0.5	5 <0.5		10
		BR/onsite labs	6/13/2000	5959.21	<0.5			5 0.9		0
		ACZ/lost	3/29/2001	lost	<0.2	<0.2	<0.2	2 <0.2	0.0	
		rdish brn h2o	6/26/2001	2959.14	<0.5			5 <1.0		0
		rdish brn h2o	9/18/2001	5959.28	<0.5	<0.5	<0.5	5 <1.0	0.0	0
		no odor	12/18/2001	5959.25	<0.5		<0.5			
		H2s	12/19/2001	5959.2	Q.	QN	QN	QN		0
			12/20/2001	5959.32	QN	ΩN	QN			0
			12/21/2001	5959.25	<u>N</u>	QN	Q	ON		0
			12/22/2001	5959.4	S	QN	QN	QN		0
			5/24/03	Lost	ND	QN	ND	ND		0
			6/27/03	5959.4 0	0.4J	0.3J	QN	0.43	1.1	
			9/24/03	5959.51 N	ND	ND	QN	QN		0
			12/15/03	5959.59	0.5J	QN	QN	QN	0.5J	
			3/15/04	ัก   เ9'6565 💎 📉	Commence of the Commence of th	- X - A - A	n.	: - : n	N/A	
A TO THE WAY OF THE PARTY OF TH		Clear 🔩 🐑	6/210/04	. 5959'61 U	2908 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		**************************************	O:51	N/A	
	44		. 9/29/04	N 9:6565 🔭 📑	- ***** ^∩	s seeks n	n		N/A	
The state of the s	Marie Marie Com	red/hrown 12/31/2004	12/00/12/01	5050 53 II	S. Andrewson, M.		2 do		NI/A:	

MW-12 (source well @ MM	6109.02		5/5/1999		790.0	840.0	260.0	2880.0	4770	
			5/5/1999		1200	13000	5100	68000	87300	1
SOIL sample TPH (ppm	2350		5/26/1999	6099.45	1900	820	200	1720	4640	Sheen
		(Burlington)	5/26/1999		1800	640	160	1600	4200	1
			7/12/1999	6099.63	4500	260	400	3100	8760	Sheen
		(duplicate)	7/12/1999		4600	730	390	3080	8800	
			8/17/1999	6100.56	4800	2000	320	3390	13510	Sheen
		(Eco. Split)	8/17/1999	6100.56	2900	. 6100	390	4100	16490	
		(prelim.)	10/21/1999	6100.17	2600	029	540	2890	0896	Sheen
			1/27/2000	6070.49	4100	550	430	2379	7459	
		BR/onsite labs	6/13/2000	6085.43	2000	1300	490	2700	9490	
		ACZ/lost	3/29/2001	LOST	5170	1790	366	2620	9946	
		h2s odor	6/26/2001	6084.8	4800	1900	390	2560	9650	
		h2s odor	9/18/2001	6084.71	5100	2400	430	2820	10750	Sheen
		h2s odor	12/18/2001	6084.72	4000	1500	320	1880	7700	
		H2s odor	3/22/2002	6084.72	3300	930	290	1270	5790	sheen
			6/28/2002	6084.56	4200	1800	410	1940	8350	
			9/23/2002	6084.56	3800	1500	310	1510	7120	
			12/31/2002	6084.62	3600	840	280	1010	5730	5730 Sheen
			03/27/03	Dry					0	
			05/24/03	lost	3990.0	2230.0	299.0	1470.0	7989	
			06/27/03	6084.9	5290.0	2750.0	360.0	1600.0	10000	Sheen
		HC odor	09/24/03	6084.7	4600.0	1690.0	290.0	1150.0	7730	
	-	HC Odor		6084.8	4200.0	1360.0	240.0	1150.0	0969	
		🎺 🎨 clear 🦋	1000 C	. 6084:8	2090.0	1120:0	300.0>	1250:0	4760	
		Gray			3870.0	1820.0		1500.0	7470	では 大大
		Blk,HC odor,clear 06/29/04			5140.0	2220.0	240:0	1280:0	0888	10 10 10 10 10 10 10 10 10 10 10 10 10 1
		black/gray	12/31/04	\$ -8.88.89 F	4160.0	1220.0	250.0	1150:0	6780	

MW-13	6122.76		5/26/1999	-	1800.0	25.0	0	12.0	35.3	1872.3	1
BROG well between pit & MW-4	W-4	(Burlington)	5/26/1999	,	2100		22	8.8	59	2159.8	1
			7/12/1999	6104.3	2100		14	6.6	10.9	2134.8	-
			8/17/1999	6104.7	1900	<10	0	<10	<30	1900.0	
		(prelim.)	10/21/1999	6104.71	1600	<10	0	×10	<30	1600.0	
			1/27/2000	6104.44	1600	2.2	2	1.5	0.5	1604.2	
		BR/onsite labs	6/13/2000	6104.59	730	<2.5	5	<2.5	<2.5	730.0	
MW-14			10/21/1999	1	not sampled -	- 2 feet of f	2 feet of free product				1.92
BROG well near TPW07				depth to water 22.14, depth to product 20.22 (no datum	22.14, depth	to product	20.22 (no d	4	surveyed yet)		
			1/27/2000 Not	sampled	2.5 feet free productdepth to water 22.90	productdept	h to water 2		depth to product	roduct 20.40	
		BR/onsite labs	6/13/2000	6/13/2000 Not sampled 2	2.16 feet product		Depth to water 22.51	22.51	depth to p	depth to product 22.51	
MW-15	No survey da	(prelim.)	10/21/1999	:	<0.5	1.2	2	<0.5	1.5	2.7	1
BROG well near separator pground level MP	ground leve	MP		depth to water 17.84 (no datum surveyed yet)	17.84 (no da	atum survey	ed yet)				
			1/27/2000		<0.5	<0.5	5	<0.5	<0.5	0.0	
				depth to water		(DTW) 18.36 (no survey data		available)			
			6/13/2000	0	<0.5	<0.5	5	<0.5	<0.5	<0.5	
				18.08 DTW							
		ACZ/lost	3/29/2001	lost	<0.2	<0.2	<0.2	<0.2	0.1	0	
		Onsite	6/26/2001	19.66 DTW	<0.5	<0.5	5	<0.5	,0.5	0.0	
		Onsite	9/18/2001	19.22 DTW	<0.5	<0.5	5	<0.5	,0.5	0.0	
		no odor	12/18/2001	19.12 DTW	<0.5	<0.5	2	<0.5	,0.5	0.0	
		no odor	3/22/02	19.10 DTW	ON	QN	QN	2		0	
			6/28/02	6/28/02 19.08 DTW	QN	QN	9	2		0	
			9/23/05	/02 19.05 DTW	QN	ND	ND Q	2		0	
				19.00 DTW	ND	ND	ND	QN		0	
			3/27/2003	18.72 DTW	n	0.3		n	0.90	1.2 J	
		Slight HC odor	6/27/2003	18.12 DTW	0.4	ON	D	ND	DN	0.43	
		Light Gray	9/24/2003	18.43 DTW	ΠN	ON	Q	DN	ΔN	0.0	
		Clear	12/15/2004	18.61 DTW	0.7J	QN	D	ND	QN	L7.0	
		Silty	3/15/2004	18.75 DTW					$\mathbb{N}[n]$	re:0	はないのかと
		Cloudy	6/21/2004	18.25 DTW	n je skape		<b>U</b>			N/A	
		:  Cloudy;	> 9/29/2004	18.33 DTW	<b>n</b>				n S	N/A	は 1000000000000000000000000000000000000
		Cléar 💮 💮 🕯		18:48 DTW	A. C. S. S. S.	N60		_0.3J	∴.1.4J	%%%.1.6 <b>∪</b> [	

MW-16	No survey	(prelim)	10/21/1999		220.0	300.0	5.4	142.0	667	
	TAN CALL		10/04/40/04		0.00	0.000	5	1 1	100	
Hecovery well near excavation woncy	ID M ONE	(parlington)	6661/17/01		Z14.0			0.10	03/	:
				depth to water 1	14.93 (no datum	um surveyed yet)	/et)			
			1/27/2000		1600	170	99	225	2051	
		depth to water 24.22 (no surv	.22 ( no survey	/ey data available	Note stick up	k up added to well in	well in 2000			
		BR/onsite labs	6/13/2000	24.16	8700	430	089	2200	12010	
				No sample collected well could not be found due	cted well cou	ald not be four	nd due to excar	to excavation materials	als adjacent to well	well
		H2s odor	6/26/2001	24.91	9300	1100	810	3410	14645	
			9/18/2001	24.77	11000	6400	290	6400	24415	sheen
		HC odor	12/18/2001	24.82	0066	0069	925	7400	24770	sheen
		product odor	3/22/2003	24.92	10000	0099	1100	7400	25100	sheen
			6/28/2002	25.03	11000	2000	770	2200	24470	
		product odor	9/23/2005	25.04	8900	0066	610	8200	27910	Sheen
			12/31/2002	24.5	8800	7900	770	7400	24870 Sheen	Sheen
			3/27/03	24.63	10400	11200	840	8670	31110 Sheen	Sheen
		Bailed Dry	5/27/03	24.67					0	
		Bailed Dry/HC od		24.74	10300	15400	870	10590	37160	
		Strong HC odor	12/15/04	27.70	9640	12600	720	1550	24510	
	· · · · · · · · · · · · · · · · · · ·		教制	**************************************	< 9200	16000	<b> </b> 01216	12000	38510	
		Heavy HC odor	100	24.76 DTW: 🔝	8040		2450	18580	47,170	
		Bailed Dry.		24.79 DTW	8330	14000	760	8230	31320	
		HC odor/dry	12/31/04 24.77 D.TW	24.77 DTW	8340	17100	1550	18830	45820	
TMP-1			11/11/1997	MN	2171.0	4185.0	190.0	2856.0	9402.0	
11			7/1/1998	6057.61	2000.0	4300.0	180.0	2700.0	9180.0	ł
= MP =	6076.48		11/9/1998	NM	980.0	1900.0	84.0	1540.0	4504.0	;
		(prelim.)	10/21/1999	6058.11	1000.0	3100.0	410.0	9700.0	14210.0	
EB WELL			11/25/1997	5959.74	<0.2	<0.2	<0.2	<0.2	<0.2	1
Downgradient private wel	- Total		10/21/1999	5960.93						
MP	6028.64			-						
<b>Burlington Excavation</b>	Surface Water	ıter	2/11/1998	15'	1800	1700	<25	1420	4920	rainbow
	Surface Water	ıter	7/1/1998	6106.26	10.0	0.4	0.1	1.5	12.0	rainbow
	Surface Water	Iter	11/9/1998	Z	2.9	16.0	7	18.1	37.0	1
	Soil - @ water	9	7/1/1998	WN	36000	5600000	100000 0 1430000 0	430000	2126000	
	200 - WA	<u> </u>			2	0.0000	2.000	0.0000	4140000.0	1

Intermittent Seep	Surface Water	ər	7/1/1998	6098.72	1.6	0.7	9.0	0.36	3.26	rainbow
	Surface Water	er	4/14/1999		40.0	2.2	2.1	19.00	63.30	rainbow
	Surface Wat	(prelim.)	10/21/1999		65.0	230.0	11.0	434.00	740.00	
	Surface Wat	ACZ/lost	3/29/2001	none	11.6	<0.2	0.7J	25.40	37.00	
	Surface Wat	seep		none	<0.5	<0.5	<0.5	<1.0	00.0	
	Surface Wat	dəəs	9/18/2001	none	<0.5	<0.5	<0.5	<1.0	0.00	
	Surface Wat	seep	12/18/2001	none	<0.5	<0.5	<0.5	<1.0	00.0	
	Surface Water	dees	3/22/2002	none	5.9	QN	0.8	3.4	10.1	
	Surface Water	dees		none	ON .	QN	QN	2	0	
	Surface Water	dees		none	QN	QN	QN	Q	0	
	Surface Water	seep	12/31/2002	None	0.7	QN	QN	Q	0.7	
	Surface Water	dees		None	6.9	0.23	1.8	10.1	18.4	
	Surface Water	DRY		DRY				:		
	Surface Water	Seep		None	ΩN	0.3J	QN	QN	0.33	
	Surface Water	Seep Clear	12/15/2003	None	C4.0	0.3J	QN	QN	0.7J	
The state of the s	Surface Water	deeS	Seep 💉 3/15/2004	None		<b>自</b> 、《漢語》	D	A SECTION	N/A	
	Surface Water	deeS	6/21/2004	None			D	D.	N/A	
	Surface Water	deeS		None None		De Marie Marie		n v	N/N	
	Surface Water	Seep	12/31/2004	None	P	0.20	n N	0.4	0.0	
<b>Burlington Temporary Monitoring Well Sampling</b>	y Monitoring Well									
				:				- 1		
			Date	Uepth	Benzene	loluene	Ethylbenzene	Xylenes	Total BTEX	TPH
Sample	Matrix		Sampled	(#)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(mg/Kg)
TPW-01	Water		6/5/1997		20.0	▽	▽	▽	20.0	NA
	Soil			25-26'	~	₩	₩.	₽	7	<10
TPW-02	Water		6/5/1997	Product	NA	NA	NA	N A	NA	NA
	Soil			25-26'	2000.0	4600.0	14000.0	39000.0	29600.0	0.009
TPW-03	Water		6/5/1997	Dry	NA	NA	NA	AN	AN	NA
	Soil		6/5/1997	25-26		<b>▽</b>	7	⊽	7	25
TPW-04	Water		6/6/1997		2000.0	3100.0	57.0	810.0	5967.0	AN
	Soil		6/6/1997	20-21.5'	28.0	3.4		40.0	147.4	52

The Part   Soil   Girl 1997   15-16   1600.00   10000.00   4500.00   4500.00   46500.00   610	TPW-05	Water		6/6/1997		5800.0	460.0	16000.0	7000.0	29260.0	NA
997         1600.0         3400.0         48.0         690.0         5738.0           997         16-16.5         <1		Soil		6/6/1997	15-16'	4000.0	10000.0	4500.0	28000.0	46500.0	61
997         16-16.5'         <1         2.8         4.8.0         690.0         57.85.0           997         16-16.5'         <1				10070		000	0000	001	0	000	4
997         16-16.5'         <1         <1         <1         <1         <1         <1         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6         <1.6 <td>1 PW-06</td> <td>water</td> <td></td> <td>/661/9/o</td> <td></td> <td>1000.0</td> <td>3400.0</td> <td>4&amp;.U</td> <td>0.069</td> <td>5738.0</td> <td>NA</td>	1 PW-06	water		/661/9/o		1000.0	3400.0	4&.U	0.069	5738.0	NA
997         5500.0         18000.0         620.0         9300.0         33220.0           997         15-16'         7000.0         74000.0         20000.0         170000.0         271000.0           998         15-16'         335         697         181         1808         3021         2           998         15'         1950         9960         2460         22590         36960         36960           997         14.4'         NA         NA         NA         NA         NA         1           997         16.5'         NA         NA         NA         NA         NA         NA         NA           997         16'         NA         NA <td< td=""><td></td><td>Soil</td><td></td><td>6/6/1997</td><td>16-16.5'</td><td>⊽</td><td>▽</td><td>2.8</td><td>4.8</td><td>7.6</td><td>11</td></td<>		Soil		6/6/1997	16-16.5'	⊽	▽	2.8	4.8	7.6	11
997         15-16'         7000.0         74000.0         20000.0         170000.0         271000.0           988         15-16'         335         697         181         1808         3021         2           998         15'         1950         9960         2460         22590         36960         36960           997         12.7'         NA         NA         NA         NA         1           997         14.4'         NA         NA         NA         NA         1           997         16.5'         NA         NA         NA         NA         NA           997         16'         NA         NA         NA         NA         NA           997         14'         NA         NA         NA         NA         NA           997         14'         NA         NA         NA         NA         NA	TPW-07	Water		6/6/1997		5300.0	18000.0	620.0	9300.0	33220.0	NA
98         15-16'         335         697         181         1808         3021         2           98         15'         1950         9960         2460         22590         36960           97         12.7'         NA         NA         NA         NA         1           97         14.4'         NA         NA         NA         NA         1           997         15'         NA         NA         NA         NA         NA           997         16'         NA         NA         NA         NA         NA           997         16'         NA         NA         NA         NA         NA           997         16'         NA         NA         NA         NA         NA           997         14'         NA         NA         NA         NA         NA      8 noted in the "Sample Notes" column.         NA		Soil		6/6/1997	15-16'	7000.0	74000.0	20000.0	170000.0	271000.0	250
998         15-16'         335         697         181         1808         3021         2           998         15'         1950         9960         2460         22590         36960           997         12.7'         NA         NA         NA         NA         1           997         14.4'         NA         NA         NA         NA         1           997         15'         NA         NA         NA         NA         NA         1           997         15'         NA	Burlington Profile Bori	ings									
998         15'         1950         9960         2460         22590         36960           997         12.7'         NA         NA         NA         NA         1           997         14.4'         NA         NA         NA         NA         1           997         15'         NA         NA         NA         NA         NA           997         15'         NA         NA         NA         NA         NA           997         16'         NA         NA         NA         NA         NA         NA           997         16'         NA         N	SB-1 (near BROG excar	ivatic Soil		0/8/1998	15-16'	335	269	181	1808	3021	26.4
997         12.7°         NA         NA         NA         NA         1           997         14.4°         NA         NA         NA         NA         1           997         16.5°         NA         NA         NA         NA         NA         1           997         16.5°         NA	SB-2 (near PNM former	r pit) Soil		0/8/1998	15'	1950	0966	2460	22590	36960	194
197         12.7*         NA         NA         NA         NA         NA         NA         1           997         14.4*         NA         NA         NA         NA         NA         1           997         15'         NA         NA         NA         NA         NA         NA           997         14.5'         NA         NA         NA         NA         NA         NA           997         16'         NA         NA         NA         NA         NA         NA         NA           997         14'         NA	PNM Test Holes along	Wash									ID (ppm)
1997         14.4*         NA         NA <t< td=""><td>TH-1</td><td>Soil</td><td>11</td><td>/11/1997</td><td>12.7</td><td>NA</td><td>A A</td><td>NA</td><td>AN</td><td>_</td><td>1412</td></t<>	TH-1	Soil	11	/11/1997	12.7	NA	A A	NA	AN	_	1412
997         16.5°         NA         NA <th< td=""><td>TH-2</td><td>Soil</td><td>11</td><td>/11/1997</td><td>14.4'</td><td>NA</td><td>AN</td><td>NA</td><td>NA</td><td>NA</td><td>1357</td></th<>	TH-2	Soil	11	/11/1997	14.4'	NA	AN	NA	NA	NA	1357
997         15'         NA         NA         NA         NA         NA         NA         NA         NA         14         NA         N	TH-3	Soil	11	/11/1997	16.5'	NA	AN	NA	A A	NA	0
1957         14.5'         NA         <	TH-4	Soil	11	/11/1997	15'	NA	NA	NA	NA	NA	279
997         16'         NA	TH-5	Soil	11	/11/1997	14.5	NA	AN	NA	NA A	AN	1211
197         NA         2171.0         4185.0         190.0         2856.0         170000.0           197         14'         NA         NA         NA         NA           2 noted in the "Sample Notes" column.         NM = Not measured         NC = Not Calculated (profitation Limit         NM = Not analyzed         NC = Not Calculated (profitation Limit           1 hod Blank         NA = Not analyzed         ND = Anaylzed for but not detected to the column of	9-HL	Soil	. 11	/11/1997	16'	NA	AN	A'N	NA	NA	0
197         14'         NA         NA         NA           In the "Sample Notes" column.         NM = Not measured           Initiation Limit         NM = Not measured           thod Blank         NA = Not analyzed ND=           102 None         2 < 0.5	TH-7 (temporary well)	Water	11,	/11/1997	NA	2171.0	4185.0	190.0	2856.0	170000.0	279
interior Limit Notes" column.  NM = Not measured thod Blank NA = Not analyzed ND= 20.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0.5: <0	TH-8	Soil	11	/12/1997	14'	NA	NA	NA	AN	NA	0
thitation Limit  NM = Not measured  thod Blank  NA = Not analyzed ND=  2 < 0.5 < 0.5 < 0.5	Notes:	All wells sampled b	yPNM unless oth	erwise note	d in the "Sam	ple Notes" colu	nmr.				
thod Blank  2 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5		J = Analyte detecte	ed below Practical					M = Not mea		VC = Not Calculat	ed (product)
02 None < < < > < < < < < < < < < < < < < < <		B = Analyte detecte	ed in the associate	ed Method E	3lank		Z	A = Not analy		naylzed for but n	ot detected
	2001 Excavation stand	<b>ding</b> none	9	/26/2002 No	one	2 <c< td=""><td></td><td></td><td>1 .0</td><td>.2</td><td>4, 40</td></c<>			1 .0	.2	4, 40

Location:_ Project Ma Depth to V Water Col Sampling	Hampto anager _ Vater umn Hei Method:	n 4M MJN Deght Submer	We pth to Pro Well sible Pun	Il No: <u>Se</u> pduct <u>na</u> I Dia  np □	DateProc	3/15 duct T ugal F Chee	5/04  Thicknes  Pump   ck Valve	Start 1 sna  Perista Bailer  Indicator	Dimo	evelopme e 1312 deasuring Pump E	Burlington Resources ent Sampling Weather_sunny 60s Point _TOC  Other   Steel Kemmerer   X Other_or bail dry
Gal/f	t x ft of v	vater		Gallons				Ounces			Gal/oz to be removed
Time (military)	pH (su	l l	SC hos/cm)	Temp (°F)	ORF (millivo		D.O. (mg/L)	Turbidi (NTU		Vol Eva	c. Comments/ Flow rate
Final:								Ferrous	1	: *V:	
Time 1124	рН	SC	Temp	Eh-ORP	D.O.	Tu	rbidity	Iron	V	ol Evac.	Comments/Flow Rate
	1,	a 1 1	4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	¢', +	<u></u>		An A			
COMMEN	TS: Wa	ter was o	clear.								
	posal <u></u>	Conduc		nitor ter <b>X</b> D <u>Hampton</u>	4M Seep	0		_ 01 - S	her am	ple Time_	1312
BTEX VO Total Phos MS/MSD_	phorus	ĺ		ions Anior				nmonia TK			

Location:_ Project Ma Depth to V Water Col Sampling Bottom Va	Hampto anager _ Vater umn Hei Method:	n 4M  MJN  na De ght na  Submer	epth to Pro We	II No: <u>TN</u> oduct <u>na</u> II Dia	MW-1 DateProd_2" Centrifu Double Cl	3/1! luct gal I heck	5/04 Thickness Pump □	Start Tis_na    Perista   ailer	Developr ime0920 _Measurin  Itic Pump  Stainless	nent ) g Poi  -Stee	rlington Resources  Sampling Weather_cloudy 40s ntTOC  Other □  Kemmerer □  Other_or bail dry
Gal/f	t x ft of v	vater		Gallons				Ounces		C	Gal/oz to be removed
Time	рH		SC	Temp	ORP		D.O.	Turbidity	V Vol E	/ac	Comments/
(military)	(su		hos/cm)	(°F)	(millivol		(mg/L)	(NTU)	, ,		Flow rate
•											
									,		
Final:								Ferrous			,
Time	pН	SC	Temp	Eh-ORP	D.O.	Tu	rbidity	Iron	Vol Evac	.   Co	omments/Flow Rate
, ,		, , .		y					a. See See See See See See		
COMMEN	TS: No	water in	well. No	sample col	lected.						
INSTRUM	FNTATI	ON·	pH Meter	X				Ton	nperature	Meter	· <b>Y</b>
	-1417(11	<b>014.</b>	DO Mo					Oth	•		
	á		ctivity Met					- • <del></del> -			
				O <u>na</u> ions Anion						CC M	Ietals
Total Phos		y	LIV GAU	.ono minor	io raidad	. IN	1111	moma IIV	. , <u>, , , , , , , , , , , , , , , , , ,</u>		ectars
MS/MSD_	<del> </del>		BD_			BD	Name/Tir	ne	· · · · · · · · · · · · · · · · · · ·		TB

Project No.:_		Pro	oiect Nam	ne BR Grou	ndwater S	Sam	plina	Client:	Burlinaton		
Location: :_h			-	•					ment Sa		lina
Project Mana											Weather_clear 40s
											uring PointTOC
Water Colum						, , ,	odet i iii	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<del></del> ···	-	
· · ·											
Sampling Me	ethod: S	ubmer	sible Pun	np 🗆	Centrifuç	gal F	Pump 🗆	Peristal	tic Pump [		Other
	В	ottom	Valve Ba	iler	į	Dou	ble Chec	k Valv <b>⊡</b> Ba	iler St	ainle	ess-Steel Kemr⊡rer
Criteria: 3 t	to 5 Cas	ing Vol	umes of	Water Rem	oval <b>X</b> st	abil	ization of	Indicator F	'arameters	X	Other or bail dry
					Water Vo	lum	e in Well				
	ft of wa	ter		Gallons				Ounces			Gal/oz to be removed
5.92	2 x 0.16			0.97							2.90
			<u> </u>								
Time	рН		SC	Temp	ORP		D.O.	Turbidity	Vol Eva	ac.	Comments/
(military)	(su)	(uml	nos/cm)	(°F)	(millivolt	ts)	(mg/L)	(NTU)	( gal)	)	Flow rate
0943	5.9	3	8860	55.9					0.25	7	silty
	5.29	4	1000	56.3					0.5		
	5.12	3	1980	56.4					0.75		
0948	5.09	4	1040	56.7			•		1.0		
	5.04	<u> </u>	1010	56.3					2.0		
	0.04			00.0							
											•
J					<u> </u>					!	
Final:	1	grandania. Parana				·	T	Ferrous			
Time pl		SC .	Temp	Eh-ORP	D.O.	Tu	rbidity	Iron	Vol Evac.		omments/Flow Rate
<u>0958</u> 5	5.08	4040	56.4						3.0	Si	ilty
				Lestina e e o	\$ 1.50	٠.			<u> </u>	£ 14	
COMMENTS	<u> </u>										
OCIVIIVILIAI											
INSTRUME	OTATIO	N:	pH Meter	X				Tem	perature N	/lete	r <b>x</b>
			DO Mo			-		Oth	•		
	(	Conduc	ctivity Me								
   Water Dispo			Stivity ivio		e ID MW-	1 S	ample Tir	- me <u>      0958</u>			
BTEX VO				Samp	C 10 10100		anipio ili		<u>.                                      </u>		
MS/MSD			BU			BD	Name/Tir	me			_ TB
1010/1010D			ַטט_			טט	14ame/ 1				_ 10
1											

Project No.:_i										_
	•									Weatherclear 40s
Project Mana										
•						PIC	ouct mic	ckness: <u>n</u>	a ivie	asuring PointTOC
Water Colum	ın Heigri	_7.64	<u>-</u> wei	i Dia						
Sampling Me	ethod: Si	ubmer	sible Pum	np 🗌	Centrifu	gal I	Pump [	] Peristal	tic Pump [	Other 🗆
	В	ottom	Valve Bai	ler		Dou	ble Chec	k Valv <b>⊡</b> Ba	iler Sta	inless-Steel Kemr⊡rer
Criteria: 3 t	o 5 Casii	ng Vol	umes of \	Nater Rem	oval <b>X</b> s	tabil	ization of	Indicator F	Parameters	X Other <u>or bail dry</u>
					Water Vo	olum	e in Well			
	ft of wat	er		Gallons				Ounces		Gal/oz to be removed
7.64	x 0.16			1.25 						3.75
Time	pН		SC	Temp	ORP		D.O.	Turbidity	/ Vol Eva	c. Comments/
(military)	(su)	(uml	nos/cm)	(°F)	(millivo	ts)	(mg/L)	(NTU)	( gal)	Flow rate
1325	4.46		5560	58.9 					0.25	
	5.22		750	57.3					0.5	,
	2.72		920	55.8					0.75	
1330	3.01		5520	55.8					1.0	
1333	3.51		950	55.6					2.0	
<u>1337</u>	3.94	5	320	57.0					3.0	
	_									,
	_									
	<del></del>					Ī		Ferrous	e og i ty	
Final: ph	1 S	_	Temp .	Eh-ORP	D.O.	 	rbidity	Iron	Vol Evac.	Comments/Flow Rate
		430	55.8	LITOITI	D.O.	1 4	·	HOH	4.00	clear
		•			l	<u> </u>		·		
COMMENTS	3: well ba	iling d	own							
MOTOLUTE	IT 4 T : 0 .	l.	-1184 -				<del></del>			
INSTRUMEN	MOLLATION	1: I	oH Meter						nperature Me	eter <b>x</b>
	С	onduc	DO Mo					<sub>-</sub> Oth	er	
Water Dispos			,		e ID MW-	5 S	ample Tir	ne <u>1345</u>		
Analysis	BTE			•		_	•			
			BD_			BD	Name/Tir	me		TB

Project No.: 30003.0 Project Nan	ne BR Groundwater S	ampling Client:_I	Burlington	
Location: :_Hampton 4M W	/ell No: <u>MW-7</u>	_ Development	<u>Sampling</u>	
Project ManagerMJN	Date3	3/15/04 Start Tir	ne <u>1410</u>	Weather_clear 40s
Depth to Water <u>20.20</u> Dep	oth to Product _na	Product Thickness: <u>na</u>	a Meas	suring PointTOC
Water Column Height <u>2.05</u> We	ell Dia2"			
Sampling Method: Submersible Pur	mp ☐ Centrifug	al Pump   Peristalt	ic Pump 🛚	Other
Bottom Valve Ba	niler D	ouble Check Valv⊟Bai	ler Stain	less-Steel Kemr⊡rer
Criteria: 3 to 5 Casing Volumes of			arameters <b>X</b>	Other_or bail_dry
		ume in Well		
Gal/ft x ft of water	Gallons	Ounces		Gal/oz to be removed
2.05 x 0.16	0.33			0.99
Time pH SC	Temp ORP	D.O. Turbidity	Vol Evac.	Comments/
(military) (su) (umhos/cm)	(°F) (millivolts		( gal)	Flow rate
1413 6.35 6080	63.4		0.125	Bailing dry
	<del>                                     </del>	_		
	<del>                                     </del>		<del> </del>	
			-	<del> </del>
	<del></del>	, , , , , , , , , , , , , , , , , , ,		
Final:		Ferrous		
Time         pH         SC         Temp           1415         6.05         6050         62.8	Eh-ORP D.O.	Turbidity Iron		Comments/Flow Rate
<u>1415</u> 6.05 6050 62.8			0.25	clear
COMMENTS: well bailing down				
	<u> </u>	·········		
INSTRUMENTATION: pH Meter		Tem	perature Mete	er <b>x</b>
DO Mo	onitor	Othe	er	
Conductivity Me	ter <b>X</b>			
Water Disposal onsite	Sample ID MW-7	Sample Time 1420		
BTEX VOCs		<del></del>		

Project No.:									Burlington Sampling	_
	•							•		Manthau alass 10s
Project Man										Weather clear 40s
•						Pro	bauct Ini	ckness: <u>    n</u>	a ivie	easuring PointTOC
Water Colun	nn Heigr	it _ 11.8	<u>87_</u> wei	1 Dia	_2"					
			<del></del>							
Sampling M	ethod: S	ubmer	sible Pun	ıb □	Centrifu	gal I	oump [	] Peristal	tic Pump [	] Other □
	В	ottom	Valve Ba	iler		Dou	ble Chec	k Valv⊟Ba	iler Sta	ainless-Steel Kemr⊡rer
Criteria: 3	to 5 Cas	ing Vo	lumes of '	Water Rem					Parameters	X Other_or bail_dry
0 - 1/4				0-11	Water Vo	olum	ie in Well			Oalfa Aalfa
	t ft of wa 7 x 0.16	ter	-	Gallons 1.94				Ounces		Gal/oz to be removed 5.81
11.0				1.54						J.01
Time	рН	T	SC	Temp	ORP		D.O.	Turbidity	/ Vol Eva	c. Comments/
(military)	(su)	1	hos/cm)	(°F)	(millivol		(mg/L)	(NTU)	( gal)	
1105	6.61	4	1790	60.3					1.0	clear
	6.64	4	4780	59.4					2.0	
	6.63	4	1730	59.0					3.0	
<u>1119</u>	6.70	4	1790	58.3					4.0	
1123	6.69	4	1650	58.8					5.0	
						_				
								·	<b>1</b>	
Final:								Ferrous		
Time pl		C	Temp	Eh-ORP	D.O.	Tu	rbidity	Iron	Vol Evac.	Comments/Flow Rate
1128	6.70	4670	58.3						6.0	clear
COMMENTS	S:								<del></del>	
11.075:11.07	\IT A T \ C :		1186 :		_					<del> </del>
INSTRUME	MIAHO	<b>N</b> :	pH Meter						nperature M	eter x
	,	Sameli	DO Mo					Oth	er	
M/-1- 5:-			ctivity Met		- ID 84047	<u>;                                    </u>		- 4400		
Water Dispo		<u>e</u>		Sample	י אואו טו פ	9 5	ample l'il	me <u>      1130</u>		
BTEX VO										
MS/MSD			BD_	<del></del>	<u> </u>	BD	Name/Ti	me		TB

Project No3	0.003		Proj	ect Name:	BR Grou	ndwater Sar	mpling _	Client:_Burl	ington
Location: Ha		М					elopment		
	-						•		. Moother clear 100
Project Man									Weather_clear 40s
,	-		-			Product Thi	ckness: <u> </u>	<u>a </u> Mea	asuring PointTOC
Water Colun	nn Heigh	t <u>15.4</u>	<u>19</u> _ Wel	I Dia	2"				
Sampling M	ethod: S	ubmer	sible Pum	ıp 🗆	Centrifug	al Pump	] Peristalt	tic Pump 🔲	Other
Bottom Valv	e Bailer	X		D	ouble Che	ck Valve Ba	iler 🗆	Stainless-St	teel Kemmerer 🛚
Criteria: 3	to 5 Casi	ng Vol	umes of \	Water Rem	oval <b>X</b> sta	abilization o	f Indicator P	arameters	X Other_or bail dry
C al/ft x	ft of wot			Callons	Water Vol	ume in Wel			Callaz to be removed
	ft of wat	<u>er</u>		Gallons			Ounces		Gal/oz to be removed
15.4	9 x 0.16			2.53					7.58
Time	рΗ	1	SC	Temp	ORP	D.O.	Turbidity	Vol Evad	
(military)	(su)	(umi	nos/cm)	(°F)	(millivolts	s) (mg/L)	(NTU)	( gal)	Flow rate
1437	7.33	3	870	62.3				1	clear
	6.87	3	680	58.7				2	
<u>1450</u>	6.78	3	610	56.7				3	
	7.15	3	580	55.9				4	
<u>1457</u>	6.91	3	580	55.5		-		5	
	6.86	3	540	55.6				6	
	6.8	3	3440	55.9				7	
		L .			<u></u>				
Final:		. ,	1		FS 1		Ferrous		, , , , , , , , , , , , , , , , , , , ,
Time pl	,   _	С	Temp	Eh-ORP	D.O.	Turbidity	Iron	Vol Evac.	Comments/Flow Rate
		3670	<b>55.5</b>	LII-OMP	D.O.	raibidity	11001	8.0	clear
''''   '			39.5		,			0.0	O Cul
		s 65 15	* 5 Y				a parterso	" 1 <sub>-1</sub> ,	
COMMENTS	2. Dumn	donlat	ing well						
COMMENTS	o. Fullip	debiel	ng wen						
LNOTSUBE	UTATIO:		-1.1.8.4						
INSTRUME	MIAIO	4: t	oH Meter	X				perature Me	eter <b>x</b>
			DO Mo	nitor			_ Othe	er	
	C	onduc	tivity Met	er <b>X</b>	<del>-}</del>		<b></b>		
Water Dispo	sal onsite	е	•	Sample	e ID MW-1	1 Sample 1	Гime 151(	)	)
BTEX VO		-		1	. •				
	<u>ی</u>		D.D.		-	)D Na 77'			
MS/MSD			BD_		t	BD Name/Ti	me		TB

Location:F Project Ma Depth to V Water Coli Sampling	lamptor unager Vater umn He Method	24. ight : Sul	MJN .26 11.8 bmers	Well Dep 31 Wel sible Pum	l Dia np □ ler	-12 Date ct _na _2" Centrifu	3/1 Progal I	Development Develo	elopment Start Ti ckness:n Peristal	Sa me_ na Itic F	mpling 1240 Mea Pump  Sta	Weatherclear 40s asuring PointTOC  Other □ inless-Steel Kemr□erer  X Other_or bail_dry
						Water V	olum	ıe in Well				
	x ft of .81 x 0.		r		Gallons 1.93				Ounces			Gal/ <b>oz</b> to be removed 5.78
Time (military)	pl (su	- 1		SC nos/cm)	Temp (°F)	ORP (millivo		D.O. (mg/L)	Turbidity (NTU)	<b>y</b>	Vol Evad ( gal)	c. Comments/ Flow rate
1240	3.9	)	4	510	61.5						0.5	Clear
1244	5.0	8	4	610	59.2						1.0	
1247	3.7	7	4	430	57.7						2.0	
	4.2	2	4	690	57.9						3.0	
1252	4.0	)	4	440	58.1						4.0	
Final: Time 1255	рН <b>4.12</b>	SC 44	; 180	Temp <b>58.1</b>	Eh-ORP	D.O.	Tu	rbidity	Ferrous Iron	Vo	Evac. 6.0	Comments/Flow Rate clear
COMMEN	TS:									-11		
Water Disp	oosal <u>o</u>	Сс	onduc	DH Meter DO Mo ctivity Met	nitor er <b>X</b>			·	Oth ime <u>125</u>	ier	rature Me	
MS/MSD_				BD_		<del></del>	BD	Name/Ti	me			TB

Project No <u>30</u> Location: Ha			-				Client: Be						
	•								Masthan alasm 40s				
Project Mana	-			the transfer					Weather_clear 40s				
	-					Product Ini	ckness: <u>na</u>	ivieas	suring PointTOC				
Water Colum	ın Heign	t <u>8.5</u> 4	<u>+</u> vvei	i Dia									
Sampling Me	ethod: Si	ubmer	sible Pun	ıb 🗌	Centrifug	gal Pump	] Peristaltic	Pump 🗌	Other				
Bottom Valve	e Bailer	Х		Double	Check Va	alve Bailer Î	Stainless	-Steel Kemm	nerer Î				
Criteria: 3 t	o 5 Casi	ng Vol	umes of	Water Rem				rameters X	Other <u>or bail dry</u>				
0 1/11				0 - 11	Water Vo	lume in Well			Callanta ha mana and				
	ft of wat x 0.16	er		Gallons 1.39			Ounces		Gal/oz to be removed 4.18				
6.54	X 0.10			1.33					4.10				
	<u>-</u>												
Time	рН		SC	Temp	ORP		Turbidity	Vol Evac.	Comments/				
(military)	(su)	(uml	hos/cm)	(°F)	(millivolt	s) (mg/L)	(NTU)	( gal)	Flow rate				
1022	4.98		5190	56.9				1.0	silty				
<u>1025</u>	4.72	5	5070	58.2				2.0					
	25     4.72     5070     58.2     2.0       4.57     5080     58.7     3.0												
1030	4.53	4	1880	58.8				4.0					
				_		_							
									İ				
	******												
Final:				entre de la companya			Ferrous						
Time pl			Temp	Eh-ORP	D.O.	Turbidity	Iron V		Comments/Flow Rate				
<u>1033</u> 4	.50 4	1860	58.8					5.0 s	ilty				
			N. 1						. <u>'</u>				
COMMENTS	<del></del>					·							
COMMINICIALC	·												
INSTRUMEN	NOITATION	J. ı	oH Meter	X		<del></del>	Temp	erature Mete	er x				
""		·· ,	DO Mo				O41						
	_	) Onduc	ctivity Met										
Water Dispo			•		 1D_M\\\\_1	I5 Sample 7	- Гіте <u> </u>						
l				Jampi	O 10 1010 0 2 1	o cample i	1000_	<del></del>					
BTEX VOC					,	DD Norman			TD				
MS/MSD			RD.			וו /name עם	me		TB				

Sampling Me	ampton ager  ater  nn Heig  ethod: { e Bailer	4M MJN 24.79 nt _6.8 Gubme	Well Dep 1 Wei	No: <u>MW</u> oth to Produ II Dia	V-16 Date uctna 4" Centrifue Double Ch	- 3/15/0 Produ gal Pur eck Va	Deve	elopment Start Tir ckness:na Peristalt	Sampling ne 1150 a Me ic Pump  Stainless-Si	Weather <u>clear 40s</u> easuring Point <u>TOC</u>
										outor_or ball ary
Gal/ft v	ft of wa	ıter		Gallons	Water Vo	lume ii	n Well	Ounces		Gal/oz to be removed
	1 x 0.65	uci		4.43				Ounces		13.28
Time (military)	pH (su)	(um	SC hos/cm)	Temp (°F)	ORP (millivolt		D.O. ng/L)	Turbidity (NTU)	Vol Eva ( gal)	
1150	5.54	4	1160	61.9					0.5	Heavy hydrocarbon odor
1153	4.3	1	1020	59.7					1.0	
<u>1155</u>	3.49		1190	58.6					2.0	
1157	2.94		1400 	57.5					4.0	
1201	2.04		1390	57.3					5.0	
1204	2.39	- '	1600	57.9					7.0	Bailing dry
		-								
Final: Time pH		SC 4730	Temp <b>56.9</b>	Eh-ORP	D.O.	Turbic	dity	Ferrous Iron	Vol Evac.	Comments/Flow Rate
1213		7/30	30.3						3.0	cical .
COMMENTS	S: well b	ailed d	ry							
INSTRUMEN	OITATIO	N:	pH Meter DO Mo					•	perature M	
		Conduc	olivity Met ctivity Met					Othe	er	
Water Dispo					e ID MW-1	6 Sar	nple T	ime <u> 1222</u>	<u></u>	
BTEX VOC					_	<b></b>	_			
MS/MSD		-	BD_			3D Nai	me/Tir	ne		TB

ACZ Labo	ratories, Inc.	4-5493	4	449	108°	110) 3/18/04		£	IAIN STO	100	
Report to:					7.06		e wise A				
Name: TREGO W	)01tz		Addre	ss: 3	40	E.	30	CIL	ST		
Company: Burlingi	UNI Res.	1	F	AKN	111161	100	(	974	99		
E-mail:		1	Telepi			50	5	320	69-	700	
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Name:			E-mai			• •	, Y <sub>2</sub> 2 1	क का इंट्र		A. 3 2.	1 P 42. 17 / N
Company:		1	Telepl								
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Invoice to:							, ,,,,,,,		20 1		
Name: SAME AS	ABIVE		Addre	SS.	<u> </u>			· =	76		
Company:			· ·				+	)  <u> </u>	<i>" /</i>	<i>/_</i> _	-
E-mail:	w Alma (LIT) on 16 in a set of the	<u>.</u>	Telepi		lete	$\smile$		4	VEA	ļ	I
If sample(s) received past holdin analysis before expiration, shall									YES NO		
If "NO" then ACZ will contact clie									[	لـــــــــــــــــــــــــــــــــــــ	
is indicated, ACZ will proceed wi										·	
PROJECT INFORMATION 🔧			, ANA	LYSES	REQUE	STED	attach	list or u	se que	të num	ber)
Quote #:		.									
Project/PO#: 1\15 C > C	W Soumpling		ers			i					
Shipping Co.:	·.J		Containers								
Tracking #:			Cont				1	· .			
Reporting state for compliance	testing:		of								
Are any samples NRC licensab			*	1,7							
SAMPLE IDENTIFICATION	DATE:TIME	Matrix									
MARLOTE MUV-2	3-15-04 0835	SE28		2							
HAMPTON MW-1	3-15-04 0958	GW		2							
HAMPTON MW-15	3-15-04 1038	GW		2						:	
HAMPTON MW-9	3-15-04 1130	GW		2							
HAMPTON MW-16	3-15-04 1222	GW		2							
HAMOTON MIN-12	4	GW		2							
HAMPTON SEEP	3-15-04 1312	GW		て							
HAMPOTON MW-5	3.15-04 1345	9w		2							
FAMPTON MW-7	3-15-04 1420	ĠW	·	2							
HAMPTON MW-11	3-15-04 1510	Gw		2	L						
	(Ground Water) · WW (Waste \	Vater) · D\	V (Drinki	ing Water	r) · SL (S	ludge) · :	SO (Soil)	· OL (OI	) · Other	(Specify	()
REMARKS			.g	28. A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	36.	10 000	A		va s	
Please provid	e a squera	t e	ر ج م	20.00	<i>t</i> ,	0	12/	di			
location, Ha	mptoN, Mu	RC U	TE	, C.C	722	U. Eni	5,.F	ior	u V	, 5 (-)	i~
DELINOUS DE		inas		n mid v		** A P 1	The second		سا العلوجية	Carlosses 2	
RELINQUISHED BY	STATE OF THE PARTY			REC	EIVE	ӯВү∴		ĎΑ	TE;TII	VIE -	Page
DIE (NE	=) 3-16-04	0945		. (	JW)			3/17/	34 1	000	
			<u> </u>					-			Of
			ļ					L449	80: Pa	ge 15	of 15 🖺

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



March 31, 2004

Gregg Wurtz
Burlington Resources, Inc.
2401 F. 30th St. PO ROX 4389

3401 E. 30th St. PO BOX 4289 Farmington, NM 87402-4289

Project ID: MISC. GW SAMPLING

ACZ Project ID: L44980

Gregg Wurtz:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 17, 2004. This project has been assigned to ACZ's project number, L44980. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan, version 10.0. The enclosed results relate only to the samples received under L44980. 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 30, 2004. 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.

31/Mar/04

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





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

**Burlington Resources, Inc.** 

Analysis Method:

Extract Method:

Project ID:

MISC. GW SAMPLING

Sample ID:

**HAMPTON MW-1** 

ACZ Sample ID:

L44980-01

Date Sampled:

03/15/04 9:58

Date Received:

03/17/04

Sample Matrix:

Ground Water

Benzene Tolvene Ethylbenzene & Xylene

Method

M8021B GC/PID

Analyst: jj

Extract Date: 03/26/04 15:11

Analysis Date:

03/26/04 15:11

Dilution Factor:

Compound

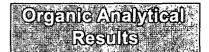
( <b>0)</b> ( <b>0)</b> (5)	Robult - Mark XO	(* eum)	Mor	GGR.
000071-43-2	U *	ug/L	0.3	1
000100-41-4	U	ug/L	0.2	1
01330 20 7	U	ug/L	0.4	2
00095-47- 6	U	ug/L	0.2	1
000108-88-3	U	ug/L	0.2	1
	000071-43-2 000100-41-4 01330 20 7 00095-47- 6	000071-43-2 U * 000100-41-4 U 01330 20 7 U 00095-47- 6 U	000071-43-2       U * ug/L         000100-41-4       U ug/L         01330 20 7       U ug/L         00095-47-6       U ug/L	000071-43-2       U       * ug/L       0.3         000100-41-4       U       ug/L       0.2         01330 20 7       U       ug/L       0.4         00095-47-6       U       ug/L       0.2

Surrogate Recoveries

Surogate	<b>(2)</b>	. %Recovery(	e vo Ualis	TROP	OOL
Bromofluorobenzene	000460-00-4	07.2	0/_	83	117

## ALZ Laboratories, Inc.

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



Burlington Resources, Inc.

Analysis Method:

Extract Method:

MISC. GW SAMPLING

Sample ID: HAM

HAMPTON SEEP

ACZ Sample ID: L44980-06

Date Sampled: 03/15/04 13:12

Date Received: 03/17/04

Sample Matrix: Ground Water

Benzana, Toluaia, Blivlanzana &Xylana

Method

M8021B GC/PID

Analyst: jj

Extract Date: 03/26/04 20:11

Analysis Date:

03/26/04 20:11

Dilution Factor: 1

Compound

Project ID:

Compound :	GOOD TO	CEUM COUNTRY XO	Out to	a, MDG	FOF.
Benzene	000071-43-2	U *	ug/L	0.3	1
Ethylbenzene	000100-41-4	U	ug/L	0.2	1
m p Xylene	01330 20 7	U	ug/L	0.4	2
o Xylene	00095-47- 6	U	ug/L	0.2	1
Toluene	000108-88-3	U	ug/L	0.2	1

Surrogate Recoveries

Surgere	<b>048</b>	%Receivery	्राष्ट्र धनाव	Arer.	<u>ner</u>
Bromofluorobenzene	000460-00-4	98.6	%	83	117

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

Burlington Resources, Inc.

Analysis Method:

Extract Method:

MISC. GW SAMPLING Project ID:

Sample ID:

**HAMPTON MW-5** 

ACZ Sample ID: L44980-07

Date Sampled: 03/15/04 13:45

Date Received: 03/17/04

Sample Matrix: Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Method

M8021B GC/PID

Analyst: jj

Extract Date: 03/26/04 20:53 Analysis Date: 03/26/04 20:53

Dilution Factor: 100

Compound

Compound	GAS .	Goodle (a Co	UAL X00 IV	ethi	Mor.	POL
Benzene	000071-43-2	1370	* u	ıg/L	30	100
Ethylbenzene	000100-41-4	660	ŧ	ıg/L	20	100
m p Xylene	01330 20 7	7020	ι	ıg/L	40	200
o Xylene	00095-47- 6	1690	ι	ıg/L	20	100
Toluene	000108-88-3	8100	ι	ıg/L	20	100

Swice 19	<b>WAS</b>	%Recovery	edity ex	WEGE.	ngr
Bromofluorobenzene	000460-00-4	101	%	83	117

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

**Burlington Resources, Inc.** 

Analysis Method:

Extract Method:

Project ID:

MISC. GW SAMPLING

Sample ID:

**HAMPTON MW-7** 

ACZ Sample ID:

L44980-08

Date Sampled:

03/15/04 14:20

Date Received:

03/17/04

Sample Matrix:

Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Method

M8021B GC/PID

Analyst:

km

Extract Date:

03/29/04 17:07

Analysis Date:

03/29/04 17:07

Dilution Factor:

Compound

Compound	<b>@XS</b>	a Redi	െയുട	रखे प्रमुख	Mor	POL
Benzene	000071-43-2	56		ug/L	2	5
Ethylbenzene	000100-41-4	6		ug/L	1	5
m p Xylene	01330 20 7		U	ug/L	2	10
o Xylene	00095-47-16	3	J	ug/L	1	5
Toluene	000108-88-3	1	J	ug/L	1	5

Surrogate Recoveries

Bromofluorobenzene

000460-00-4

103.5

83

117

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

### Organic Analydical: Results

Burlington Resources, Inc.

Analysis Method:

MISC. GW SAMPLING

Project ID: Sample ID:

**HAMPTON MW-9** 

ACZ Sample ID: L44980-03

Date Sampled: 03/15/04 11:30

Date Received: 03/17/04

Sample Matrix: Ground Water

Benzene, Tolvene, Ethylbenzene & Xylene

M8021B GC/PID

Analyst: jj

Extract Date: 03/26/04 17:19

Analysis Date:

03/26/04 17:19

Extract Method: Method Dilution Factor:

Compound

Compound	CAS	COUNT NO	<b>Talle</b>	: Mol	FOR.
Benzene	000071-43-2	U *	ug/L	0.3	1
Ethylbenzene	000100-41-4	U	ug/L	0.2	1
m ρ Xylene	01330 20 7	U	ug/L	0.4	2
o Xylene	00095-47- 6	U	ug/L	0.2	1
Toluene	000108-88-3	U	ug/L	0.2	1 .

Surrogate	<b>.04</b> 49	· MRCcovery	Ale Valle	Ter	OGF.
Bromofluorobenzene	000460-00-4	97.8	%	83	117

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

**Burlington Resources, Inc.** 

Analysis Method:

Extract Method:

Project ID:

MISC. GW SAMPLING

Sample ID:

**HAMPTON MW-11** 

ACZ Sample ID:

L44980-09

Date Sampled:

03/15/04 15:10

Date Received:

03/17/04

Sample Matrix:

Ground Water

Benzene, Toluene, Ethylbenzene & Xylene.

Method

M8021B GC/PID

Analyst: jj

Extract Date:

03/26/04 22:20

Analysis Date:

03/26/04 22:20

Dilution Factor:

Compound

Gompound:	CAS RESUL	es - Grat ea	aliju), E	Mel	: FOF
Benzene	000071-43-2	U *	ug/L	0.3	1
Ethylbenzene	000100-41-4	U	ug/L	0.2	1
m p Xylene	01330 20 7	U	ug/L	0.4	2
o Xylene	00095-47- 6	U	ug/L	0.2	1
Toluene	000108-88-3	U	ug/L	0.2	1

amotere.	<b>9</b> 29	%Recovery	and our	ି (ସେମ୍	ner
Bromofluorobenzene	000460-00-4	96.1	%	83	117

# Laboratories, Inc.

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

Burlington Resources, Inc.

Analysis Method:

Extract Method:

Project ID:

MISC. GW SAMPLING

Sample ID:

**HAMPTON MW-12** 

ACZ Sample ID: L44980-05

Date Sampled: 03/15/04 12:58

Date Received: 03/17/04

Sample Matrix: Ground Water

Benzene, Toluene, Ethylbenzene & Xylene,

Method

M8021B GC/PID

Analyst: jj

Extract Date:

03/26/04 18:45 03/26/04 18:45

Analysis Date:

Dilution Factor: 50

Compound

(Compound)	<b>9</b> ,0	Results :	न्यातः स्टब्स्	MDP.	अस्कृ
Benzene	000071-43-2	2090	* ug/L	20	50
Ethylbenzene	000100-41-4	300	ug/L	10	50
m p Xylene	01330 20 7	1050	ug/L	20	100
o Xylene	00095-47- 6	200	ug/L	10	50
Toluene	000108-88-3	1120	ug/L	10	50

Surrogate Recoveries

Bromofluorobenzene

000460-00-4

108.9

83 117

REPOR.01.01.01.02

\* Please refer to Extended Qualifier Report for details.

L44980: Page 6 of 15



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

Organic Analytical Results

Burlington Resources, Inc.

Project ID:

MISC. GW SAMPLING

Sample ID:

**HAMPTON MW-15** 

ACZ Sample ID:

L44980-02

Date Sampled:

03/15/04 10:38

Date Received:

03/17/04

Sample Matrix:

Ground Water

Benzene Toluene Ethylbenzene & Xylene

Analysis Method:

M8021B GC/PID

Extract Method:

Method

Analyst: jj

Extract Date:

03/26/04 16:36

Analysis Date:

03/26/04 16:36

Dilution Factor: 1

Compound

<u> </u>	G.B.	Results OUAL	ල වැඩිය	Mide	્હા
Benzene	000071-43-2	U	* ug/L	0.3	1
Ethylbenzene	000100-41-4	U	ug/L	0.2	1
m p Xylene	01330 20 7	U	ug/L	0.4	2
o Xylene	00095-47- 6	U	ug/L	0.2	1
Toluene	000108-88-3	0.3 J	ug/L	0.2	1

Suriogate	CAS //	Recovery 200		MOP -	- Der
Bromofluorobenzene	000460-00-4	95.8	%	83	117

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

**Burlington Resources, Inc.** 

Analysis Method:

Extract Method:

Project ID:

MISC. GW SAMPLING

Sample ID:

**HAMPTON MW-16** 

ACZ Sample ID:

L44980-04

Date Sampled:

03/15/04 12:22

Date Received:

03/17/04

Sample Matrix:

Ground Water

Benzene, Toltiene, Ethylbenzene & Xylene

Method

M8021B GC/PID

Analyst:

Extract Date:

03/26/04 18:02

Analysis Date:

03/26/04 18:02

Dilution Factor: 100

Compound

Compound					
Gompound	·@AS	Repu		TIPL.	≥ GOT
Benzene	000071-43-2	9200	* ug/L	30	100
Ethylbenzene	000100-41-4	1310	ug/L	20	100
m p Xylene	01330 20 7	9810	ug/L	40	200
o Xylene	00095-47- 6	2190	ug/L	20	100
Toluene	000108-88-3	16000	ug/L	20	100
Surrogate Recoveries					

Suriounte	: @AS	%Georgia	eithd Ox	"F@F"	@GL
Bromofluorobenzene	000460-00-4	99.6	%	83	117

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

Ro	port Header	nExplanations 4		<b>有,数据,这个,这个,这个,这个不是</b>									
	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)											
	LCL	Lower Control Limit											
	MDL	Method Detection Limit. Same as Minimum Reporting L	imit. Allows for	instrument and annual fluctuations.									
	PCN/SCN	A number assigned to reagents/standards to trace to the	e manufacturer's	s certificate of analysis									
	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 LC	SS, mg/Kg)									
	RPD	Relative Percent Difference, calculation used for Duplica	ate QC Types										
	Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)											
	UCL	Upper Control Limit											
	Sample	Value of the Sample of interest											
66	Sample Ty	pes	1.14.5										
	SURR	Surrogate	LFM	Laboratory Fortified Matrix									
	INTS	Internal Standard	LFMD	Laboratory Fortified Matrix Duplicate									
	DUP	Sample Duplicate	LRB	Laboratory Reagent Blank									
	LCSS	Laboratory Control Sample - Soil MS/MSD Matrix Spike/Matrix Spike Duplicate											
	LCSW	Laboratory Control Sample - Water	PBS	Prep Blank - Soil									
-	LFB	Laboratory Fortified Blank	PBW	Prep Blank - Water									
<u>@</u>	Sample Ty	pe Explinations		。在1965年,1965年,1965年,1965年,1965年,1965年,1965年,1965年,1965年,1965年,1965年,1965年,1965年,1965年,1965年,1965年,1965年,1965年									
	Blanks	Verifies that there is no or minir	mal contamination	on in the prep method procedure.									
	Control Sar												
	Duplicates												
720212	CA. SACTOR CONTRACTOR OF THE SECOND	tified Matrix Determines sample matrix inter	ferences, if any										
470		S(Qual)											
	В	Analyte detected in daily blank											
	H	Analysis exceeded method hold time.											
	J	Analyte concentration detected at a value between MDL											
	Ŗ	Poor spike recovery accepted because the other spike in											
	T	High Relative Percent Difference (RPD) accepted becau	•	entrations are less than 10x the MDL.									
	U	Analyte was analyzed for but not detected at the indicate		h. H. a. blad. amanda-Can									
	V W	High blank data accepted because sample concentration	ŭ										
	X	Poor recovery for Silver quality control is accepted becau Quality contreol sample is out of control.	use Silver Oiteri	precipitates with Chloride.									
	Z	Poor spike recovery is accepted because sample concer	ntration is four ti	imas greater than spike concentration									
	P	Analyte concentration differs from second detector by m		ines greater than spike concentration.									
	E	Analyte concentration is estimated due to result exceedi		nnae									
	M	Analyte concentration is estimated due to result exceeds  Analyte concentration is estimated due to matrix interferences.	•	ilige.									
THE		Arrayte concentration is estimated due to matrix interest	onoco,										
<u> </u>	(1)	EPA 600/4-83-020. Methods for Chemical Analysis of W	Vater and Waste	es. March 1983									
	(2)	EPA 600/4-90/020. Methods for the Determination of Or											
	( <del>-</del> )	E. 7. 3507 - 507525. Mothed for the Dotoffiniation of Of	anno compour	as in Stilling trater (1), only 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

- QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations. (1)
- (2) Organic analyses are reported on an "as received" basis.

REPIN03.11.00.01

L44980: Page 11 of 15

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



**Burlington Resources, Inc.** 

ACZ Project ID: L44980

(PZID)	Workstow.	PARAMETER # 1	METHOD SEE A SE	- Agual	DESCRIPTION C
L44980-01	WG169653	Benzene	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.
L44980-02	WG169653	Benzene	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.
L44980-03	WG169653	Benzene	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.
L44980-04	WG169653	Benzene	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.
L44980-05	WG169653	Benzene	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.
L44980-06	WG169653	Benzene	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.
L44980-07	WG169653	Benzene	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.
L44980-09	WG169653	Benzene	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.

EXTQUAL.11.20.02.01

L44980: Page 12 of 15



**Sample** Recelpt

Burlington Resources, Inc.

MISC. GW SAMPLING

ACZ Project ID: L44980
Date Received: 3/17/2004
Received By: coryd

#### Receive Wartierilon

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

YES	ИО	NA
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		A hard his horizontal harden but		

N/A

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

N/A

#### Shipping Contilions

Cooler Id	1	Temp (°C)	Rad (µR/hr)
ACZ		0.4	12
ļ ——-	+		
i			l

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

Notes --



Burlington Resources, Inc.

MISC. GW SAMPLING

ACZ Project ID:

L44980

coryd

Date Received:

3/17/2004

Received By:

			A-11 5 0 4 6 4 1 5 1						37 (A) A X A X	13.391		ALC: NO.
SAMPLE	CLIENT ID	R < 2	G < 2	Y < 2	YG< 2	B < 2	BG< 2	0 < 2	T >12	P >12	N/A	RAD
L44980-01	HAMPTON MW-1										Ö	
L44980-02	HAMPTON MW-15										Ö	
L44980-03	HAMPTON MW-9										Ö	
L44980-04	HAMPTON MW-16										Ö	
L44980-05	HAMPTON MW-12										Ö	
L44980-06	HAMPTON MW-SEEP										Ö	
L44980-07	HAMPTON MW-5										Ö	
L44980-08	HAMPTON MW-7										Ö	
L44980-09	HAMPTON MW-11										Ö	

Sample Container Preservation

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
В	Filtered/Sulfuric	BLUE	pH must be < 2
BG	Filtered/Sulfuric	BLUE GLASS	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
0	Raw/Sulfuric	ORANGE	pH must be < 2
Р	Raw/NaOH	PURPLE	pH must be > 12
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Υ	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 $\mu$ R/hr

Project No.:30003.0 Project Name: Groundwater sampling Client: Burlington Resources  Location: Hampton 4M Well No: Seep Development Sampling  Project Manager MJN Date 6/21/04 Start Time 1145 Weather sunny 80s												
Depth to W Water Colu	_		-			uct <sup>-</sup>	Thicknes	s <u>na</u>	Measurin	g Poin	t <u>TOC</u>	
Sampling Method: Submersible Pump												
Bottom Valve Bailer <b>x</b> Double Check Valve Bailer □ Stainless-Steel Kemmerer □												
Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other_or bail dry												
	Water Volume in Well											
Gal/ft	x ft of wat	ter		Gallons				Ounces		G	al/oz to be removed	
Time (military)	pH (su)		SC hos/cm)	Temp (°F)	ORP (millivol		D.O. (mg/L)	Turbidity (NTU)	/ Vol Ev		Comments/ Flow rate	
						4			_			
				-								
	<del> </del>											
<u></u>												
									_			
							· · · _ · .					
Cinal:						I	· · · ·	Ferrous				
Final:	н ѕ	C	Temp	Eh-ORP	D.O.	Tu	rbidity	Iron	Vol Evac	Cor	mments/Flow Rate	
<u>1145</u>				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
				. <u>347 4.</u>	laste a		,e · ·	o ba a area	e E section			
COMMENT	S: seep v	vater v	was clear	, collected (	grab sam	ple						
INSTRUME	IOITATM:	N:	oH Meter	X				Tem	perature	Meter	x	
			DO Mo				•	Oth	er	<del></del>	_	
Water Dies			ctivity Met		4M Soon			C^	mala Tima		ıc	
Water Disp Analysis	osaı <u>_ons</u> <u>BTF</u>		oampie IL	<u>Hampton</u>	4IVI Seep	<u>'</u>		Sa	mple Time	:114	ю	
MS/MSD_			BD_			BD I	Name/Tir	ne			TB	

Project No.:30003.0 Project Name: Groundwater sampling Client: Burlington Resources  Location: Hampton 4M Well No: TMW-1 Development Sampling  Project Manager MJN Date 6/21/04 Start Time 1215 Weather cloudy 80s  Depth to Water 18.85 Depth to Product na Product Thickness na Measuring Point TOC  Water Column Height 0.75 Well Dia. 2"											
Sampling Method: Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Other ☐											
Bottom Valve Bailer x Double Check Valve Bailer □ Stainless-Steel Kemmerer □											
Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other_or bail dry											
			· · ·		Water V	olum	e in Well				
Gal/ft x	ft of wat	er	\	Gallons				Ounces			Gal/oz to be removed
	5 x 16			.12							.36
			1		··				<del></del>		
Time	pН		SC	Temp	ORP		D.O.	Turbidity	, V	ol Eva	c. Comments/
(military)	(su)	1	hos/cm)	(°F)	(millivo		(mg/L)	(NTU)		(gal)	Flow rate
1215	5.35	3	3130	72.4						0.09	clear
1217	5.60	2	2860	71.0						0.13	well has bailed down
				•		···					
								_			
· <u> </u>											
	<del></del>										
		<del> </del>									
		<u> </u>									
					ı						
	l			<u> </u>	I		<u> </u>				
Final:					, -			Ferrous	45	٠.	
Time ph	1 s	С	Temp	Eh-ORP	D.O.	Tu	rbidity	Iron	Vol E	Evac.	Comments/Flow Rate
<u>1217</u> 5	.60 2	2860	71.0						0.	13	well has bailed down
			1								
COMMENTS	5:							_			
INSTRUMEN	NTATION	J: 1	pH Meter	X	· · · · · · · · · · · · · · · · · · ·			Ten	npera	ture Me	eter <b>x</b>
			DO Mo					Oth	•		
	,	Conduc	ctivity Met					_ 0111			
Motor Diama			Sample ID				Com-	- Io Timo - 1	1220		
Water Dispo			Jampie IL	_iid			Samp	le Time1	<u> </u>		
Analysis	BTE					D					TD
MS/MSD			RD_			RD	Name/Tir	me			TB

Project No.:		Pro	oject Nam	ne <u>BR Grou</u>	ndwater S	ampling	_ Client:_	Burlington	_	
Location: :_F	Hamptor	4M	_	Well N	o:MW-	1	Develo	pment <u><b>Sa</b></u>	mpling	
Project Mana	ager	_MJN			Date6	6/21/04	Start Ti	me0840_	Weather_ <u>clear 70s</u>	
	_				ict _na	Product Thi	ckness:r	a Me	easuring PointTOC	
•						•			<u> </u>	
Water Column Height 6.09 Well Dia. 2"										
Sampling Method: Submersible Pump										
Bottom Valve Bailer Double Check Valv  ☐Bailer Stainless-Steel Kemr ☐erer										
Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other_or bail_dry										
					Water Vol	ume in Wel				
	ft of wa	ter		Gallons			Ounces		Gal/oz to be removed	
6.09	x 0.16			0.99					2.98	
L			<u> </u>							
Time	nU		SC	Tomp	ORP	D.O.	Turbidity	/ Vol Eva	ac. Comments/	
(military)	pH (su)	1	hos/cm)	Temp (°F)	(millivolts	1	Turbidity (NTU)	( gal)	1	
	<u>``</u>	<u> </u>			(11111111111111111111111111111111111111	(1119/2)	(1110)			
0840	4.5		1440	61.0				0.25		
	4.22	'	1480	57.8				0.5	cloudy	
	4.16	1	1510	56.8				0.75		
	4.15		1480	56.8				2	cloudy	
	4.11		1620	56.6				2.25		
	4.10		1620	56.3				2.5	cloudy	
	4.11		1630	56.4				2.75		
<u>0857</u>	4.10	1	1620	56.2				3.0	cloudy	
		<u> </u>								
Final:	· ·						Ferrous		* .	
Time ph		C .	Temp	Eh-ORP	D.O.	Turbidity	Iron	Vol Evac.	Comments/Flow Rate	
<u>0857</u> 4	.10	1620	56.2					3.0	cloudy	
			politica de la composição de la composiç	. 1.				1 1,3		
COMMENTS	B:									
INSTRUMEN	NTATIO	Λ: t	oH Meter	X				nperature M	eter <b>x</b>	
		S 1	DO Mo				_ Oth	er		
			ctivity Met				<u> </u>			
Water Dispos		е		Sample	e ID <u>MW-1</u>	Sample '	Time <u>090</u>	00		
Analysis BTEX										
MS/MSD BD BD Name/Time TB										

· •	Project No.: 30003.0 Project Name: BR Groundwater Sampling Client: Burlington  Location: :_Hampton 4M Well No: MW-5 Development Sampling											
Project Man	•							_	Weather_clear 70s			
1 -	-								asuring PointTOC			
Water Colun						Toduct TIII	CK116331	ia ivic	2341119 1 01111100			
water Colum	ılırı Melgi	II <u>0.7</u>	<u>-</u>	II Dia								
0 1 1 1	- All. C		anible Dia		Contribute	- I D 5	. Di4-		Other 57			
Sampling IVI	einoa: S	ubmei	rsible Pur	ub□	Centinuga	ai Pump L	] Pensia	ilic Pump [	] Other 🗆			
	E	ottom	Valve Ba	iler	D	ouble Che	ck Valv⊟Ba	iler Sta	ninless-Steel Kemr⊡rer			
Criteria: 3	Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other_or bail_dry											
	Water Volume in Well  College											
	Gal/ft x ft of water Gallons Ounces Gal/ <b>oz</b> to be removed 6.71 x 0.16 1.10 3.30											
6.7	I X U.16			1.10					3.30			
			1			L						
Time	рН		SC	Temp	ORP	D.O.	Turbidity	/ Vol Eva	c. Comments/			
(military)	(su)	(um	hos/cm)	(°F)	(millivolts	1	1	( gal)	Flow rate			
1152	3.71	;	3070	72.3				0.25	black			
	1.17	-	2230	65.3		_		0.5				
	1.0		2150	64.2	<u>-</u>			0.75				
	0.95	1	2170	63.8				1.0	well is bailing down			
	0.96		2170	62.7				2				
1203	1.11		2160	62.3		-		2.25				
	<u> </u>											
						-						
<u> </u>												
Final:	.					,	Ferrous					
Time pl		<u>C</u>	Temp	Eh-ORP	D.O. 1	Γurbidity	Iron	Vol Evac.	Comments/Flow Rate			
<u>1203</u> 1	.11	2160	62.3					2.25				
		<u> </u>	1.			<u> </u>	a d					
COMMENT	2. woll b	nilina a	lown		<del></del>	<del></del>						
COMMENTS	s. well b	aning c	IOWII									
INICTOLINATIO	UT ATIO	\t. ·	nLI Mata:				<b>T</b>	navoti i RA	1			
INSTRUMEN	VIATIO	N:	pH Meter					nperature Me	eter <b>x</b>			
			DO Mo		<del></del>		_ Oth	er				
			ctivity Met				_					
Water Dispo	sal <u>onsit</u>	<u>e</u>		Sample	e ID <u>MW-5</u>	Sample Ti	me <u>      1205</u>					
Analysis	BTI	$\mathbf{E}\mathbf{X}$										
MS/MSD			BD_		Ві	D Name/Ti	me		TB			

Location: Project Ma Depth to V Water Col	Hampt Inager Vater _ umn H	on 4	MJN 9.70 t _0.5	Web Dep Web	II No:M\bth to Produ	N-7	Development Develo	elopment Start T ckness: <u>r</u>	na _ Me	Weatherclear 80s asuring PointTOC
Sampling I	Method	d: S	ubmer	sible Pùn	ub 🗀	Centrifuga	al Pump [	] Perista	ltic Pump □	Other
		В	ottom	Valve Bai	iler	D	ouble Ched	ck Valv⊡Ba	ailer Sta	inless-Steel Kemr⊡rer
Criteria:	3 to 5 (	Casi	ng Vol	umes of \	Water Rem	oval X sta	bilization o	f Indicator I	Parameters	X Other <u>or bail dry</u>
						Water Volu	ıme in Wel			
	x ft of		er		Gallons			Ounces		Gal/oz to be removed
2.	05 x 0	. 16			0.08					30.72
Time (military)		H u)	1	SC hos/cm)	Temp (°F)	ORP (millivolts	D.O. (mg/L)	Turbidit (NTU)	y Vol Evad	c. Comments/ Flow rate
1237	4.	27	2	2450	70.1				12	clear
	3.	06	2	2380	62.3				16	
	2.	42	2	2390	59.9		<u> </u>		24	
1242	2.	61	2	2760	61.3				30	well has bailed dry
		<del></del>								
			<u> </u>					1		
Final:	, Hq	6	С	Temp	Eh-ORP	D.O. 1	Furbidity	Ferrous Iron	Vol Evac.	Comments/Flow Rate
1242	2.61	_	2760	61.3	EII-ORF	D.O.	urbidity	iion	30	well has bailed dry
	_			l		<u> </u>				
COMMEN	TS: we	ell ba	ailing d	<u>io</u> wn	_		<del>-</del>	···		
INSTRUM		C	Conduc	oH Meter DO Mo ctivity Met	er X			_ Oth -		eter x
Water Disp	_			<del></del>	Sample	e ID <u>MW-7</u>	Sample Ti	me <u>      1247</u>	<u></u>	
Analysis MS/MSD_	_	BTE	LX.	BD_		RI	D Name/Ti	me		ТВ
1410/1410D_				_ںں_			- Haille/ 11			' <sup>_</sup>

Project No.:_ Location: :_h Project Mana Depth to Wa Water Colum	Hampton ager ter2	4M MJN 2.72	Dep	ell No:M  th to Produ	1W-9 Date ct _na	_ <u>6/2</u> -	Deve 1/04	elopment Start T	<u>Sa</u> ime	1105	Weather_ <u>clear 70s</u> suring Point <u>TOC</u>
Sampling Me	ethod: S	ubmer	sible Pun	np 🗆	Centrifug	 jal F	oump 🗆	Perista	ltic	Pump 🛚	Other 🗆
	В	ottom '	Valve Bai	ler	[	Эou	ble Chec	k Valv⊟Ba	ailer	Stair	nless-Steel Kemr⊡rer
Criteria: 3 t	o 5 Casi	ng Vol	umes of \	Nater Rem	oval <b>X</b> st	abil	ization of	Indicator I	Para	ameters )	Other_or bail_dry
	Water Volume in Well										
Gal/ft x	ft of wat	er		Gallons	vvaler vo	T	ic iii vven	Ounces			Gal/oz to be removed
	3 x 0.16			1.93	<del>-</del>	+					5.79
Time (military)	pH (su)	l	SC nos/cm)	Temp (°F)	ORP (millivolt		D.O. (mg/L)	Turbidit (NTU)	- 1	Vol Evac ( gal)	. Comments/ Flow rate
0953	6.62	2	180	66.5						0.25	clear
	6.10		2100	62.8						0.5	clear
	6.29	<u></u>	2080	60.6						0.75	cloudy
	6.06		2040	59.6						2	cloudy
	6.12		2040	60.1						3	cloudy
	6.06		2070	59.9			ļ			4	cloudy
	6.02		2080	60.1						5	cloudy
	6.08	2	2060	60.1						5.5	cloudy
	6.09		2070	60.1						5.75	cloudy
<u>1012</u>	6.04	2	2060	60.3						6.0	cloudy
Final:				·		_	- 1	Ferrous			
Time p⊦ 1012 6		C 2060	Temp <b>60.3</b>	Eh-ORP	D.O.	<u> 1 u</u>	rbidity	Iron	V		Comments/Flow Rate
1012	.04	2000	00.3							0.0	Cioudy
<u> </u>		· · · · · · · · · · · · · · · · · · ·	<u> </u>	<u> </u>							
COMMENTS	3:										
INSTRUMEN	NTATION	· ·	oH Meter	X		<del></del>		Tor	nnc	rature Me	ter <b>v</b>
,, to i i tolvici	.,,,,,	•• )	DO Moi					Oth	•	TALGIO IVIC	
	_	\l					-	_ 00	ıeı		
144-1 - D1			tivity Met		- 10 1444			-			
Water Dispo		<u>e</u>	<del></del>	Sample	9 ID <u>MW-9</u>	<u>,</u> S	ample l'ir	ne <u>101</u> 4	+		
•	<u>BTEX</u>										
MS/MSD	S/MSDBDBD Name/TimeTB										

Project No Location:					ect Name: I No:M\					Client: Bu		on
		•							•	•		Mosther clear 90s
Project M	_	_			th to Brodu							Weather clear 80s
							PIC	buuct Thic	knessn	<u>a</u> _ IVI	easun	ing PointTOC
water Co	lumm	ı neig	III <u>15.</u>	<u>49</u> _ vvei	l Dia							
Sampling	Meti	hod:	Subme	rsible Pun	1p 🗌	Centrifu	gal f	Pump 🗆	Perista	ltic Pump(		Other
Bottom V	alve	Baile	X		D	ouble Che	eck '	Valve Bai	ler 🗆	Stainless-	Steel I	Kemmerer $\square$
Criteria:	Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other_or bail_dry											
Gal/ft x ft of water Gallons Ounces Gal/oz to be removed												
						al/oz to be removed 7.58						
7.56						7.50						
										·	_	
Time (military)	,	pH (su)	(um	SC hos/cm)	Temp (°F)	ORP (millivol		D.O. (mg/L)	Turbidity (NTU)	/ Vol Ev ( gal	. 1	Comments/ Flow rate
1255		5.74		1591	68.6			_		.25	(	clear
		5.31		1490	64.2					.5		clear
		5.22		1490	62.5					.75		clear
		5.94		1520	63					2	- 0	clear 
		5.68		1470	63					3		clear
		5.86		1500	64					4		clear
		5.92		1610	63.7					6		clear
		5.40		1590	63.5					7	(	clear
		5.41		1590	63.1					7.25		clear
1325		5.40		1560	63.1					7.5	(	clear
				T				· · · · · · · · · · · · · · · · · · ·	Ferrous			
Final:	рН		sc	Temp	Eh-ORP	D.O.	т.,	rbidity	Iron	Vol Evac.	Cor	mments/Flow Rate
1325	<u>5.4</u>		1560	63.1	EII-ONF	D.O.	·	irbidity	, ITOH	7.5	clea	
									٠.			
COMMEN	<u> 1TS:</u>	Pum	o deple	ting well	<del></del>							
INSTRUM	/ENIT	ΓΔΤΙΛ		pH Meter	X				Ton	nperature N	Motor	<u> </u>
אטחופאוו	n⊏IN !	יאווע	ZIN.	pri Meter DO Mo					Oth		viciei	^
			Condu	ctivity Met					. Oir	ICI		_
Water Dis	noo'	al one		cavity Met			11 (	Sample T	ime 132	7		
1	pusi		EX		Janiph	- ואואו חו		cample 1	132			٠,
Analysis				DD			חם	Nome/Ti-	<b>n</b> 0			TD
MS/MSD				"מס		<u></u>	טט	name/Tif	ne			TB

								·		
Project No	3000	3 N	Pro	niect Nam	ne BB Grou	ndwater Sa	ampling	Client	Burlington	
1 -				-				<del>_</del>	Sampling	-
	•							-		Weatherclear 70s
1 -	•								·	easuring PointTOC
	_				// Dia		TOUGOT TIN	OKI1033	141	sasaring rount <u>roo</u>
Water Co	iuitiii i te	rigi i	<u> </u>	<u> </u>	гыа					
Sampling	Mathad	. 0	uhmer	sible Pun		Centrifua	al Pump - F	7 Perista	Itic Pump C	Other
Sampling	Method		abinei	Sible I dil	ים	Ochunago	arr ump _	_	inio i dilip [	
		В	ottom	Valve Bai	iler	D	ouble Che	ck Valv⊟Ba	ailer Sta	ainless-Steel Kemr⊡rer
Outs a situal	0 +- 5 0	\:	\ / -		Matau Dawa	al <b>V</b>	letti and an a	£ 1	Dawana atau-	V Other and all disc
Criteria:	3 to 5 C	,ası	ng voi	umes of	water Hem	oval X sta	idilization o	i indicator	Parameters	X Other or bail dry
						Water Vol	ume in Wel			
Gal/f	t x ft of	wat	er		Gallons			Ounces		Gal/ <b>oz</b> to be removed
11	1.77 x 0	.16			1.92					5.76
L										
Time	pŀ	1	T	SC	Temp	ORP	D.O.	Turbidit	y Vol Eva	ac. Comments/
(military)			I	nos/cm)	(°F)	(millivolts	I	II	•	
	5.6				71. 2	,	, , ,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.25	
1107				830 						gray
	4.4	1		810	66.4				1	gray
	3.3	2	2	2100	64.8				2	gray
	2.8	2	2	2100	64.3				3	gray
	2.4	0	2	190	64.4				5	gray
	2.5	9	2	2310	64.8				5.25	gray
	2.5	1	2	2240	64.1				5.5	gray
1128	2.5	7	2	2300	64.7		***		5.75	gray
				`						3 ,
			L			<u> </u>				
Final:	· · · · ·	1		A CONTRACT		· ·	ž ·	Ferrous	y and the things	
	рН	s	C	Temp	Eh-ORP	D.O	Turbidity	Iron	Vol Evac.	Comments/Flow Rate
1128	2.57		2300	64.7			· and and	3	5.75	gray
				* 2						
COMMEN	TS:									
										· · · · · · · · · · · · · · · · · · ·
INSTRUM	IEN I A T	ION	1: k	oH Meter	. <b>X</b>				nperature M	eter <b>x</b>
		_		DO Moi				_ Oth	ner	
				tivity Met				_		
Water Dis					Sample	e ID <u>MW-12</u>	2 Sample 1	Fime113	30	
Analysis	B	TE	$\mathbf{X}$							
MS/MSD_	_			BD_		В	D Name/Ti	me		TB

Location: Project M Depth to	Hai ana Vat	mptor iger _ ter	18	M MJN 3.25	Wel	e <u>BR Grou</u> I No: <u>MV</u> th to Produ	V-15 Date ct _na	 6/2	Deve 1/04	lopment Start Ti	Sampling me_0915		Weather <u>clear 70s</u> uring Point <u>TOC</u>
Sampling	Me	thod:	Sı	ubmer	sible Pun	np 🗆	Centrifu	gal F	oump 🗆	Peristal	tic Pump [		Other 🗆
Bottom V	alve	e Baile	er	X		Double	Check V	alve	Bailer Í	Stainles	ss-Steel Ke	emme	erer <sup>(</sup>
Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other or bail dry													
	Water Volume in Well												
	Gal/ft x ft of water Gallons Ounces Gal/oz to be removed												
9	.04	x 0.1	16			1.48							4.43
				<del></del>	l			Ш_					
Time		рH	_		SC	Temp	ORP		D.O.	Turbidity	Vol Ev	ac	Comments/
(military)	)	(su			hos/cm)	(°F)	(millivol		(mg/L)	(NTU)	( gal	Į.	Flow rate
0915		3.7	5	2	2040	57.1					0.2		clear
		3.7	5	2	2060	56.6				<del> </del>	0.4		cloudy
		3.62	2	2	2080	56.3				<del></del>	0.56	,	cloudy
		3.5	В	2	2030	56.0					1		cloudy
		3.5	5	2	2040	56.2					2		cloudy
		3.5	5	2	2080	56.4					3		cloudy
		3.54	4	2	2040	56.4					4		cloudy
		3.5	5	2	2020	56.6					4.25	,	cloudy
		3.53	3		2020	56.5					4.5		cloudy
<u>0937</u>		3.53	3	2	2030	56.4	<del></del>				4.75		cloudy
							<del></del>						
Final:				7,00			· ,			Ferrous		1	· · · · · · · · · · · · · · · · · · ·
Time	рΗ		S	<u> </u>	Temp	Eh-ORP	D.O.	Tu	rbidity	Iron	Vol Evac.	Co	omments/Flow Rate
<u>0937</u>	3	.53	2	030	56.4						4.75	cl	oudy
					·	<u></u>			<del></del>			ــــــــــــــــــــــــــــــــــــــ	
COMMEN	ITS	:								·			
INSTRUM	1EN	ITATI	ON	l:	oH Meter	Χ				Ten	perature N	/leter	X
			^	ondus	DO Mo				·	Oth	er		<del></del>
Moto D'		la-			ctivity Met		LID BANA		Comment: T		•		
Water Dis	hos					Sample	וט <u>ועועץ-</u>	15 3	sample 1	ime <u>      104</u>	<u></u>		
Analysis			ΓE					<b>-</b>					
MS/MSD_		MS/MSD BD BD Name/Time TB											

Project No.:	30003.0	Pro	oject Nam	ne:_BR Gro	undwater S	Sampling	Client:_B	Burlington_	_		
Location: Ha	ampton 4	М	Well	No:MW	<u>/-16</u>	Deve	elopment §	Sampling			
Project Man	ager	MJN			Date6	/21/04	Start Tim	ie <u>1027</u>	Weatherclear 70s		
Depth to Wa	ater2	4.76	_ Dep	th to Produ	ict <u>na</u> F	roduct Thic	ckness: <u>na</u>	Me	asuring PointTOC		
Water Colur	nn Heigh	t <u>6.8</u> 4	<u>1</u> Wel	l Dia	4"						
Sampling M	ethod: S	ubmer	sible Pun	ıp □	Centrifuga	al Pump 🗀	] Peristalti	c Pump 🛚	Other 🗆		
Bottom Valv	e Bailer	X			ouble Che	ck Valve Ba	ailer 🗌 S	tainless-St	eel Kemmerer		
Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other_or bail_dry											
0-1/4	. fr			Gallons	Water Volu	ıme in Well			Onl/om to be well as a		
Gal/ft x ft of water Gallons Ounces Gal/oz to be removed  6.84 x 0.65 4.45 13.34											
0.0	6.84 X 0.65 4.45										
Time	pН		SC	Temp	ORP	D.O.	Turbidity	Vol Eva	c. Comments/		
(military)	(su)		hos/cm)	(°F)	(millivolts		(NTU)	( gal)	Flow rate		
1027	5.77	1	1730	71.0				.5	Heavy hydrocarbon odor		
	4.04	1	1900	62.9				2			
	5.10	1	1510	61.0				4			
	5.13	2	2020	60.3				4.5	well is bailing down		
	5.10	2	2040	60.4				4.75			
1048	5.0	2	2070	59.9				5	well has bailed dry		
Final			F - 1, 2 - 2	ga arras en en en	<del>                                     </del>	. 2.57.54	Ferrous	. I	· · · · · · · · · · · · · · · · · · ·		
<b>Final:</b> Time pl	i s	C	Temp	Eh-ORP	D.O	Turbidity		Vol Evac.	Comments/Flow Rate		
1048	5.0 2	2070	59.9			*		5	well has bailed dry		
COMMENT	S: well ba	iled di	ry								
INSTRUME	NTATION	J: 1	oH Meter	X			Temr	perature Me	eter x		
INSTRUMENTATION: pH Meter X Temperature Meter x  DO Monitor Other											
	C	onduc	ctivity Met				_ 0.110				
Water Dispo			2y 14101		= ID <u>MW-16</u>	Sample T	- 「ime 1050				
Analylsis	BTE			Jap.			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
MS/MSD			BD		В	D Name/Tii	me		TB		

ACZ Labor	ratories	s, Inc.			L46	37 <i>/</i>				IAIN	of	· 蜀山
2773 Downhill Drive Steamboat Sp	<b>我们的地方,这次证明。据书书</b>	87 (800) 334	-5493	Sa Friend			- #1480°		. 60	STC	IJΥ	
Report to:	100				等等	A. C. A.		man order		177		
Name: Gregg Wo Company: Buringto.	ハイモ	0	-{	Addre		3401	Ea	<u>s+ ;</u>	30 In		REE	<u> </u>
•	n Resou	rces	4		am	Ing	ton.	N	M 8	<del>`</del>	9	
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Company:			1							<del></del>		
E-mail:			1	Telep	hone:							
If sample(s) received past holding	time (HT), or	if insufficien	⊔ it HT ren	<u> </u>		ete				YES		
analysis before expiration, shall A	•									NO		]
If "NO" then ACZ will contact clied is indicated, ACZ will proceed with							will be	aualifi	ad			
PROJECT INFORMATION					2				المستحفظ	use qu	ote nun	nber)
Quote #:	(Jahra and Abstraction P.)	TO THE REAL PROPERTY OF THE PERSON NAMED IN PARTY OF THE PERSON NAMED IN PARTY OF THE PERSON NAMED IN PARTY OF	C-211 At A. 114-3	trae :	. Se 3.0				Part of Mark	Carlot M		A. 5
	ampline	G.	1	ျှ								
Shipping Co.:	-111121111	<del>-</del>	1 .	ine								}
Tracking #:			1	of Containers								
Reporting State for compliance	testing:		1	) Š	ہے							
				#	75							
SAMPLE IDENTIFICATION	DAŢE	TIME.	Matrix	<b>.</b>	8							
MW-1 Hamprons	6/21/04	0 900	GW	3	X							ļ
mw-15 Hamprons	621/04	0940	GW	9	χ							
MW-9 HAMPTONS	6/21/04	1014	GW	a	7				ļ			<u> </u>
mw-16 Hampions	6/21/04	1050	GW	9	7							ļ
	40169	1130	GW	5	\\ \t							<del> </del>
SEED HAMPTONS		1145	<b>3</b> W	<u>ک</u> ک	X							
MW-S HAMPTONS TMW-1 HAMPTONS	6/21/04	1220	GW	2	1						-	<del>                                     </del>
mw-7 Hamptons	6/21/04	1247	GW	a	1							1
mw-11 HAMPTONS		1327	ew	ว	X							<b> </b>
Trip Blank	6/21/04	1330	0		X						****	
Matrix SW (Surface Water) GW		WW (Waste W	/ater) · DV	V (Drinkir	ng Water)	· SL (Sl	ıdge) S	O (Soil)	OL (Oil)	· Other (	Specify)	
REMARKS		The state of					1				3.4	<b>(\$</b>
					*							
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2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493



July 12, 2004

Gregg Wurtz
Burlington Resources, Inc.
3401 E. 30th St. PO BOX 4289
Farmington, NM 87402-4289

Project ID: MISC SAMPLING ACZ Project ID: L46371

Gregg Wurtz:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 24, 2004. This project has been assigned to ACZ's project number, L46371. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan, version 10.0. The enclosed results relate only to the samples received under L46371. 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 August 12, 2004. 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.

12/Jul/04

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





(800) 334-5493

### Organic Analytical Results

**Burlington Resources, Inc.** 

Analysis Method:

Extract Method:

Project ID:

MISC SAMPLING

Sample ID:

SEEP HAMPTONS

ACZ Sample ID: L46371-06

Date Sampled: 06/21/04 11:45

Date Received:

06/24/04

Sample Matrix:

Ground Water

Benzene, Toluene, Ethylbenzene & Xylene,

Method

M8021B GC/PID

Analyst: km

Extract Date: 06/29/04 16:35

Analysis Date:

06/29/04 16:35

Dilution Factor:

Compound

Compound	GAS Res	ult eluale xo	Unite	aMor.	POL
Benzene	000071-43-2	U	ug/L	0.3	1
Ethylbenzene	000100-41-4	U	ug/L	0.2	1
m ρ Xylene	01330 20 7	U *	ug/L	0.4	2
o Xylene	00095-47- 6	U	ug/L	0.2	1
Toluene	000108-88-3	U	ug/L	0.2	1

Surrogate/	CAS 7	Recovery XQ	Unita :	ILGE :	(val-
Bromofluorobenzene	000460-00-4	98.6	%	83	117

Organic Analysica Results

Burlington Resources, Inc.

Analysis Method:

Extract Method:

MISC SAMPLING

Project ID: Sample ID:

TMW-1 HAMPTONS

ACZ Sample ID:

L46371-08

Date Sampled:

06/21/04 12:20

Date Received:

06/24/04

Sample Matrix:

Ground Water

Benzana, Toluana, Ethylbenzena & Xylana.

Method

M8021B GC/PID

Analyst:

km

Extract Date: Analysis Date: 06/29/04 18:44 06/29/04 18:44

Dilution Factor:

Compound

Gompound	@AS	Carrio : Carrio	OUAL RE	. Walte	NOT:	LOT.
Benzene	000071-43-2	40.6	*	ug/L	0.3	1
Ethylbenzene	000100-41-4	14.1		ug/L	0.2	1
m p Xylene	01330 20 7	7.9		ug/L	0.4	2
o Xylene	00095-47- 6	6.8		ug/L	0.2	1
Toluene	000108-88-3		U	ug/L	0.2	1

Sundinte :	GO.	%Reovery	. <b>20</b> : Valta	their	Mer
Bromofluorobenzene	000460-00-4	110.7	%	83	117

2773 Downhill Drive Steamboat Springs, CO 80487

(800) 334-5493

### Organie Analydiea Resuls:

Burlington Resources, Inc.

Analysis Method:

Extract Method:

Project ID:

MISC SAMPLING

Sample ID:

**MW-1 HAMPTONS** 

ACZ Sample ID:

L46371-01

Date Sampled:

06/21/04 9:00

Date Received:

06/24/04

Sample Matrix:

Ground Water

Benzene, Toluene, Ethylbenzene & Xylene.

Method

M8021B GC/PID

Analyst: km

Extract Date: Analysis Date: 06/29/04 12:18 06/29/04 12:18

Dilution Factor:

Compound

Gombound	CAS 144 J (Resul	i - Oual Xe	) Unite	· Mor	୍ ଜ୍ୟ
Benzene	000071-43-2	U	ug/L	0.3	1
Ethylbenzene	000100-41-4	U	ug/L	0.2	1
m p Xylene	01330 20 7	U *	ug/L	0.4	2
o Xylene	00095-47- 6	U	ug/L	0.2	1
Toluene	000108-88-3	U	ug/L	0.2	1

Sunogele	PAS 9	Recovery	XQ Uillis.	ILGF.	DOF
Bromofluorobenzene	000460-00-4	95.4	0/2	83	117

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

Burlington Resources, Inc.

Analysis Method:

Extract Method:

Project ID:

MISC SAMPLING

Sample ID:

**MW-5 HAMPTONS** 

ACZ Sample ID:

L46371-07

Date Sampled:

06/21/04 12:05

Date Received:

06/24/04

Sample Matrix:

Ground Water

Benzene, Toluene, Elhylbenzene

Method

M8021B GC/PID

Analyst:

km

50

Extract Date:

06/29/04 18:00

Analysis Date: 06/29/04 18:00

Dilution Factor:

Compound

<b>Compound</b>	COS - S	Resulted (C	mar ko n	die Mo	र अखा
Benzene	000071-43-2	1610	* u	g/L 20	50
Ethylbenzene	000100-41-4	640	u	g/L 10	50
m p Xylene	01330 20 7	6530	u	g/L 20	100
o Xylene	00095-47- 6	1690	u	g/L 10	50
Toluene	000108-88-3	8740	u	g/L 10	50

Surojao	GAE 1	%Recoxeny	E CONTRACTOR OF THE CONTRACTOR	(COL	- DOC
Bromofluorobenzene	000460-00-4	105	%	83	117

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

**Burlington Resources, Inc.** 

Project ID:

MISC SAMPLING

Sample ID:

**MW-7 HAMPTONS** 

ACZ Sample ID:

L46371-09

Date Sampled:

06/21/04 12:47

Date Received:

06/24/04

Sample Matrix:

Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Analyst: km

M8021B GC/PID

Extract Date: Analysis Date:

07/01/04 21:18 07/01/04 21:18

Analysis Method: Extract Method:

Method

Dilution Factor: 20

Compound

Compound	PAS 112	JResult	- GUAL	O Willia s	MOL	ः एकप्
Benzene	000071-43-2	180		ug/L	6	20
Ethylbenzene	000100-41-4	55		ug/L	4	20
m p Xylene	01330 20 7	27	J	ug/L	8	40
o Xylene	00095-47- 6	31		ug/L	4	20
Toluene	000108-88-3		U	ug/L	4	20

Surrogate Recoveries

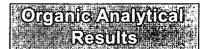
Surceele	CAS F	% Recovery	ethty 9X	[GL]	્રાહા
Bromofluorobenzene	000460-00-4	104.2	%	83	117

REPOR.01.01.01.02

L46371: Page 10 of 17

## 🙎 Laboratories, Inc.

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**Burlington Resources, Inc.** 

Analysis Method:

Extract Method:

Project ID:

MISC SAMPLING

Sample ID:

**MW-9 HAMPTONS** 

ACZ Sample ID:

L46371-03

Date Sampled:

06/21/04 10:14

Date Received:

06/24/04 Sample Matrix: Ground Water

Benzene, Voluene, Ethylbenzene & Xylene

Method

M8021B GC/PID

Analyst:

km

Extract Date:

06/29/04 14:27

L46371: Page 4 of 17

Analysis Date:

06/29/04 14:27

Dilution Factor:

Compound

Compound	GAS, CAS	Messen Graf 200	end!	: حافلان	POL
Benzene	000071-43-2	U	ug/L	0.3	1
Ethylbenzene	000100-41-4	U	ug/L	0.2	1
m p Xylene	01330 20 7	U *	ug/L	0.4	2
o Xylene	00095-47- 6	U	ug/L	0.2	1
Toluene	000108-88-3	U	ug/L	0.2	1
o Xylene	00095-47- 6	U	ug/L	0.2	1 1

Surrogale	GAS.	% Recovery	<u>, 200 Onto</u>	TOP.	nor
Bromofluorobenzene	000460-00-4	96.4	%	83	117

Organic Analysical Results

**Burlington Resources, Inc.** 

Analysis Method:

Extract Method:

Project ID:

MISC SAMPLING

Sample ID:

**MW-12 HAMPTONS** 

ACZ Sample ID:

L46371-05

Date Sampled:

06/21/04 11:30

Date Received:

06/24/04

Sample Matrix:

Ground Water

Benzene Toluene, Ethylbenzene & Xylene

Method

M8021B GC/PID

Analyst: km

Extract Date: Analysis Date: 06/29/04 15:52

06/29/04 15:52 50

Dilution Factor:

Compound

Gempound)	C. G.B.	Result	व्यक्ति हेन्द्र यार्थि	Mor	POL
Benzene	000071-43-2	3870	ug/L	20	50
Ethylbenzene	000100-41-4	280	ug/L	10	50
m p Xylene	01330 20 7	1280	* ug/L	20	100
o Xylene	00095-47- 6	220	ug/L	10	50
Toluene	000108-88-3	1820	ug/L	10	50

Surcepte:	@AS	%Recovery	XQ. Viito	TOP.	MGF
Bromofluorobenzene	000460-00-4	101.9	%	83	117

Organic Analytica Results

(800) 334-5493

Burlington Resources, Inc.

Analysis Method:

Extract Method:

Project ID: MISC SAMPLING

Sample ID:

**MW-15 HAMPTONS** 

ACZ Sample ID:

L46371-02

Date Sampled:

06/21/04 9:40

Date Received:

06/24/04

Sample Matrix:

Ground Water

Benzene Toluene, Ethylbenzene & Xylene,

Method

M8021B GC/PID

Analyst:

km

Extract Date: Analysis Date: 06/29/04 13:44 06/29/04 13:44

Dilution Factor:

Compound

Gempound .	GAS (Result)	PD/ALS	१७० था	ic Mol	(LOC)
Benzene	000071-43-2	U	ug	/L 0.3	1 .
Ethylbenzene	000100-41-4	U	ug	/L 0.2	1
m p Xylene	01330 20 7	U	* ug	/L 0.4	2
o Xylene	00095-47- 6	U	ug	/L 0.2	1
Toluene	000108-88-3	U	ug	/L 0.2	1

Supporte	@G	%(Recovery	දැල් මා්ට්	LOT.	MOL
Bromofluorobenzene	000460-00-4	97.1	%	83	117

Burlington Resources, Inc.

Analysis Method:

Extract Method:

Project ID:

MISC SAMPLING

Sample ID:

**MW-16 HAMPTONS** 

ACZ Sample ID:

L46371-04

Date Sampled:

06/21/04 10:50

Date Received:

06/24/04

Sample Matrix:

Ground Water

Benzene, Toluene, Ethylbenzene & Xylene,

Method

**M8021B GC/PID** 

Analyst: km

Extract Date: Analysis Date:

06/29/04 15:09

06/29/04 15:09

Dilution Factor:

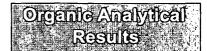
100

Compound

Compound	OAS A SAME	Result @MAL	<u> </u>	Ualto : I	Mor 🔻	POL!
Benzene	000071-43-2	8040		ug/L	30	100
Ethylbenzene	000100-41-4	2450		ug/L	20	100
m p Xylene	01330 20 7	15000	*	ug/L	40	200
o Xylene	00095-47- 6	3580		ug/L	20	100
Toluene	000108-88-3	18100		ug/L	20	100

Surgicia :	GAS .	% Resogniy	ැම වැඩිම	rar	nor .
Bromofluorobenzene	000460-00-4	116.1	%	83	117

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



Burlington Resources, Inc.

Analysis Method:

Extract Method:

Project ID:

MISC SAMPLING

Sample ID:

TRIP BLANK 061104-03

M8021B GC/PID

ACZ Sample ID:

L46371-11

Date Sampled:

06/21/04 13:30

Date Received:

06/24/04

Sample Matrix:

Ground Water

Benzene, Volvene, Binylbenzene & Xylene,

Method

Analyst: km

Extract Date: 06/29/04 20:53

Analysis Date:

06/29/04 20:53

Dilution Factor:

Compound

@omjjound	CAS Rosu	it : eual zo	. Comp	Mor	POL
Benzene	000071-43-2	U *	ug/L	0.3	1
Ethylbenzene	000100-41-4	U	ug/L	0.2	1
m p Xylene	01330 20 7	U	ug/L	0.4	2
o Xylene	00095-47- 6	U	ug/L	0.2	1
Toluene	000108-88-3	U	ug/L	0.2	1

Surocae	G/G	%Recovery	enno. Ox	, Fer	UGL
Bromofluorobenzene	000460-00-4	98.4	%	83	117

AC 1773 Downhill L		ratories, Inc. ngs. CO 80487 (800) 334	-5493	Organie :: Reference ::	
pon Heada	Explanations :				
Batch	A distinct set of sam	ples analyzed at a specific	time		
Found	Value of the QC Typ				
Limit	Upper limit for RPD,	in %.			
Lower	Lower Recovery Lim	nit, in % (except for LCSS,	mg/Kg)		
LCL	Lower Control Limit				
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.				
PCN/SCN	SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis				
PQL	, ,				
QC	True Value of the Co	ontrol Sample or the amour	it added to the Spike		
Rec	Amount of the true v	alue or spike added recove	ered, in % (except for LC	SS, mg/Kg)	
RPD	Relative Percent Dif	ference, calculation used fo	or Duplicate QC Types		
Upper	Upper Recovery Lim	nit, in % (except for LCSS,	mg/Kg)		
UCL	Upper Control Limit				
Sample	Value of the Sample	of interest			
C Sample Ty	pes				
SURR	Surrogate		LFM	Laboratory Fortified Matrix	
INTS	Internal Standard		LFMD	Laboratory Fortified Matrix Duplicate	
DUP	Sample Duplicate		LRB	Laboratory Reagent Blank	
LCSS	Laboratory Control S	Sample - Soil	MS/MSD	Matrix Spike/Matrix Spike Duplicate	
LCSW	Laboratory Control S	Sample - Water	PBS	Prep Blank - Soil	
LCSW LFB	Laboratory Control S Laboratory Fortified	·	PBS PBW	Prep Blank - Soil Prep Blank - Water	
LFB	•	·		·	
LFB	Laboratory Fortified	Blank	PBW ↓↓↓↓	·	
<i>LFB</i> C Sample Ty	Laboratory Fortified	Blank  Verifies that there is no  Verifies the accuracy of	PBW or minimal contamination of the method, including t	Prep Blank - Water on in the prep method procedure. the prep procedure.	
LFB CSample Ty Blanks Control Sar Duplicates	Laboratory Fortified pelexplanations	Blank  Verifies that there is no  Verifies the accuracy of  Verifies the precision of	PBW or minimal contamination of the method, including to of the instrument and/or r	Prep Blank - Water  As a second in the prep method procedure, the prep procedure, method.	
<i>LFB</i> <b>GSample Ty</b> Blanks Control Sar	Laboratory Fortified pelexplanations:	Blank  Verifies that there is no  Verifies the accuracy of  Verifies the precision of	PBW or minimal contamination of the method, including t	Prep Blank - Water  As a second in the prep method procedure, the prep procedure, method.	
LFB  GSample Ty  Blanks  Control Sar  Duplicates  Spikes/Fort	Laboratory Fortified pelexplanations:	Blank  Verifies that there is not verifies the accuracy of Verifies the precision of Determines sample managements.	PBW or minimal contamination of the method, including to of the instrument and/or r	Prep Blank - Water  As a second in the prep method procedure, the prep procedure, method.	
LFB  Sample Ty Blanks Control Sar Duplicates Spikes/Fort	Laboratory Fortified  per Explanations  mples  tified Matrix (Qual)	Blank  Verifies that there is not verifies the accuracy of verifies the precision of Determines sample modally blank	PBW or minimal contamination of the method, including to of the instrument and/or r	Prep Blank - Water  As a second in the prep method procedure, the prep procedure, method.	
LFB  CSample Ity Blanks Control Sar Duplicates Spikes/Fort CZ Qualifiers B	Laboratory Fortified  per Carlonations  mples  tified Matrix  (Qual)  Analyte detected in a	Blank  Verifies that there is not verifies the accuracy of verifies the precision of Determines sample modally blank	PBW or minimal contamination of the method, including to of the instrument and/or relative interferences, if any	Prep Blank - Water  As a second in the prep method procedure, the prep procedure, method.	
LFB CSample Ty Blanks Control Sar Duplicates Spikes/Fort CZ Qualifiers B H	Laboratory Fortified  PAIS plantitions  mples  tified Matrix  (Cual)  Analyte detected in a Analysis exceeded ranalyte concentration	Verifies that there is not verifies the accuracy of Verifies the precision of Determines sample madaily blank method hold time.	PBW or minimal contamination of the method, including the instrument and/or relative interferences, if any	Prep Blank - Water on in the prep method procedure. he prep procedure. nethod.	
LFB  CSample Ty  Blanks  Control Sar  Duplicates  Spikes/Fort  CZ Qualifiers  B  H  J	Laboratory Fortified  PASSIBLE AND TO THE SECONDARY  In the second of th	Verifies that there is not verifies the accuracy of Verifies the precision of Determines sample made ally blank method hold time.  In detected at a value between accepted because the other verifies the precision of the precisio	PBW or minimal contamination of the method, including the instrument and/or relative interferences, if any even MDL and PQL or spike in the set fell with	Prep Blank - Water on in the prep method procedure. he prep procedure. nethod.	
LFB  CSample Ty  Blanks  Control Sar  Duplicates  Spikes/Fort  CQualifiers  B  H  J  R	Laboratory Fortified  Pale planations  mples  iffied Matrix  (Curi)  Analyte detected in a Analysis exceeded r Analyte concentration Poor spike recovery High Relative Percei	Verifies that there is not verifies the accuracy of Verifies the precision of Determines sample made ally blank method hold time.  In detected at a value between accepted because the other verifies the precision of the precisio	PBW or or minimal contamination of the method, including to of the instrument and/or relatrix interferences, if any even MDL and PQL or spike in the set fell with ed because sample conce	Prep Blank - Water on in the prep method procedure. he prep procedure. nethod.	
LFB  Sample Ty  Blanks  Control Sar  Duplicates  Spikes/Fort  Couglines  B  H  J  R  T	Laboratory Fortified  pa(Explanations)  mples  iffied Matrix  (Cuci):  Analyte detected in a Analysis exceeded ranalyte concentration Poor spike recovery High Relative Perceivanalyte was analyze	Verifies that there is not verifies the accuracy of Verifies the precision of Determines sample management of the verifies the precision of Determines sample management of the verifies the precision of the verifies of the verifies of the verifies that the verifies of th	PBW of or minimal contamination of the method, including to of the instrument and/or relatrix interferences, if any even MDL and PQL or spike in the set fell with ed because sample conceler indicated MDL	Prep Blank - Water on in the prep method procedure. he prep procedure. nethod.	
LFB  Sample Ty  Blanks  Control Sar  Duplicates  Spikes/Fort  Containing  B  H  J  R  T  U	Laboratory Fortified  pa(Explanations)  mples  iffied Matrix  (Cual)  Analyte detected in a Analysis exceeded ranalyte concentration Poor spike recovery High Relative Perceivanalyte was analyze High blank data accertified.	Verifies that there is not verifies the accuracy of Verifies the precision of Determines sample management of the verifies the precision of Determines sample management of the verifies the precision of the verifies of the verifies of the verifies that the verifies of th	PBW or or minimal contamination of the method, including to of the instrument and/or relatrix interferences, if any een MDL and PQL or spike in the set fell with ed because sample conce or indicated MDL centration is 10 times hig	Prep Blank - Water  on in the prep method procedure. the prep procedure. method.  nin the given limits. the prep limits. the than blank concentration	
LFB  CSample IV  Blanks  Control Sar  Duplicates  Spikes/Fort  CV-Qualifiers  B  H  J  R  T  U  V	Laboratory Fortified  pa(Explanations)  mples  iffied Matrix  (Cual)  Analyte detected in a Analysis exceeded ranalyte concentration Poor spike recovery High Relative Perceivanalyte was analyze High blank data accertified.	Verifies that there is not verifies the accuracy of Verifies the precision of Determines sample made accepted because the other of the Difference (RPD) accepted for but not detected at the epted because sample concepted because sample concepted ver quality control is accepted to the other precision of the control of the	PBW or or minimal contamination of the method, including to of the instrument and/or relatrix interferences, if any een MDL and PQL or spike in the set fell with ed because sample conce or indicated MDL centration is 10 times hig	Prep Blank - Water  on in the prep method procedure. the prep procedure. method.  nin the given limits. the prep limits. the than blank concentration	
LFB  CSample Ty Blanks Control Sar Duplicates Spikes/Fort  CZ Qualifiers  H J R T U V W	Laboratory Fortified  PASSIBLITATIONS  Inples  Iffied Matrix  Analyte detected in a Analysis exceeded in Analyte concentration Poor spike recovery High Relative Percei Analyte was analyze High blank data accel Poor recovery for Sil Quality contreol same	Verifies that there is not verifies the accuracy of Verifies the precision of Determines sample managed by the precision of Determines sample managed by the precision of Determines sample managed by the precision of the precisi	PBW or minimal contamination of the method, including to the instrument and/or reatrix interferences, if any een MDL and PQL or spike in the set fell with ed because sample concernicated MDL centration is 10 times highted because Silver often	Prep Blank - Water  on in the prep method procedure. the prep procedure. method.  nin the given limits. the prep limits. the than blank concentration	
LFB  CSample Ty  Blanks  Control Sar  Duplicates  Spikes/Fort  CAUALITIES  B  H  J  R  T  U  V  W  X	Laboratory Fortified  Pale planations  mples  iffied Matrix  (Curi)  Analyte detected in a Analyte concentration Poor spike recovery High Relative Perceit Analyte was analyze High blank data acce Poor recovery for Sil Quality contreol same	Verifies that there is not verifies the accuracy of Verifies the precision of Determines sample managed by the precision of Determines sample managed by the precision of Determines sample managed by the precision of the precisi	PBW or minimal contamination of the method, including to the instrument and/or reatrix interferences, if any een MDL and PQL or spike in the set fell with ed because sample conce indicated MDL centration is 10 times highted because Silver often the concentration is four times to the concentration is four times and the concentration is four times.	Prep Blank - Water on in the prep method procedure. the prep procedure. method.  In the given limits. the preprince less than 10x the MDL. ther than blank concentration precipitates with Chloride.	
LFB  CSample Ty Blanks Control Sar Duplicates Spikes/Fort  CQualifies B H J R T U V W X Z	Laboratory Fortified  Pale planations  mples  iffied Matrix  (Ctrai)  Analyte detected in a Analysis exceeded in Analyte concentration Poor spike recovery High Relative Perceit Analyte was analyze High blank data acce Poor recovery for Sil Quality contreol sam Poor spike recovery Analyte concentration	Verifies that there is not verifies the accuracy of Verifies the precision of Determines sample management of the Verifies the precision of Determines sample management of the Verifies the vertical that Difference (RPD) accepted for but not detected at the Pepted because sample consider of the Verifies out of control.	PBW or minimal contamination of the method, including to the instrument and/or reatrix interferences, if any een MDL and PQL er spike in the set fell with ed because sample conce indicated MDL centration is 10 times highted because Silver often the concentration is four tictor by more than 40%.	Prep Blank - Water on in the prep method procedure. the prep procedure. Inethod.  In the given limits. In the given limits. In the than blank concentration In the preprint of	
LFB  GSample Ty Blanks  Control San Duplicates Spikes/Fort  Control San Duplicates Spikes/Fort  Control San Duplicates Spikes/Fort  Volumental B H J R T U V W X Z P	Laboratory Fortified  pale planations  mples  iffied Matrix  (Cual):  Analyte detected in a Analysis exceeded in Analyte concentration Poor spike recovery High Relative Perceion Analyte was analyzed High blank data access Poor recovery for Sil Quality contreol same Poor spike recovery Analyte concentration Analyte concentration	Verifies that there is not Verifies the accuracy of Verifies the precision of Determines sample management of the American detected at a value between the Difference (RPD) accepted for but not detected at the peted because sample concept of the American detected at the peted because sample concept of the American detected at the peted because sample concept of the American detected at the peted because sample concept of the American detected because sample is out of control.	PBW or or minimal contamination of the method, including to the instrument and/or reatrix interferences, if any end of the instrument and/or reatrix interferences, if any end of the instrument and PQL er spike in the set fell with end because sample concertion is 10 times high ted because Silver often the concentration is four the concentration is four the concentration is four the concentration call by more than 40%.	Prep Blank - Water on in the prep method procedure. the prep procedure. Inethod.  In the given limits. In the given limits. In the than blank concentration In the preprint of	
LFB  GSamplo It Blanks  Control San Duplicates Spikes/Fort  ACT U V W X Z P E M	Laboratory Fortified  pale planations  mples  iffied Matrix  (Cual):  Analyte detected in a Analysis exceeded in Analyte concentration Poor spike recovery High Relative Perceion Analyte was analyzed High blank data access Poor recovery for Sil Quality contreol same Poor spike recovery Analyte concentration Analyte concentration	Verifies that there is not Verifies the accuracy of Verifies the precision of Determines sample multiple of the precision of Determines sample multiple of the precision of Determines sample multiple of the precision of the prec	PBW or or minimal contamination of the method, including to the instrument and/or reatrix interferences, if any end of the instrument and/or reatrix interferences, if any end of the instrument and PQL er spike in the set fell with end because sample concertion is 10 times high ted because Silver often the concentration is four the concentration is four the concentration is four the concentration call by more than 40%.	Prep Blank - Water  on in the prep method procedure. he prep procedure. nethod.  nin the given limits. entrations are less than 10x the MDL. her than blank concentration precipitates with Chloride.  mes greater than spike concentration. nge.	
LFB  GSamplo It Blanks  Control San Duplicates Spikes/Fort  ACT U V W X Z P E M	Laboratory Fortified  PASSIBLITATIONS  Inples  Iffied Matrix  Analyte detected in a Analyte concentration Poor spike recovery High Relative Percel Analyte was analyze High blank data acce Poor recovery for Sil Quality contreol sam Poor spike recovery Analyte concentration Analyte concentration Analyte concentration Analyte concentration Analyte concentration  Analyte concentration  Analyte concentration	Verifies that there is not Verifies the accuracy of Verifies the precision of Determines sample multiple of the precision of Determines sample multiple of the precision of Determines sample multiple of the precision of the prec	PBW or minimal contamination of the method, including the first the instrument and/or restrict interferences, if any een MDL and PQL er spike in the set fell with ed because sample conce indicated MDL centration is 10 times high ted because Silver often the concentration is four tietor by more than 40%. It exceeding calibration raise interferences.	Prep Blank - Water on in the prep method procedure. the prep procedure. Inethod.  In the given limits. In the given limits. In the than blank concentration In the preprint of	
LFB  CSample Ty Blanks Control Sar Duplicates Spikes/Fort  CZ Qualifiers B H J R T U V W X Z P E M  CIted Refere	Laboratory Fortified  Pale planations  mples  iffied Matrix  (Curi)  Analyte detected in a Analysis exceeded in Analyte concentration Poor spike recovery High Relative Perceit Analyte was analyze High blank data acceled poor recovery for Sil Quality contreol same Poor spike recovery Analyte concentration Analyte concentration Analyte concentration Analyte concentration Analyte concentration EPA 600/4-83-020.	Verifies that there is not Verifies the accuracy of Verifies the precision of Determines sample management of the Verifies the precision of Determines sample management of the Verifies the precision of Determines sample management of the Verifies of the	PBW or minimal contamination of the method, including to the instrument and/or reatrix interferences, if any even MDL and PQL or spike in the set fell with ed because sample concernicated MDL contration is 10 times high ted because Silver often the concentration is four tictor by more than 40%. It exceeding calibration raise interferences.	Prep Blank - Water on in the prep method procedure. the prep procedure. Inethod.  In the given limits. In the given limits. In the than blank concentration In the preprint of	
LFB  CSample Ty Blanks Control Sar Duplicates Spikes/Fort  CQualifies B H J R T U V W X Z P E M Clinco Refore (1)	Laboratory Fortified  pa(Explanations)  mples  iffied Matrix  (Circl)  Analyte detected in a Analyte concentration Poor spike recovery High Relative Perceic Analyte was analyze High blank data acceptor recovery for Sill Quality contreol same Poor spike recovery Analyte concentration Analyte concentration Analyte concentration Analyte concentration Analyte concentration Analyte concentration EPA 600/4-83-020.	Verifies that there is not Verifies the accuracy of Verifies the precision of Determines sample management of the New Year of	PBW or minimal contamination of the method, including to the instrument and/or reatrix interferences, if any even MDL and PQL er spike in the set fell with ed because sample concernicated MDL centration is 10 times high ted because Silver often the concentration is four the tor by more than 40%. It exceeding calibration raise interferences.	Prep Blank - Water on in the prep method procedure. he prep procedure. nethod.  hin the given limits. entrations are less than 10x the MDL. her than blank concentration precipitates with Chloride.  mes greater than spike concentration. nge.  s, March 1983.	
LFB  Sample Ly Blanks Control San Duplicates Spikes/Fort  Coughings B H J R T U V W X Z P E M ethod Refere (1) (2)	Laboratory Fortified  Pale planations  Inples  Idified Matrix  I(Curl):  Analyte detected in a Analysis exceeded in Analyte concentration Poor spike recovery High Relative Perceion Analyte was analyze High blank data access poor recovery for Sil Quality contreol same Poor spike recovery Analyte concentration Analyte Concentratio	Verifies that there is not Verifies the accuracy of Verifies the precision of Determines sample management of the precision of Determines sample management of the precision of Determines sample management of the precision of th	PBW or or minimal contamination of the method, including the first the instrument and/or reatrix interferences, if any even MDL and PQL er spike in the set fell with ed because sample conceed indicated MDL contration is 10 times high ted because Silver often the concentration is four the concentration of Organic Compountation of Organi	Prep Blank - Water  on in the prep method procedure.  the prep procedure.  method.  In the given limits.  the entrations are less than 10x the MDL.  ther than blank concentration  precipitates with Chloride.  In the given limits.  The standard specific concentration  precipitates with Chloride.  In the given limits.  The standard specific concentration.	
LFB  Grant Lord Blanks Control Sar Duplicates Spikes/Fort Control R H J R T U V W X Z P E M Control Co	Laboratory Fortified  Pale planations  Inples  Iffied Matrix  (Cust)  Analyte detected in a Analysis exceeded in Analyte concentration Poor spike recovery High Relative Percet Analyte was analyze High blank data acce Poor recovery for Sil Quality contreol sam Poor spike recovery Analyte concentration Analyte concentration Analyte concentration Analyte concentration EPA 600/4-83-020. EPA 600/4-90/020. EPA 600/R-92/129. EPA SW-846. Test Standard Methods for	Verifies that there is not Verifies the accuracy of Verifies the precision of Determines sample must be accurately of the Determines sample must be accepted because the other than Difference (RPD) accepted for but not detected at the accepted because sample concepted because sample concepted because sample concepted because sample is out of control, is accepted because sample in differs from second detects in is estimated due to result in is estimated due to matrice.  Methods for Chemical Ana Methods for the Determinar Methods for the Determinar Methods for Evaluating Solor the Examination of Water	PBW or or minimal contamination of the method, including to the instrument and/or reatrix interferences, if any een MDL and PQL er spike in the set fell with ed because sample conce indicated MDL centration is 10 times highted because Silver often the concentration is four the tor by more than 40%. It exceeding calibration raix interferences.  Lysis of Water and Waster tion of Organic Compountion of Organic Compounties Organic Compo	Prep Blank - Water  on in the prep method procedure. the prep procedure. Inethod.  In the given limits. In the given limits. In the many less than 10x the MDL. In the than blank concentration In the greater than spike concentration. In the given limits. In the	
LFB  GENUTO IV Blanks Control Sar Duplicates Spikes/Fort  ACTUALITIES B H J R T U V W X Z P E M CINO REGUE (1) (2) (3) (5) (6)	Laboratory Fortified  pa(Explanations)  mples  iffied Matrix  ((Ctref))  Analyte detected in a Analysis exceeded in Analyte concentration Poor spike recovery High Relative Percei Analyte was analyze High blank data acce Poor recovery for Sill Quality contreol same Poor spike recovery Analyte concentration EPA 600/4-83-020.  EPA 600/4-90/020.  EPA 600/R-92/129.  EPA SW-846. Test Standard Methods for the Standard Metho	Verifies that there is not Verifies the accuracy of Verifies the precision of Determines sample manager of the Amager of the Ama	PBW or minimal contamination of the method, including to of the instrument and/or reatrix interferences, if any even MDL and PQL er spike in the set fell with ed because sample conce indicated MDL centration is 10 times high ted because Silver often the concentration is four tictor by more than 40%. It exceeding calibration raise interferences.  Lysis of Water and Waster tion of Organic Compoundation of Organic Compou	Prep Blank - Water  on in the prep method procedure. the prep procedure. Inethod.  In the given limits. In the given limits. In the many less than 10x the MDL. In the than blank concentration In the greater than spike concentration. In the given limits. In the	

REPIN03.11.00.01

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



Burlington Resources, Inc.

ACZ Project ID: L46371

A PER ID	WORKNUM	PARAMETER (7)	THE MELLOD	. (QUAL	DESCRIPTION :
L46371-01	WG174234	m p Xylene	M80218 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.
L46371-02	WG174234	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.
L46371-03	WG174234	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.
L46371-04	WG174234	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.
L46371-05	WG174234	m ρ 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.
L46371-06	WG174234	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.
L46371-07	WG174234	Benzene	M8021B GC/PID	V8	Calibration verification recovery was below the method control limit for this analyte, however the average % difference or % drift for all the analytes met method criteria.
L46371-08	WG174234	Benzene	M8021B GC/PID	V8	Calibration verification recovery was below the method control limit for this analyte, however the average % difference or % drift for all the analytes met method criteria.
L46371-10	WG174234	Benzene	M8021B GC/PID	V8	Calibration verification recovery was below the method control limit for this analyte, however the average % difference or % drift for all the analytes met method criteria.
L46371-11	WG174234	Benzene	M8021B GC/PID	V8	Calibration verification recovery was below the method control limit for this analyte, however the average % difference or % drift for all the analytes met method criteria.

EXTQUAL.11.20.02.01

L46371: Page 14 of 17



Burlington Resources, Inc.

MISC SAMPLING

ACZ Project ID: Date Received:

L46371 6/24/2004

Received By:

#### Receipt Verilieation

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

YES	NO	NA
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		X

#### Exceptions (If you answered no to any of the above questions please describe)

N/A

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

N/A

#### Shiping Contained

Cooler Id		Temp (°C)	Rad (µR/hr)	
ACZ		1.6	15	
	+			
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Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.



**Burlington Resources, Inc.** 

MISC SAMPLING

ACZ Project ID: Date Received:

L46371 6/24/2004

Received By:

### SampleContainer(Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	Y < 2	YG< 2	B < 2	BG< 2	0 < 2	T >12	P >12	N/A	RAD
L46371-01	MW-1 HAMPTONS										Ö	
L46371-02	MW-15 HAMPTONS										Ö	
L46371-03	MW-9 HAMPTONS								<u> </u>		Ö	
L46371-04	MW-16 HAMPTONS										Ö	
L46371-05	MW-12 HAMPTONS					-					Ö	
L46371-06	SEEP HAMPTONS										Ö	
L46371-07	MW-5 HAMPTONS										Ö	
L46371-08	TMW-1 HAMPTONS										Ö	
L46371-09	MW-7 HAMPTONS										Ö	
L46371-10	MW-11 HAMPTONS								,		Ö	
L46371-11	TRIP BLANK 061104-03										Ö	
Sample @	ontainer,Preservation,Legen	d .										

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Sample	f Constant	11 8 7 2 1 6 4 7 4	STATE OF THE PARTY OF	111010111	Y . 1 . 1 . 1 4 2:02000
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Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 3
В	Filtered/Sulfuric	BLUE	pH must be < 2
BG	Filtered/Sulfuric	BLUE GLASS	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
0	Raw/Sulfuric	ORANGE	pH must be < 2
Р	Raw/NaOH	PURPLE	pH must be > 12
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Υ	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

REPAD.03.11.00.01

L46371: Page 16 of 17

# ALZ Laboratories, Inc.

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

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SAMPLE IDENTIFICATION	DAT	Ē:TIME:	Matrix		81								
MW-1 Hampton	42904	1900	GW	9	1								
MW-15 Hampton	popero	1435	GW	9	V								
MW-9 HampTON	409690	1315	GW	Ĵ	V							]	
MW-16 Hampton	1092904	1405	gW	9⁄	~								
MW-12 Hampton	092904	1450	GW	2	V								
SEED Hampion	092904	1458	SW	9	V			Tagent .					
MW-5 Hampton	092904	1530	GW	9	. 1								
TMW-1 Hampton	092904	1550	aw	9	V								
MW-7 HAMPTON	092904	1610	aw	9	~				· · · · · · · · · · · · · · · · · · ·				
mw-11 Hampron	092904	1700	aw	9	r								
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Matrix SW (Surface Water) · GW	(Ground Water)	•	iter) · Dvv	(Dunking	vvater)	J. 7.	1. 61.60	) (SOII) ·	OL (OII)	Other (S	pecity)		
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Location:_Haraject Mana Project Mana Depth to Wa Water Colum	Project No.:30003.0 Project Name: Groundwater sampling Client: Burlington Resources  Location: Hampton 4M Well No: Seep Development Sampling  Project Manager MJN Date 9/29/04 Start Time 1458 Weather rain 70s  Depth to Water na Depth to Product na Product Thickness na Measuring Point TOC  Water Column Height na Well Dia  Sampling Method: Submersible Pump Centrifugal Pump Peristaltic Pump Other												
Bottom Valve Bailer x Double Check Valve Bailer Stainless-Steel Kemmerer Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other or bail dry													
Gal/ft x ft of water Gallons Ounces Gal/oz to be removed													
Time (military)	pH (su)	1	SC nos/cm)	Temp (°F)	ORP (millivo		D.O. (mg/L)	Turbidit (NTU)		Vol Eva (oz)	ic.	Comments Flow rate	
	(military)         (su)         (umhos/cm)         (°F)         (millivolts)         (mg/L)         (NTU)         (oz)         Flow rate												
Final: Time ph	H S	С	Temp	Eh-ORP	D.O.	Tu	rbidity	Ferrous Iron	Vo	ol Evac.	Comr	nents/Flow Ra	te
COMMENTS	S: seep w	ater v	vas clear	, collected (	grab sam	ple							
Water Dispo	INSTRUMENTATION: pH Meter X Temperature Meter x  DO Monitor Other  Conductivity Meter X  Water Disposal onsite Sample ID Hampton 4M Seep Sample Time 1458  Analysis BTEX  MS/MSD BD BD Name/Time TB tb092104-02												

,												
Project No.:	30003	n D	roject Nar	ne: BR Gr	oundwater	Sampling	Client	Rurlington				
Location: :_			-	/ell No:N				Sampling	_			
Project Mar							•		Weather rain 70s			
-	-								easuring Point <u>TOC</u>			
Water Colu					<del></del>		<u></u>					
		J										
Sampling M	lethod:	Subme	rsible Pur	mp []	Centrifug	al Pump	] Perista	ltic Pump [	] Other □			
	Bottom Valve Bailer Double Check Valv⊡Bailer Stainless-Steel Kemr⊡erer											
Double Check valveballer Stainless-Steel Kemilerer												
Criteria: 3	to 5 C	asing Vo	olumes of	Water Rem	oval <b>X</b> sta	abilization o	f Indicator I	Parameters	X Other or bail dry			
Water Volume in Well												
Gal/ft x ft of water Gallons Ounces Gal/oz to be removed												
5.99 x 0.16 .96 2.88												
Time	pН		SC	Temp	ORP	D.O.	Turbidity		c. Comments/			
(military)	(su	) (um	nhos/cm)	(°F)	(millivolt	s) (mg/L)	(NTU)	( gal) Flow rate				
1513	3.3	3	3090	63.5				.25 black, hydrocarbon odor				
	3.5	1	3050	62.0				.5	black, hydrocarbon odor			
	2.99		3300	61.4				.75	black, hydrocarbon odor			
	3.0		2980	60.8				1	black, hydrocarbon odor			
	3.12	2	2940	60.4				1.25	well is bailing down			
<u>1522</u>	2.72	2	2940	60.6				1.5	well has bailed dry			
									]			
	<u></u>						<u> </u>					
Final:	-	·	T	1			Ferrous	· · · · · · · · · · · · · · · · · · ·				
Time p	н	sc	Temp	Eh-ORP	D.O.	Turbidity	Iron	Vol Evac.	Comments/Flow Rate			
	2.72	2940	60.6					1.5	well has bailed dry			
				<u> </u>								
COMMENT	CII	hailine e	4	· · · · · · · · · · · · · · · · · · ·								
COMMENT	o. well	pailing (	JOWN									
INSTRUME	NTATI	ON:	pH Meter	X			Ton	nperature Me	otor v			
1140 I TOWIL		<b>314</b> .	DO Mo				. Oth	-	OLGI A			
		Condu	ctivity Me		-		. 001	<u></u>	<del></del>			
Water Dispo	sal on		Cuvity ivie		- ID MW/-5	Sample Tir	ne 1530					
Analysis		ľEX	<del></del>	Jampa	<u></u>	Sample III						
			RD		P	D Name/Tir	ne		TR +h092104_02			
1410/1410D	IS/MSD BD BD Name/Time TB_tb092104-02_											

Project No.:30003.0 Project Name: Groundwater sampling Client: Burlington Resources														
				ell No: T	-				="		Sampling			
Project M		~_~~				9/2	9/04 Sta	rt Time 1			her cloudy 70s			
Depth to \											uring Point TOC			
1 .			-	II Dia		_					<u> </u>			
		<u> </u>												
Sampling	Method:	Subme	rsible Pur	mp 🗌	Centrit	fugal	Pump [	] Perista	ltic Pump		Other			
Bottom Va	alve Bail	er x			Double (	Chec	k Valve B	ailer 🛚	Stainles	s-Ste	el Kemmerer			
Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other_or bail dry														
Water Volume in Well														
	t x ft of v			Gallons				Ounces			Ounces to be removed			
	0.52 x 16	· · · · · · · · · · · · · · · · · · ·		.08				10.65		<u> </u>	31.95			
-														
Time (military)	pH (su	<b>I</b>	SC nhos/cm)	Temp (°F)	OR (milliv		D.O. (mg/L)	Turbidit (NTU)	· · · · · · · · · · · · · · · · · · ·					
1543	5.0		2860	59.7	(mine)	Oito)	(1119/12)	(1110)	10 blackish, odor					
1 <u>547</u>	4.89		2800	60.1	ļ				12 blackish, odor					
1047	7.0								Diackish, out					
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Final:	-LJ	00	Tamp	EL OPP	00	) <sub>T</sub>	ebidit.	Ferrous	Vol Ever		enaments/Flave Data			
Time 1217	рН <b>5.60</b>	SC 2860	71.0	Eh-ORP	D.O.	<u>ı u</u>	rbidity	Iron	Vol Evac 0.13		omments/Flow Rate			
	0.00			]					5.10	"	on had build domii			
_	*									_				
COMMEN	TS:													
INSTRUM	ENTATI	ON:	pH Meter	Х				Ten	nperature	Mete	r x			
			DO Mo	nitor				Oth	er					
		Condu	ctivity Met	ter X										
Water Dis	posalc		-	na na			Samp	le Time <u> </u>	1550					
Analysis		ΓEX	•				·							
_			BD			BD	Name/Tir	ne			TB_tb092104-02			
,	MS/MSD BD BD Name/Time TB_tb092104-02_													

Location: Ha Project Mana Depth to Wat Water Colum Sampling Me	Project No.: 30003.0 Project Name BR Groundwater Sampling Client: Burlington  Location: Hampton 4M Well No: MW-7 Development Sampling  Project Manager MJN Date 9/29/04 Start Time 1600 Weather cloudy 70s  Depth to Water 20.12 Depth to Product na Product Thickness: na Measuring Point TOC  Water Column Height 0.08 Well Dia. 2"  Sampling Method: Submersible Pump □ Centrifugal Pump □ Peristaltic Pump □ Other □  Bottom Valve Bailer Double Check Valv □ Bailer Stainless-Steel Kemr□ erer  Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other or bail dry												
Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other or bail dry													
Gal/ft x ft of water Gallons Ounces Ounces to be removed													
	x 0.16			0.01			1.64		4.92				
				<del></del> <u>-</u> -									
Time (military)	pH (su)	1	SC os/cm)	Temp (°F)	ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Eva ( oz)					
1605	2.76 3200 58.8 6 clear, black												
<u>1609</u>	3.0	3:	340	59.6				7 well has baile					
Final: Time 1609	Time pH SC Temp Eh-ORP D.O. Turbidity Vol Evac. Comments/Flow Rate												
	COMMENTS: well bailing down  INSTRUMENTATION: pH Meter X Temperature Meter x  DO Monitor Other												
Analysis	·												

Project No.: 30003.0 Project Name BR Groundwater Sampling Client: Burlington  Location: Hampton 4M Well No: MW-9 Development Sampling														
. –	•			· · · · · · · · · · · · · · · · · · ·				elopment						
Project Man											Weather <u>rain 70s</u>			
Water Colur							oduct i nit	ckness. <u></u>	na	we	asuring Point <u>TOC</u>			
Sampling M	Sampling Method: Submersible Pump													
Bottom Valve Bailer Double Check Valv□Bailer Stainless-Steel Kemr□erer														
Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other or bail dry														
Gal/ft x ft of water Gallons Ounces Gal/oz to be removed														
											5.67			
					<del></del>		<del></del> -	<u>-</u> .						
Time pH SC Temp ORP D.O. Turbidity Vol Evac. Comments/ (military) (su) (umhos/cm) (°F) (millivolts) (mg/L) (NTU) (gal) Flow rate														
1252	6.79		3860	57.4	(minvoi	(5)	(mg/L)	(1410)		.25	light brown			
1232	6.80		3860	57.9						.5	light brown			
	6.89		4000	58.0						.75	light brown			
*	6.59		3760	58.1						1.75	light brown			
	<u> </u>													
	6.60		3940	58.1						2.75	light brown			
	6.61		4010	58.0						4.75	light brown			
	6.60		4030	58.1						5	light brown			
	6.61	4	4000	57.9	Ì					5.25	light brown			
<u>1309</u>	6.60		4000	58.0						5.5	light brown			
		74-11-11	1	<del></del>				Ferrous	Γ.	<del></del>				
<b>Final:</b> Time pl	H	sc	Temp	Eh-ORP	D.O.	Tu	rbidity	Iron	Vo	ol Evac.	Comments/Flow Rate			
	6.60	4000	58.0		<u> </u>		. Druny			5.5	light brown			
				l										
COMMENT	S:						. ,.			<u>.</u>				
INSTRUME	INSTRUMENTATION: pH Meter X Temperature Meter x													
			DO Mo					Oth	-					
Motor Dian-			ctivity Met				omele Ti-	mo 1345						
Water Dispo	BTEX		<del></del>	Sample	פוט <u>ועועץ-;</u>	<u> </u>	ampie ili	ne <u>1315</u>	<u>,                                    </u>	<del></del>				
MS/MSD	•													

Location: H Project Mar Depth to W Water Colu	Project No30003.0										
Bottom Valv	Bottom Valve Bailer X Double Check Valve Bailer □ Stainless-Steel Kemmerer □										
Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other or bail dry											
Water Volume in Well											
Gal/ft	x ft of wa	ater		Gallons			Ounces		Gal/oz to be removed		
15.48x 0.16 2.53 7.58									7.58		
T:			<u></u>	Torre	ODE	150	Translation	Val Fire	Comments		
(military)	Time pH SC Temp ORP D.O. Turbidity Vol Evac. Comments/ (military) (su) (umhos/cm) (°F) (millivolts) (mg/L) (NTU) (gal) Flow rate										
1628	8 4.2 1950 58.2 0.25 clear										
	4.65		1970 57.8 0.5 clear brown								
	5.54		1950 58.0 0.75 clear brown								
	6.16		1920 58.3 5.5 clear brown								
	6.17		1970	58.1	,			7.5	clear brown		
	6.19		1920	57.7				7.75	clear brown		
<u>1656</u>	6.20		1940	57.9				8.0	clear brown		
	·		<del></del>								
Final:			1								
		SC	Temp	Eh-ORP	D.O.	Turbidity	Vol Evac.	Comments/F			
<u>1656</u>	6.20	1940	57.9				8.0	clear brown			
				. <u> </u>							
COMMENT	S: Pump	deplet	ting well								
					<del></del>				····		
INSTRUME	NTATIO	N:	pH Meter	X		<del> </del>	_ Tem	perature Mete	er x		
		Condi	DO Mo				_ Othe	er			
			ctivity Met				<u>-</u>				
Water Dispo				Sample	e ID MW-1	I1 Sample T	ime <u>1700</u>	)			
Analysis	<u>BT</u>	<u>EX</u>									
MS/MSD	MS/MSD BD BD Name/Time TB_tb092104-02										

Project No. Location:H Project Ma Depth to W Water Colu	amptor nager /ater umn He	20 eight	MJN 0.28 1 11.7	Well Der	No: <u>MV</u>  oth to Produ II Dia	V-12 Date_ uct _na 2"	9-2 Pro	Developed Develo	elopment Start T ckness:r	Samp ime1 na	ling 415 Meas	Weather <u>rain 70s</u> suring Point <u>TOC</u> Other □
Oamping i	netriod				•	OCHUIN		. –	-		. –	<del>_</del>
Bottom Valve Bailer Double Check Valv□Bailer Stainless-Steel Kemr⊡rer  Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other_or bail_dry												
0-1/6					Callana		<u>/olum</u>	ne in Wel				Callanta ha assessed
	x ft of y .79x 0.		<u> </u>		Gallons 1.89				Ounces			Gal/oz to be removed 5.66
Time (military)	pH (su	1	(uml	SC hos/cm)	Temp (°F)	ORI (millivo		D.O. (mg/L)	Turbidit (NTU)	•	Evac. gal)	Comments/ Flow rate
1424	5.8	3	1	1950	58.4						.25	black, clear, strong hydrocarbon odor
	5.8	8	2	2130	58.7						.5	black, clear, strong hydrocarbon odor
	5.2	5	2	2220	58.1						.75	black, clear, strong hydrocarbon odor
	5.8	3	2	2270	58.7						3.75	black, clear, strong hydrocarbon odor
	5.8	3	2	2240	58.5						4.2	black, clear, strong hydrocarbon odor
	5.8	0	2	2270	58.7						1.75	black, clear, strong hydrocarbon odor
1443	5.8	0	2	2260	58.1						5.25	black, clear, strong hydrocarbon odor
•												
Finals		_				1		1	Ferrous			
Final:	Н	sc		Temp	Eh-ORP	D.O.	Tu	rbidity	Iron	Vol Ev	ac.	Comments/Flow Rate
1443	5.80	22	260	58.1						5.2	1	olack, clear, strong sydrocarbon odor
COMMENT	S:											
									<del></del>			
INSTRUME	INSTRUMENTATION: pH Meter X  DO Monitor  Temperature Meter x  Other											
	Conductivity Meter X											
Water Disp	osal <u>or</u>					e ID MW	- <u>12</u>	Sample T	ime <u>    145</u>	8		
Analysis	Analysis <u>BTEX</u>											
MS/MSD_				BD_		<del></del>	BD I	Name/Tir	ne			TB_tb092104-02

	Project No30003.0 Project Name BR Groundwater Sampling Client: Burlington  Location: Hampton 4M Well No: MW-15 Development Sampling										
	•						•	<u>Sampling</u>			
Project Man									Weather70s		
1 *					_	Product Thi	ckness: <u>n</u>	<u>a</u> Mea	suring Point <u>TOC</u>		
Water Colu	mn Heig	ht <u>8.9</u>	<u>6</u> We	II Dia	_2"						
Sampling M	lethod:	Subme	rsible Pur	np 🗆	Centrifug	al Pump	] Peristal	tic Pump 📋	Other		
Bottom Valve Bailer X Double Check Valve Bailer   Stainless-Steel Kemmerer											
Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other <u>or bail dry</u> Water Volume in Well											
Colff	v ft of w	otor		Gallons		lume in Wel	Ounces		Gal/oz to be removed		
	x ft of w 6 x 0.10			1.43			Ounces		4.30		
0.00									4.00		
Time	рН		SC	Temp	ORP	D.O.	Turbidity	Vol Evac	Comments/		
(military)	(su)	(um	hos/cm)	(°F)	(millivolt		1	( gal)	Flow rate		
1211	5.9		4820	59.3				.25	clear		
	5.81		4240	60.1	,			.5	cloudy		
	5.61		4250	60.2	-			.75	cloudy		
	5.65		4160	60.2				2	cloudy		
	5.32		4140	60.1				3	cloudy		
	5.41		4120	60.2				4	cloudy		
4004	5.40		4130 4040	60.2	ļ			4.25	cloudy		
<u>1231</u>	5.38		1210	60.3				4.5	cloudy		
Final:			T	<u> </u>			Ferrous	* 1			
Time pl	н	sc	Temp	Eh-ORP	D.O.	Turbidity	Iron	Vol Evac.	Comments/Flow Rate		
	5.38	4210	60.3						cloudy		
					·	······································					
COMMENT	<b>S</b> :										
	NIT A TIC										
INSTRUMENTATION: pH Meter X Temperature Meter x											
DO Monitor Other Conductivity Meter X											
Water Dispo					e ID <u>M</u> W-1	5 Sample T	- 「ime123	5			
Analysis	Analysis BTEX										
•	MS/MSD BD BD Name/Time TB <u>tb092104-02</u>										

, ,				-	ne: <u>BR Gro</u>							
Location:					No: <u>MV</u>				•	Sampling	-	
Project M												Weather rain 70s
Depth to \						_	_ Pro	oduct Thic	ckness: <u>r</u>	<u>na                                     </u>	leas	uring Point <u>TOC</u>
Water Co	lumi	n Heig	tht <u>6.8</u>	<u>84</u> We	ll Dia	4"	_					
Sampling	Met	thod:	Subme	ersible Pur	mp 🗆	Centrif	ugal	Pump 🗆	] Perista	Itic Pump		Other
Bottom Valve Bailer X Double Check Valve Bailer												
Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other_or bail_dry												
Water Volume in Well												
		ft of w			Gallons				Ounces			Gal/oz to be removed
6	3.81	x 0.6	5,		4.43		1					13.28
L				<u> </u>								
Time		рН		SC	' Temp	ORI	D	D.O.	Turbidit	v Vol Ev	20	Comments/
(military)	,	(su)	(un	nhos/cm)	(°F)	(millivo		(mg/L)	(NTU)	•		Flow rate
					57.2	<u> </u>		, ,	· ` /			
1348		6.11		2490	57.2					1		clear strong hydrocarbon odor
		8.40		2680	57.5					2		blackish gray
		8.3		2560	57.9	<u> </u>				3		blackish gray
									· · · · · · · · · · · · · · · · · · ·			
		7.45		2540	57.7					4		blackish gray
		6.5		2770	57.8					4.5		blackish gray
		6.57		2700	57.8					5		well is bailing down
1359		6.5		2730	57.6					5.5		well has bailed dry
	-				<u> </u>							
					<u> </u>	L						
F===== 1=					1	T	<del>                                     </del>		Ferrous			
Final: Time	μЦ		SC	Temp	Eh-ORP	D.O.	<sub>T.,</sub>	rbidity	Iron	Vol Evac.		omments/Flow Rate
1359	6.	5	2730	57.6	LII-OIXF	0.0.	Tu	rolalty	11011	5.5		ell has bailed dry
1000	•										"	on nuo nunou ury
COMMEN	ITS:	well	pailed o	dry								
INSTRUM	INSTRUMENTATION: pH Meter X Temperature Meter x											
	DO Monitor Other											
			Condu	ctivity Met	ter X			<del></del>	<u>-</u>			
Water Dis	pos	al <u>ons</u>	ite		Sample	e ID <u>MW</u>	<u>-16</u> \$	Sample T	ime <u>140</u>	5		
Analylsis		<u>BT</u>	'EX									
MS/MSD_				BD_			BD	Name/Tir	ne			TB_tb092104-02

ALZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

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Report to San Fall Fall Fall Fall Fall Fall Fall Fa												
Name: GREGG WUT	アモ			Addre	ss: 3	401	PAS	30	TH	<u>ST.</u>	<u></u>	
Company: Ruducton P	ESOUCO	2		FAR	MIN	910N			374	99		
E-mail:		<u></u>	i	Telep	hone:	505	36	16	700			
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Name:				E-mai	1:	· · ·		***·				****
Company:			1	Telep	hone:	-						
Invoice to:		a said	*	no sale	Garage Control	1	, 1 <sup>1</sup> 0,		A.	Term .	<b>1</b>	
Name: SAME	TO SERVE WITH THE	1000		Addre	SS:		730 BK	-1. A: 1. €	5 - 5 # 1		rist em . ?	
Company:	<del></del>		ĺ	7.134.19					-	<del></del>		
E-mail:			1	Telepl	 hone:							
PROJECTINFORMATION	1.001.00		1	<u> </u>		เดิสส	esten'	Čatřačí	dist or	ileo que	ote nun	i Godi
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Tracking #:				of Containers								
Reporting State for compliance	testing.			**	TY I							
SAMPLECIDENTIFICATION	DAT	ETIME	Matrix		BTEX				ļ			
MW-1 Hampton	49904	1900	gw.	9							_	
MW-15 Hampton	092904	1932	GW	9	V				<b></b>			
MW-9 Hampton	092904	1315	GW	Ĵ	V						_	
MW-16 Hampton	092904	1405	gw	3x	~							
MW-12 Hampron	092904	1450	GW	٦	v							
SEED HOLLDOW	092904	1458	<b>SW</b>	a	V							
MW-5 Hampton	092904	1\$30	GW	9	V							
TMW-1 HOMPTON	092904	1550	aw	Э	V							
MW-7 HAWDTON	092904	1610	aw	ð	V							
MW-11 Hampron	092904	1700	aw	6	r							
T8092104-02 TRIP	Blank			1								
					<u> </u>				<u> </u>			
Matrix SW (Surface Water) · GW	(Ground Water)	· WW (Waste Wa	ater) · DW	(Drinkin	g Water)	· SL (Slu	dge) · S(	O (Soil) ·	OL (Oil)	Other (	Specify)	
REMARKS	today of the second			<b>1</b>	. W					Page.		
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of the second of the second		J					***	· · · <u>· · · · · · · · · · · · · · · · </u>		8 64	<u>المرافرة وال</u>	
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,	1			1 `	$\sim$							

and the transfer of the first





October 14, 2004

Report to:
Gregg Wurtz
Burlington Resources, Inc.
3401 E. 30th St. PO BOX 4289
Farmington, NM 87402-4289

Bill to:
Gregg Wurtz
Burlington Resources, Inc.
3401 E. 30th St. PO BOX 4289
Farmington, NM 87402-4289

Project ID:

ACZ Project ID: L48067

Gregg Wurtz:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 01, 2004. This project has been assigned to ACZ's project number, L48067. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan, version 10.0. The enclosed results relate only to the samples received under L48067. 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 November 14, 2004. 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.

14/Oct/04

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







2773 Downhill Drive Steamboat Springs, CO 8048: (800) 334-5493

Case Nemadive

Burlington Resources, Inc.

October 14, 2004

Project ID:

ACZ Project ID: L48067

#### Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 11 ground water samples from Burlington Resources, Inc. on October 1, 2004. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L48067. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

#### Holefing Ulines

All analyses were performed within EPA recommended holding times.

#### Sample Analysis

These samples were analyzed for organic parameters. The individual methods are referenced on both, the ACZ invoice an the analytical reports. The following anomaly required further explanation not provided by the Extended Qualifier Report:

1. For sample numbers flagged with an "N1", the sample that was spiked had many late eluting compounds. These compounds interfered with the spike recovery for Ethylbenzene and mp Xylene.

REPAD.02.11.00.01 L48067: Page 2 of 18

6. (800) 334-5493 **Secure** 

Burlington Resources, Inc.

Analysis Method:

Extract Method:

Project ID:

Sample ID:

SEEP HAMPTON

Locator:

ACZ Sample ID: L48067-06

Date Sampled: 09/29/04 14:58

Date Received:

10/01/04

Sample Matrix:

Ground Water

Benzene, Toluene, Zihylbenzene &Xylene

Method

M8021B GC/PID

Analyst: km

Extract Date:

10/07/04 14:16

Analysis Date:

10/07/04 14:16

Dilution Factor: 1

Compound

Compound	ÇAS - Reguld	OUAL M	Olite C	MOL	POL
Benzene	000071-43-2	U	ug/L	0.3	1
Ethylbenzene	000100-41-4	U	ug/L	0.2	1
m p Xylene	01330 20 7	U	ug/L	0.4	2
o Xylene	00095-47- 6	U	ug/L	0.2	1
Toluene	000108-88-3	U	ug/L	0.2	1

Suicceio	<b></b>	%Recovery	्यांतर १०००	rar	ngr
Bromofluorobenzene	000460-00-4	95.5	%	83	117

# Laboratories, Inc.

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

**Burlington Resources, Inc.** 

Analysis Method:

Extract Method:

Project ID:

Sample ID:

MW-1 HAMPTON

Locator:

ACZ Sample ID: L48067-01

Date Sampled:

09/29/04 12:00

Date Received:

10/01/04

Sample Matrix:

Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Method

M8021B GC/PID

Analyst: km

Extract Date:

10/06/04 21:01

Analysis Date:

10/06/04 21:01

Dilution Factor: 1

Compound

(Compound)	PAS Resil	n: - OVAL XC	early (	(MDL	(LOF
Benzene	000071-43-2	U	ug/L	0.3	1
Ethylbenzene	000100-41-4	U *	ug/L	0.2	1
m p Xylene	01330 20 7	U *	ug/L	0.4	2
o Xylene	00095-47- 6	U	ug/L	0.2	1
Toluene	000108-88-3	U	ug/L	0.2	1

Supposts 4	@A6	%Reducty =	OMU OX	rar	<u>nor</u>
Bromofluorobenzene	000460-00-4	89.3	%	83	117

2773 Downhill Drive Steamboat Springs, CO 80487

(800) 334-5493

Burlington Resources, Inc.

Analysis Method:

Extract Method:

Project ID:

Sample ID:

**MW-5 HAMPTON** 

Locator:

ACZ Sample ID: L48067-07

Date Sampled:

09/29/04 15:30

Date Received:

10/01/04

Sample Matrix:

Ground Water

Benzane, Toluene, Bihylbenzene CX. ylene

Method

M8021B GC/PID

Analyst: km

Extract Date: Analysis Date: 10/07/04 15:00

10/07/04 15:00

Dilution Factor: 50

Compound

(Compound)	<b>@</b> .6	Result	envr zo nine i	JDP.	<b>LOL</b>
Benzene	000071-43-2	1710	ug/L	20	50
Ethylbenzene	000100-41-4	670	ug/L	10	50
m p Xylene	01330 20 7	6380	ug/L	20	100
o Xylene	00095-47- 6	1710	ug/L	10	50
Toluene	000108-88-3	7250	ug/L	10	50

Suigeo	CAS	%Recovery.	<u> </u>	) (Mallo	[ri@r	ં 0.00 ા
Bromofluorobenzene	000460-00-4	100.7		%	83	117

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

## Organic Analytical Results

Burlington Resources, Inc.

Analysis Method:

Extract Method:

Project ID:

Sample ID:

TMW-1 HAMPTON

Locator:

ACZ Sample ID: L48067-08

Date Sampled: 09/29/04 15:50

Date Received:

10/01/04

Sample Matrix: Ground Water

Benzene Toluene, Ethylbenzene & Xylene,

Method

M8021B GC/PID

Analyst:

km

Extract Date:

10/07/04 15:43

Analysis Date:

10/07/04 15:43

Dilution Factor: 2.5

Compound

Gompound	CAS	Result C	WAL XQ Units	MOL	्राध्य
Benzene	000071-43-2	410	* ug/L	8.0	3
Ethylbenzene	000100-41-4	59.6	* ug/L	0.5	3
m p Xylene	01330 20 7	454	* ug/L	1	5
o Xylene	00095-47- 6	4.5	* ug/L	0.5	3
Toluene	000108-88-3	8.7	* ug/L	0.5	3

Surrogate	CAS CONTRACTOR	% Recovery	XQ Vijits	FGF:	<b>DOP</b>
Bromoflyorohenzene	000460-00-4	101 3	0/_	83	117

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

Organic Analytical | Results

**Burlington Resources, Inc.** 

Analysis Method:

Extract Method:

Project ID:

Sample ID:

MW-7 HAMPTON

Locator:

ACZ Sample ID: L48067-09

Date Sampled: 09

09/29/04 16:10

Date Received:

10/01/04

Sample Matrix:

ix: Ground Water

Banzana, Toluana, Ethylbanzana & Xylana

Method

M8021B GC/PID

Analyst: km

Extract Date:

10/08/04 6:40

Analysis Date:

10/08/04 6:40

Dilution Factor: 2

Compound

Compound .	POS.	ं दिए गाँ।		MOC	(POF
Benzene	000071-43-2	163	ug/L	0.6	2
Ethylbenzene	000100-41-4	54.5	ug/L	0.4	2
m p Xylene	01330 20 7	27.8	ug/L	0.8	4
o Xylene	00095-47- 6	42	ug/L	0.4	2
Toluene	000108-88-3	0.9	J ug/L	0.4	2

Surce	<b>(949</b> )	%Recovery	(Min) (M)	TEGF	. Nor
Bromofluorobenzene	000460-00-4	112.5	%	83	117

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

Burlington Resources, Inc.

Analysis Method:

Extract Method:

Project ID:

Sample ID:

MW-9 HAMPTON

Locator:

ACZ Sample ID:

L48067-03

Date Sampled:

09/29/04 13:15

Date Received:

10/01/04

Sample Matrix:

Ground Water

Benzene, Voluene, Minylbenzene & Xylene.

Method

M8021B GC/PID

Analyst: km

Extract Date: Analysis Date:

10/07/04 11:25 10/07/04 11:25

Dilution Factor:

Compound

Gombonng	GAS RESULT	OUAL X	enno e	Mor	POL
Benzene	000071-43-2	U	ug/L	0.3	1
Ethylbenzene	000100-41-4	U	ug/L	0.2	1
m p Xylene	01330 20 7	U	ug/L	0.4	2
o Xylene	00095-47- 6	U	ug/L	0.2	1
Toluene	000108-88-3	U	ug/L	0.2	1

Suatogelo	CAS/	%Recovery	: 10 Dyna	LGL	(her
Bromofluorobenzene	000460-00-4	94.1	%	83	117

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

Burlington Resources, Inc.

Analysis Method:

Extract Method:

Project ID:

Sample ID:

MW-11 HAMPTON

Locator:

ACZ Sample ID: L48067-10

Date Sampled:

09/29/04 17:00

Date Received: Sample Matrix:

10/01/04

Ground Water

Benzene, Toluene, Ethylbenzene & Xylene.

Method

M8021B GC/PID

Analyst: km

Extract Date: Analysis Date:

10/07/04 17:52 10/07/04 17:52

Dilution Factor:

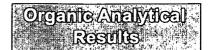
Compound

Compound	GVE Fresili	QUAL X	Olido (	Mor	POL
Benzene	000071-43-2	U	ug/L	0.3	1
Ethylbenzene	000100-41-4	U	ug/L	0.2	1
m p Xylene	01330 20 7	U	ug/L	0.4	2
o Xylene	00095-47- 6	U	ug/L	0.2	1
Toluene	000108-88-3	U	ug/L	0.2	1

Suropeta	*	4%Recovery	Company or the control of the contro	, LOC	10GF
Bromofluorobenzene	000460-00-4	97.1	%	83	117

2773 Downhill Drive Steamboat Springs, CO 80487 (

(800) 334-5493



**Burlington Resources, Inc.** 

Analysis Method:

Project ID:

Sample ID:

MW-12 HAMPTON

Locator:

ACZ Sample ID: L48067-05

Date Sampled: 09/29/04 14:50

Date Received: 10/01/04

Sample Matrix: Ground Water

Benzane, Tolvene, Ethylbenzene & Xylene:

Method

M8021B GC/PID

Analyst: km

Doto: 101

Extract Date: Analysis Date:

10/07/04 13:33 10/07/04 13:33

Dilution Factor: 50

Extract Method:

Compound					
Gombound .	(4.5)	; Greatle ; ; ; G	WAL SO COM	MOP	POL
Benzene	000071-43-2	5140	ug/L	20	50
Ethylbenzene	000100-41-4	240	ug/L	10	50
m p Xylene	01330 20 7	970	ug/L	20	100
o Xylene	00095-47- 6	310	ug/L	10	50
Toluene	000108-88-3	2220	ug/L	10	50
Surregate Beenveries					

Surrogato .	<b></b>	skeevery	Oplie ,	TOP.	(VOL)
Bromofluorobenzene	000460-00-4	98.9	%	83	117

# Laboratories, Inc.

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

Burlington Resources, Inc.

Analysis Method:

Extract Method:

Project ID:

Sample ID:

**MW-15 HAMPTON** 

Locator:

ACZ Sample ID: L48067-02

Date Sampled:

09/29/04 12:35

Date Received:

10/01/04

Sample Matrix:

Ground Water

Cody & Seneral Will Second Constant

Method

M8021B GC/PID

Analyst: km

Extract Date: Analysis Date:

10/06/04 21:44 10/06/04 21:44

Dilution Factor:

Compound

@ompound	A COMPANY AND A	UD : COUAL-ΣΘ	Chille	Mor	ાભા
Benzene	000071-43-2	U	ug/L	0.3	1
Ethylbenzene	000100-41-4	U *	ug/L	0.2	1
m p Xylene	01330 20 7	U *	ug/L	0.4	2
o Xylene	00095-47- 6	U	ug/L	0.2	1
Toluene	000108-88-3	U	ug/L	0.2	1

Surcessory (Color of the Color
---

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

# Organie Analytica

**Burlington Resources, Inc.** 

Analysis Method:

Extract Method:

Project ID: Sample ID:

**MW-16 HAMPTON** 

Locator:

ACZ Sample ID:

L48067-04

Date Sampled:

09/29/04 14:05

Date Received:

10/01/04

Sample Matrix:

Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Method

M8021B GC/PID

Analyst:

km

Extract Date: Analysis Date: 10/07/04 12:50 10/07/04 12:50

Dilution Factor: 100

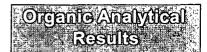
Compound

ල්ටාට්රගණ්ට	PAS COLOR	Gesult \$ 5 %		Mor	100
Benzene	000071-43-2	8330	ug/L	30	100
Ethylbenzene	000100-41-4	760	ug/L	20	100
m p Xylene	01330 20 7	6360	ug/L	40	200
o Xylene	00095-47- 6	1870	ug/L	20	100
Toluene	000108-88-3	14000	ug/L	20	100

Surrogate Recoveries

Surrogate 2000	CAS	% Recovery	xo und	LGL	1000
Bromofluorobenzene	000460-00-4	99.9	%	83	117

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



Burlington Resources, Inc.

Analysis Method:

Extract Method:

Project ID:

Sample ID:

TBO92104-02

Locator:

ACZ Sample ID: L48067-11

Date Sampled: (

09/29/04 0:00

Date Received:

10/01/04

Sample Matrix:

Ground Water

Benzene Toltiene Ethylbenzene & Xylene

Method

M8021B GC/PID

Analyst:

/st: *km* 

Extract Date:

10/07/04 18:35

Analysis Date:

10/07/04 18:35

Dilution Factor: 1

Compound

Compound	<b>94</b> 5. 4 7 4 1 1	enis 😽 - Grat Xo	. Viille	Mor	POL .
Benzene	000071-43-2	U	ug/L	0.3	1
Ethylbenzene	000100-41-4	U	ug/L	0.2	1
m p Xylene	01330 20 7	U	ug/L	0.4	2
o Xylene	00095-47- 6	U	ug/L	0.2	1
Toluene	000108-88-3	U	ug/L	0.2	1

Surcoate	GVG.	% Recovery	्र १७ क्षांप्र	FROR.	, ner
Bromofluorobenzene	000460-00-4	97.9	%	83	117

773 Downhill L	Laboratories, Inc.  Drive Steamboat Springs, CO 80487 (800) 334-5	493	Organie : : : : : : : : : : : : : : : : : : :								
Report Header	Explanations										
Batch	A distinct set of samples analyzed at a specific tir	ne									
Found	Value of the QC Type of interest										
Limit .	Upper limit for RPD, in %.										
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)										
LCL	Lower Control Limit										
MDL	Method Detection Limit. Same as Minimum Repo	orting Limit. Allows for	instrument and annual fluctuations.								
PCNISCN	A number assigned to reagents/standards to trace	e to the manufacturer's	certificate of analysis								
PQL	Practical Quantitation Limit										
QC	True Value of the Control Sample or the amount a	added to the Spike									
Rec	Amount of the true value or spike added recovered	d, in % (except for LC	SS, mg/Kg)								
RPD	Relative Percent Difference, calculation used for	Ouplicate QC Types									
Upper	Upper Recovery Limit, in % (except for LCSS, m	g/Kg)									
UCL	Upper Control Limit										
Sample	Value of the Sample of interest										
IC Sample Ty	pes										
SURR	Surrogate	LFM	Laboratory Fortified Matrix								
INTS	Internal Standard	LFMD	Laboratory Fortified Matrix Duplicate								
DUP	Sample Duplicate	LRB	Laboratory Reagent Blank								
LCSS	Laboratory Control Sample - Soil	MS/MSD	Matrix Spike/Matrix Spike Duplicate								
LCSW	Laboratory Control Sample - Water	PBS	Prep Blank - Soil								
LFB	Laboratory Fortified Blank	PBW	Prep Blank - Water								
	pe Explanations										
Blanks			on in the prep method procedure.								
Control Sar	·	<del>-</del>	• • •								
Duplicates	Verifies the precision of tified Matrix Determines sample mate										
Opikes/ron CZ Qualifiers		ix interferences, it arry									
В	Analyte detected in daily blank		是,但是,我们也是一种的。但是我们的一种,我们也是一种的一种。								
Н	Analysis exceeded method hold time.										
J	Analyte concentration detected at a value betwee	n MDL and PQI									
R	Poor spike recovery accepted because the other		nin the given limits.								
Т	High Relative Percent Difference (RPD) accepted		-								
U	Analyte was analyzed for but not detected at the i	·									
V	High blank data accepted because sample conce		her than blank concentration								
W	Poor recovery for Silver quality control is accepted	ŭ									
X	Quality contreol sample is out of control.										
Z	Poor spike recovery is accepted because sample	concentration is four ti	mes greater than spike concentration.								
Р	Analyte concentration differs from second detector	r by more than 40%.	·								
E	Analyte concentration is estimated due to result e	xceeding calibration ra	inge.								
М	Analyte concentration is estimated due to matrix i	nterferences.									
lethod Refere	inces										
(1)	EPA 600/4-83-020. Methods for Chemical Analys	sis of Water and Waste	es, March 1983.								
(2)	EPA 600/4-90/020. Methods for the Determination	n of Organic Compour	nds in Drinking Water (I), July 1990.								
(3)	EPA 600/R-92/129. Methods for the Determination	on of Organic Compour	nds in Drinking Water (II), July 1990.								
(5)	EPA SW-846. Test Methods for Evaluating Solid	Waste, Third Edition w	vith Update III, December, 1996.								
<ul> <li>(5) EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December, 1996.</li> <li>(6) Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995.</li> </ul>											
(0)	Standard Methods for the Examination of Water a										
(0) Comments	Standard Methods for the Examination of Water a		the figure of the Control of the Control of								
ALCOHOLOGICA CONTRACTOR CONTRACTO	QC results calculated from raw data. Results ma		unded values are used in the calculations.								

REPIN03.11.00.01

L48067: Page 14 of 18

Organic Extended

Qualifier Report

Burlington Resources, Inc.

ACZ Project ID: L48067

AGZ ID	#WORKNUM!	PARAMETER	METHOD	QUAL	DESCRIPTION
L48067-01	WG179312	Ethylbenzene	M8021B GC/PID	N1	See Case Narrative.
		m p Xylene	M8021B GC/PID	N1	See Case Narrative.
L48067-02	WG179312	Ethylbenzene	M8021B GC/PID	N1	See Case Narrative.
		m p Xylene	M8021B GC/PID	N1	See Case Narrative.
L48067-08	WG179364	Benzene	M8021B GC/PID	Q3	Sample received with improper chemical preservation.
		Ethylbenzene	M8021B GC/PID	Q3	Sample received with improper chemical preservation.
		m p Xylene	M8021B GC/PID	Q3	Sample received with improper chemical preservation.
		o Xylene	M8021B GC/PID	Q3	Sample received with improper chemical preservation.
		Toluene	M8021B GC/PID	Q3	Sample received with improper chemical preservation.



Sample Receipt

**Burlington Resources, Inc.** 

ACZ Project ID: Date Received:

L48067 10/1/2004

Received By:

Reed	Co. 18 Car 19	A	2.00	68 645 C
- V-V-Y-1	24 24 2 22	F-1119	V	
10 20 17 -11	4144.45	16111		

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

YES	NO	NA
		X
Х		
		Х
Х		10.00
X		
Х		
X		
Х		
Χ		
Х		
X		
Х		
		Х

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

N/A

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

N/A

### Shipping Containers

Cooler Id	Temp (°C	) Rad (µR/hr)
ACZ	5.2	14
	<del>                                     </del>	

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

rorea





**Burlington Resources, Inc.** 

ACZ Project ID: Date Received:

L48067 10/1/2004

Received By:

centings	Ontainer Preservation							4	25 2 d k			
SAMPLE	CLIENT ID	R < 2	G < 2	Y < 2	YG< 2	B < 2	BG< 2	0 < 2	T >12	P >12	N/A	RAD
L48067-01	MW-1 HAMPTON										Ö	
L48067-02	MW-15 HAMPTON										Ö	
L48067-03	MW-9 HAMPTON										Ö	
L48067-04	MW-16 HAMPTON										Ö	
L48067-05	MW-12 HAMPTON										Ö	
L48067-06	SEEP HAMPTON										Ö	
L48067-07	MW-5 HAMPTON										Ö	
L48067-08	TMW-1 HAMPTON										Ö	
L48067-09	MW-7 HAMPTON										Ö	
L48067-10	MW-11 HAMPTON										Ö	
	TBO92104-02										Ö	
Sample @	ontainer Preservation Legen	d.		4.01								

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
В	Filtered/Sulfuric	BLUE	pH must be < 2
BG	Filtered/Sulfuric	BLUE GLASS	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
0	Raw/Sulfuric	ORANGE	pH must be < 2
Р	Raw/NaOH	PURPLE	pH must be > 12
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Υ	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 μR/hr

REPAD.03.11.00.01

L48067: Page 17 of 18

Project No.:30003.0 Project Name: Groundwater sampling Client: Burlington Resources  Location: Hampton 4M Well No: Seep Development Sampling  Project Manager MJN Date 12/1304 Start Time 1315 Weather clear 30s  Depth to Water na Depth to Product na Product Thickness na Measuring Point TOC  Water Column Height na Well Dia. na  Sampling Method: Submersible Pump Centrifugal Pump Peristaltic Pump Other Depth Stainless-Steel Kemmerer  Bottom Valve Bailer x Double Check Valve Bailer Stainless-Steel Kemmerer											
Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other_or bail dry											
Gal/ft	Gal/ft x ft of water Gallons Ounces Gal/oz to be removed										
Time (military)	pH (su)	1	SC hos/cm)	Temp (°F)	ORP (millivo		D.O. (mg/L)	Turbidit (NTU)		I	
Final: Time p	H S	SC .	Temp	Eh-ORP	D.O.	Tur	bidity	Ferrous Iron	Vol Evac.	. Comments/Flow Rate	
COMMENT	S: seep v	vater v	was clear	collected (	grab sam	ple					
INSTRUMENTATION: pH Meter X Temperature Meter x Other Other Conductivity Meter X Sample ID_Hampton 4M Seep Sample Time 1315 Analysis BTEX BD BD_Name/Time TB											

Project No.:				Projec	t Name <u>B</u>	RG	roundwat	er Samplii	ng	Client:	Burlington		
Location: Ha				=	lo: MV					Development: Sampling			
Project Mana			<del></del>					Time_10		•			
1 -				-							uring Point TOC		
•	Depth to Water 43.41 Depth to Product na Product Thickness: na Measuring Point TOC  Water Column Height 6.09 Well Dia. 2"												
vvaler Column neight <u>6.09</u> vven Dia. <u>2</u>													
Sampling Me			sible Pun Valve Ba			_	•	Perista k Valv⊡Ba			Other □ ess-Steel Kemr⊡erer		
Criteria: 31	to 5 Casi	ng Vo	lumes of	Water Rem	oval X s	tabil	lization of	Indicator	Paramete	rs X	Other or bail dry		
						olum	ne in Well						
	ft of wat	er		Gallons				Ounces			Gal/oz to be removed		
6.13	x 0.16			$0.981 \times 3$	3						2.942		
			<u> </u>	<del></del>						<u> </u>			
Time	рН		SC	Temp	ORF	)	D.O.	Turbidit	v   Vol.1	Evac.	Comments/		
(military)	(su)	1	hos/cm)	(°F)	(millivo		(mg/L)	(NTU)	•	jal)	Flow rate		
					(**************************************	,	(g/	(1110)					
1045	5.65	}	3700 	52.1						25 	Clear		
	5.00	3	3770	53.6					٤. ا	50	Cloudy		
	5.10	3	3760	54.1						75	Cloudy		
	5.10	3	3760	54.0					1	.5			
	5.61	3	3810	54.3					2	.5			
<u>1100</u>	5.15	3	3790	54.0					3	.5			
										·-··			
		L			<u> </u>					<u> </u>			
r <del> </del>	<del></del>				7		· · · · · · · · · · · · · · · · · · ·	<u> </u>	<del></del>				
Final:	,   _	^		El: 000	D.C.	_	1	Ferrous					
Time ph		3 <b>790</b>	Temp	Eh-ORP_	D.O.	Tu	rbidity	Iron	Vol Evad	c.   Co	omments/Flow Rate		
<u>1100</u> 5	. 15   3	) / 3U	54.0						3.5				
	<u> </u>		<u> </u>	<u> </u>	J	<u> </u>			L				
COMMENTS	S:												
							·· <u>-</u>						
INSTRUMEN	MOITATI	1: r	oH Meter	X				Ter	nperature	Meter	. <b>x</b>		
			DO Mo				· <u>.</u>	Oth	ег				
	Conductivity Meter X												
Water Dispos	sal <u>onsite</u>	e		Sample	e ID <u>MW</u> -	1	Sample 1	ime <u>01</u>	110				
Analysis B'	<u>TEX</u>												
MS/MSD	MS/MSD BD BD Name/Time TB												

Location: Project M Depth to \ Water Co	Project No.:30003.0 Project Name: Groundwater sampling Client: Burlington Resources  Location: Hampton 4M Well No: TMW-1 Development Sampling  Project Manager MJN Date 12/13/04 Start Time 1343 Weather clear 30s  Depth to Water 19.32 Depth to Product na Product Thickness na Measuring Point TOC  Water Column Height 0.28 Well Dia. 2"  Sampling Method: Submersible Pump Centrifugal Pump Peristaltic Pump Other											
Sampling Method: Submersible Pump												
Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other or bail dry												
Water Volume in Well												
	t x ft of 0.28 x .1			Gallons .045 x 3			10 111 44011	Ounces		-	Gal/oz to be removed 0.134	
Time (military)	pF (su		SC nhos/cm)	Temp (°F)	ORF (millivo		D.O. (mg/L)	Turbidit (NTU)	• ;	Evac. al)	Comments/ Flow rate	
1345	6.1	0	3020	59.1	·				.0.	47	Grey, well has bailed dry	
Final:								Ferrous				
Time	Hq	sc	Temp	Eh-ORP	D.O.	Tu	rbidity	Iron	Vol Eva	c.   C	Comments/Flow Rate	
1345	6.10	3020	59.1						.047		Vell has bailed dry	
		<u> </u>		<u></u>								
COMMEN	TS:				· · · · · · · · · · · · · · · · · · ·							
INSTRUM	ENTAT	ION:	pH Meter	X				Ter	nperature	Mete	er x	
		Cand	DO Mo		· · · · · ·			_ Oth	er _			
14/-4 - : D'			activity Me					- 1 - 700 - 1	1050			
Water Dis			Sample II	na	<del></del>		samp	le Time	1350	_		
Analysis		TEX				-						
MS/MSD_			BD <sub>.</sub>			BD	Name/Tir	ne			_ TB	

Project No.: 30003.0 Project Name: BR Groundwater Sampling Client: Burlington												
	<del>-</del>		W-5 Development Sampling									
Project Manager MJN Date 12/13/04 Start Time 1320 Weather clear 30s									<del></del>			
Depth to Water 15.58 Depth to Product na Product Thickness: na Measuring Point TOC												
Water Column Height 6.61 Well Dia2"												
VVAICE COMMITTERSHIE 0.01 VVCII DIG												
Sampling Method: Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Other ☐												
Bottom Valve Bailer Double Check Valv□Bailer Stainless-Steel Kemr□rer												
Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other or bail dry												
Water Volume in Well												
The state of the s	t ft of wat	er.		Gallons				Ounces		Gal/oz to be removed		
6.6	1 x 0.16			1.058 x 3						3.173		
Time pH SC Temp ORP D.O. Turbidity Vol Evac. Comments/												
(military)	(su)	,	hos/cm)	(°F)	(millivolts)		(mg/L)	(NTU)	, ,		Flow rate	
1322	3.10		5490	59.7					.25		Black	
	4.20		1070	59.7		***			.50		Black	
	4.10		1015	59.6					.75		Black	
	4.20		1090	59.7					2.5		Well is bailing down	
<u>1332</u>	4.40		1110	58.7					2.75	5	Well has bailed dry	
<u></u>											· · · · · · · · · · · · · · · · · · ·	
	ļ											
	т т			Γ	T	<del></del>		Forrous		1		
Final:	4 s	_	Temp	Eh-ORP	D.O.	T.,	rbidity	Ferrous Iron	Vol Evac.		omments/Flow Rate	
		1110	58.7	LII-OINF	0.0.	l lu	ibidity	ווטוו	2.75		Well has bailed dry	
1002			00.7							Troil liab balled diy		
<u> </u>							<del></del>				······································	
COMMENTS: well bailing down												
INOTELIMENTATION: SUMMASS V												
INSTRUMENTATION: pH Meter X Temperature Meter x												
DO Monitor Other												
Conductivity Meter X												
Water Disposal onsite Sample ID MW-5 Sample Time 1338												
Analysis <u>BTEX</u>												
MS/MSD BD BD Name/Time TB												

Project No.: 30003.0 Project Name BR Groundwater Sampling Client: Burlington									
Location: Hampton 4M Well No: MW-7 Development Sampling									
Project Manager MJN Date 12/13/04 Start Time 1400 Weather clear 30s									
Depth to Water 20.03 Depth to Product na Product Thickness: na Measuring Point TOC									
Water Column Height _0.17 Well Dia2"									
Sampling Method: Submersible Pump									
Bottom Valve Bailer Double Check Valv□Bailer Stainless-Steel Kemr□rer									
Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other or bail dry									
Water Volume in Well									
	ft of wat	er	Gallons			Ounces		Gal/oz to be removed	
.17 x 0.16 0.027 x 3 0.082									
Time	рН	SC	Temp	ORP	D.O.	Turbidity	Vol Evac.	Comments/	
(military)	(su)	(umhos/ci		(millivolts)	(mg/L)	(NTU)	(gal)	Flow rate	
1400	5.17	3680	58.9			<u> </u>	0.031	Black	
							<del> </del>		
				<u> </u>					
į				$\downarrow$		į			
				<del> </del>	<b>-</b>		<del>                                     </del>		
					1				
				<del></del>					
Final:									
Time	pН	SC	Temp	Eh-ORP	D.O.	Turbidity	Vol Evac.	Comments/Flow Rate	
<u>1400</u>	5.17	3680	58.9				0.031	Black	
COMMENTS	3: well ba	iling down				<del></del>	<del></del>		
INSTRUMENTATION: pH Meter X Temperature Meter x									
DO Monitor Other									
Conductivity Meter X									
Water Disposal onsite Sample ID MW-7 Sample Time 1410									
Analysis BTEX									
MS/MSD BD BD Name/Time TB									

Project No.:	30003.0	Pro	oject Nam	ne BR Grou	ındwater S	Samı	pling	Client:	Burlin	gton			
Project No.: 30003.0 Project Name BR Groundwater Sampling Client: Burlington  Location: : Hampton 4M Well No: MW-9 Development Sampling													
Project Manager MJN Date 12/13/04 Start Time 1150 Weather clear 30s									Weather clear 30s				
Depth to Water 22.7 Depth to Product na Product Thickness: na Measuring Point TOC													
Water Column Height 11.85 Well Dia. 2"													
Sampling Method: Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Other ☐													
Onitania 2			Valve Ba								less-Steel Kemr©rer		
Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other or bail dry													
Water Volume in Well													
	ft of wat	er		Gallons	-	Ounces				Gal/oz to be removed			
11.8	5 x 0.16			1.896 x 3	3	. l		· · · · · · · · · · · · · · · · · · ·			5.69		
T:		1	00	Taman	ORP	ī	D.O.	To anh i alia	. 1 1/-	-1 F	Comments		
Time (military)	pH (su)	1	SC hos/cm)	Temp (°F)	(millivolt	1	D.O. (mg/L)	Turbidit (NTU)		ol Evac. ( gal)	Comments/ Flow rate		
1152	7.13	4	1630	55.9						.25	Clear		
	6.81		1650	57.5		•				.50	Clear		
			<b>1</b> 690	58.3						.75	Clear		
			<b>1770</b>	58.4						3.50	Clear		
	6.59		¥710 ————	58.3						4.50	Clear		
	6.61		1750	57.8						5.0	Clear		
1212	6.63	4	1690	57.9						6.0 Clear			
										<u></u>			
F:	1				Т			Forress		<del>- 1</del>			
Final:	J 6	С	Temp	Eh-ORP	D.O.	Tur	bidity	Ferrous Iron	Val E	, , , , , , , , , , , , , , , , , , ,	Comments/Flow Rate		
		1690	57.9	EII-OKP	0.0.	Tui	Didity	11011	on Vol Evac.		Clear		
COMMENTS:													
::::-		,		····									
INSTRUMENTATION: pH Meter X Temperature Meter x													
DO Monitor Other													
Conductivity Meter X													
Water Disposal onsite Sample ID MW-9 Sample Time 1215 Analysis BTEX													
MS/MSD BD BD Name/Time TB													

Project No <u>3</u> Location: <u>Ha</u> Project Mar Depth to Wa Water Colu	ampton 4 lager ater5	MJN 6.22	Wel	l No: MV th to Produ	V-11 Date1 ct_na1	Deve 2/13/04	elopment start Tim	ne <u>1416</u>	gton Weather <u>clear 30s</u> uring Point <u>TOC</u>
Sampling M	ethod: S	ubmersi	ble Pun	np 🗆	Centrifug	al Pump 🛚	] Peristalti	c Pump 🛚	Other
Bottom Valv	e Bailer	X		D	ouble Ched	ck Valve Bai	iler 🗆 🤄	Stainless-Stee	el Kemmerer 🗆
Criteria: 3	to 5 Casi	ng Volu	mes of \	Water Rem	oval X sta	abilization of	Indicator Pa	arameters X	Other or bail dry
					Water Vol	ume in Well			
Gal/ft	k ft of wat	er		Gallons			Ounces		Gal/oz to be removed
15.4	41x 0.16			2.466 x 3					7.397
							<del></del>		
Time (military)	pH (su)		C os/cm)	Temp (°F)	ORP (millivolts	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. ( gal)	Comments/ Flow rate
1416	5.99	22	70	56.7				.25	Clear
	5.94	27	90	56.3				.50	Red/brown
	5.89	27	40	55.2				2.0	Red/brown
	5.93	26	70	55.3				4.0	Red/brown
	6.0	26	70	54.2				6.0	Red/brown
<u> </u>	6.02	27	30	54.8				7.0	Red/brown
1444	6.00	27	10	54.9				8.0	Red/brown
								<del>                                     </del>	
F :		1							
<b>Final:</b> Time p	<sub>ս</sub>   ֊	c  -	Temp	Eh-ORP	D.O.	Turbidity	Vol Evac.	Comments/F	low Rate
		2710	<b>54.9</b>	LII-OIII	D.O.	Tarblaity	8.0	Red/brown	low Ivale
COMMENT	S: Pump	depletin	g well						
INSTRUME	NTATION	d. pL	l Motor	Υ			Toma	perature Moto	r v
INOIKUME	MIAIIOI	•	l Meter DO Mo			<del></del>	_ remţ Othe	oerature Mete r	1 A
	(	Conducti						·	
Water Dispo			, 17101		= ID MW-1	1 Sample T	- 'ime_ 1447		
Analysis	BTE			25					
MS/MSD			BD_	··	E	D Name/Tir	ne		

Project No.: 30003.0 Project Name BR Groundwater Sampling Client: Burlington  Location: Hampton 4M Well No: MW-12 Development Sampling  Project Manager MJN Date 12/13/04 Start Time 1242 Weather clear 30s  Depth to Water 20.26 Depth to Product na Product Thickness: na Measuring Point TOC  Water Column Height 11.81 Well Dia. 2"  Sampling Method: Submersible Pump □ Centrifugal Pump □ Peristaltic Pump □ Other □  Bottom Valve Bailer Double Check Valv□Bailer Stainless-Steel Kemr□er											
Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other or bail dry											
Gal/ft x ft of water Gallons Ounces Gal/oz to be removed											
11.	11.81x 0.16 1.89 x 3 5.67										
Time (military)	pH (su)	1	SC nos/cm)	Temp (°F)	ORP (millivol	- 1	D.O. (mg/L)	Turbidity (NTU)			Comments/ Flow rate
1245	5.03	3	910	57.8					.25	5	Black/grey
	5.0	3	920	58.6					.50	)	Black/grey
	5.10	3	960	58.4					.75	5	Black/grey
	5.10	3	960	58.6					3.0	)	Black/grey
	5.07	4	1100	58.4					4.0	)	Black/grey
	5.03	<u> </u>	190	58.5					5.0		Black/grey
1300	5.10		1110	58.5					6.0		Black/grey
1500	3.10	4		56.5					0.0	<b>,</b> 	Biackgrey
L	·							L			
	H S	C 1110	Temp 58.5	Eh-ORP	D.O.	Tui	rbidity	Ferrous Iron	Vol Evac		comments/Flow Rate llack/grey
							· · · · · · · · · · · · · · · · · · ·				
COMMENT	COMMENTS:										
INSTRUME	NTATION	1: p	oH Meter	Х				Ter	nperature	Mete	er x
			DO Mo					Oth	ier		
Water Dispo			tivity Met		- ID MAA	12 (	Sample T	ime 1 <u>30</u>	ı.A		
Analysis	osai <u>orisid</u> <u>BTE</u>			Sample	EID INIAA-	14 3	Jampie 1	#116 <u>130</u>			
MS/MSD_	•										

Project No30003.0 Project Name BR Groundwater Sampling Client: Burlington												
Location:		_		•	l No: M\				· <del>-</del>	Sampling		
Project Ma								13/04	•			Weather clear 30s
i -					 th to Produ							uring Point
, -					I Dia							
					<u></u> -		-					
Sampling	Method	Sı	ubmer	sible Pun	np 🗆	Centrifu	ıgal I	Pump [	Perista	Itic Pump		Other
Bottom Va	lve Bail	er	X		Double	Check \	/alve	Bailer [	Stainle	ss-Steel K	emm	nerer 🗌
Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other <u>or bail dry</u>												
Water Volume in Well												
	x ft of		er		Gallons				Ounces		. 1	Gal/oz to be removed
8.	81 x 0.1	16			1.41 x 3							4.229
L					<u></u>						-	
Time	pl			SC	Temp	ORF	)	D.O.	Turbidit	y Vol Ev	ac.	Comments/
(military)	(su		ı	nos/cm)	(°F)	(millivo		(mg/L)	(NTU)	• 1		Flow rate
1120	5.4	2	4	1900	55.1					.25		Clear
	5.6	0	5	150	56.0					.50	)	Clear
	4.6	7	4	1730	56.7					.75		Clear
	4.5	3	4	1850	56.5	l .				1.2	5	Clear
	4.4	1	4	700	56.0					2.0		Clear
	4.7	1	4	790	56.2					3.0		Clear
	4.5	7	4	810	56.2					4.0	1	Clear
1142	4.5	0	4	790	56.1					4.5		Clear
	-								<u> </u>			
L			l					<u> </u>	l		-	<u></u>
Final:									Ferrous			
	рH	S	C	Temp	Eh-ORP	D.O.	Tu	rbidity	Iron	Vol Evac.	C	comments/Flow Rate
1142	4.50	4	790	56.1						4.5	C	lear
		<u> </u>					<u> </u>					
COMMEN	TC:		<del></del>									
COMMEN	COMMENTS:											
INSTRUM	FNTAT	ION	l· r	H Meter	X			<del></del>	Ter	nperature I	Mete	ar <b>Y</b>
			г	DO Moi					Oth	•		
		С	onduc	tivity Met		*			_			<del></del>
Water Disp	osal or			arity inot		e ID MW-	15 9	Sample T	ïme 114	5		
BTEX VO		.0110	<del>.</del>		Jampi	- 1010V		-ampic 1	0114			
MS/MSD_				RD			ΒD	Name/Tir	ma			ТВ
IAIO\IAIOD"		-	<del></del>	00_				1441116/11				_ 10

Project No.:			-	ne: <u>BR Gro</u> No: <u>M</u> V				Client:			
Project Man								•		_	Weather clear 30s
_	-				_				<u> </u>		uring PointTOC
Water Colu	·		_			-			<u> </u>		
Sampling M	ethod: S	ubmer	rsible Pun	np 🗆	Centrif	ugal	Pump [	Perista	Itic Pump		Other
Bottom Valv	e Bailer	X		[	Double C	heck	Valve Ba	iler 🗆	Stainless-	Stee	el Kemmerer 🔲
Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other or bail dry											
Water Volume in Well											
	cft of wat 3 x 0.65	ter	-	Gallons 4.44 x 3		-		Ounces			Gal/oz to be removed 13.319
0.0	0.65 x 0.05										
Time	рН	Ţ	SC	Temp	ORI	<b>)</b>	D.O.	Turbidit	y Vol E	vac.	Comments/
(military)	(su)	(um	hos/cm)	(°F)	(millivo	olts)	(mg/L)	(NTU)		1)	Flow rate
1222	5.32		3660	57.2					.50	)	Grey
	4.96	4	1080	57.9					1.0	)	Heavy odor
	4.60		<b>\$120</b>	57.6					2.5		Heavy odor
	4.62		1100	58.1					5.0		Heavy odor
	4.60	4	1260	58.0					5.2	5	Heavy odor, well is bailing dry
<u>1235</u>	4.65	4	1170	57.9					5.5	0	Well has bailed dry
	}				}		1				
				<u> </u>	1	1		F		<del>-</del>	
<b>Final:</b> Time pl	н   s	С	Temp	Eh-ORP	D.O.	Tu	rbidity	Ferrous Iron	Vol Evac		comments/Flow Rate
		1170	57.9						5.50		Vell has bailed dry
			<u> </u>	<u> </u>	1	<u>,                                      </u>		:	<u> </u>		
COMMENT	S: well ba	iled di	у			_					
INSTRUME	NTATION	J: 1	oH Meter	X				Ten	nperature	Mete	er x
		,	DO Mo					Oth	•		
	C	onduc	tivity Met								
Water Dispo			<del></del>	Sample	e ID <u>MW</u>	<u>-16</u> :	Sample T	ime <u>123</u>	8		
Analylsis	Analylsis <u>BTEX</u>										
MS/MSD			BD_			BD	Name/Tin	ne			TB

	ratories							Strate and Strategy	HAIN STO	of DY		
2773 Downhill Drive Steamboat S	prings, CO 804	487 (800) 334	1-5493	water to		Carlo E						
Report to:								2411		76.3 B		
Name: GREGG WUY			-	Addres		<u> 3401</u>		DT 14	<u>St</u>		3	
Company: BULLNGT	<u> </u>		-	I		ng-to	21	NW 3	18-			
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Name:				E-mail	:							
Company:				Teleph	none:							
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If sample(s) received past holding						lete				YES		
analysis before expiration, shall						<b>.</b>				NO		
If "NO" then ACZ will contact cli is indicated, ACZ will proceed w							a will b	o gualit	ind			
PROJECT INFORMATION		teu analyses,								üse au	ote nun	iher)
Total Marks and Bar Sail Charles Store and Comment	網。其一學學學	A CONTRACTOR	25.5	17 Marie 18 2						7 A 2 Mag		
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SAMPLE IDENTIFICATION	DATE	E:TIME .	Matrix									
Hampron MW 1	12/13/04	1110	GW	2								
Hampton MW 15	12/13/04	1145	GW	<i>a</i>								
Hampton MW 9	12/13/01	1215	gw.	2								
Hamoron MW16	12/13/04	1 1238	GW	3.								
Hampron MWID	12/17/0	1304	GW	Э								
HaMIDTON SEED	1011310	1 1315	SW	2								
HAMPTON MWS	12/13/04	1 1338	αW	9								
Hampton TMW 1			GW	8								
Hampron MW7	12/13/04	1 1410		9				_				
Harmoron MW-11	12/13/0	4 1447	GW	à								
Matrix SW (Surface Water) · GV	V (Ground Water)	· WW (Waste W	/ater) · DW		ı g Water)	· SL (Slu	dge) · S0	) (Soil) ·	OL (Oil)	Other (S	Specify)	
REMARKS	•			4	A	14.15	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			38.10	182	変優で
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ACZ Labo	ratories, Inc.								HAIN	3	
2773 Downhill Drive Steamboat S	orings, CO 80487 (800) 334	-5493			and the second	3.5° - 70° A		CL	JSTO	DY	State M
Report to	remains the second	<b>有限性温息</b>	HE W	(4.734.4)	18.00			14 T	The same		Sand All Control
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is Indicated, ACZ will proceed wi						a will b	e qualif	led.		• • :	: .
PROJECT INFORMATION									use que	ote nun	iber)
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Project/PO#: MISC.GMOU	ND WATER SAME	2	of Containers					}			
Reporting state for compliance t	The state of the s		ont			•	}	] .			٠
Are any samples NRC licensabl			ofC				1	İ			
SAMPLE IDENTIFICATION:	DATE:TIME	Matrix					ļ		ļ		<u> </u>
Hampron mul	12/13/04 /110	GW	2					ļ			
Hampron MW 15	12/13/04 1145	GW	8			<u> </u>		ļ			· <u>·</u>
HampTON MW 9	12/13/01/215	gw.	3		<u> </u>		<u> </u>				
Hampton MW16	12/13/04/1238	GW	9				<u> </u>		ļ		
Hampron MWID	12/13/04 1304	GW	9		ļ		-	<b> </b>	ļ		<del></del>
HAMPTON SEEP	12/13/04 1315	SW	3		<u> </u>				<u> </u>		
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Hampton TMW 1	12/13/04 1350	GW	à		<u> </u>	<b> </b>	<u> </u>		<u> </u>		
Hampton MW-11	13/13/19/19/0	GW	3			<b> </b>	-		ļ		
Hampoton MW-11	12/13/89 / 17 /	TOWN DIA	ک ((Dalabia	- 101-10-1	CI (Oh	deel S	2 (5-ii)	01 (011)	D# == /6	\	
REMARKS	(Ground Water) - WW (Waste W					iage) · S	O (SOII) ·	OL (OII)	Other (S	эреспу)	
REWARKS Address of Class	Publik to have believed in the control of the 21 to the	List the his	Marshamat Naj Su	فيراده شقائم	Ridde Land and					E K. N. L. S.	40.0
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LOCATION.											
Place	refer to ACZ's terms & con	ditions 1	acatad	on tha	rovoro	o oido .	of this (	200			
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	(EE) 12-13-04						1, 1, 1, 1, 1, 1	Sec. 139		م اسرا	
77-17-6	(BE) 12-13-04	2025	1472	CAND.	vou	ay			<del> / «/</del>	1/2/0	7-
·		<del></del>	<b></b> -		·	<del></del>		······································		1100	<u>,                                     </u>
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	2.31.78.00.399,00.1		<b>S</b>	, <b>8</b> (5 c	1 60° 1 52	dr' sair . The sair	E. 67 F.	<b>S</b> - 6 - 6	* 6	A CAN	38 J. A.
	per	•									
Gregg Wurtz									_		
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December 28, 2004

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: MISC GW SAMPLE ACZ Project ID: L49151

#### Gregg Wurtz:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on December 15, 2004. This project has been assigned to ACZ's project number, L49151. 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 L49151. 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 January 28, 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.

#### 28/Dec/04

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





Organie Analytical Results

**Burlington Resources, Inc.** 

Project ID:

MISC GW SAMPLE

Sample ID:

Hampton SEEP

Locator:

ACZ Sample ID: L49151-06

Date Sampled: 12/13/04

12/13/04 13:15

Date Received: 12/15/04

Sample Matrix: Ground Water

Benzene Toluene Ethylbenzene & Xylene

Analysis Method:

M8021B GC/PID

Extract Method:

Method

Analyst: km

Extract Date:

Date: 12/20/04 22:03 Date: 12/20/04 22:03

Analysis Date:

Dilution Factor: 1

Compound

Compound .	OAS 47	Result	QUALEX	e Unite,	Mark	POL
Benzene	000071-43-2		U	ug/L	0.3	1
Ethylbenzene	000100-41-4		U	ug/L	0.2	1
m p Xylene	01330 20 7	0.4	J	ug/L	0.4	2
o Xylene	00095-47- 6		U	ug/L	0.2	1
Toluene	000108-88-3	0.2	J	ug/L	0.2	1

Surrogate Recoveries

Suriogae		% Recovery	XO Vinitio.	ोह्छर ः	: 00GF):
Bromofluorobenzene	000460-00-4	102.4	%	83	117

REPOR.01.01.01.02

L49151: Page 7 of 16

# Laboratories, Inc.

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

# Organic Analytical Results

Burlington Resources, Inc.

Project ID:

MISC GW SAMPLE

Sample ID:

Hampton MW 1

Locator:

ACZ Sample ID: L49151-01

Date Sampled: 12/13/04 11:10

Date Received: 12/15/04

Sample Matrix: Ground Water

Benzene Toluene, Ethylbenzene & Xylene

Analysis Method:

M8021B GC/PID

Extract Method: Method

Analyst: km

Extract Date: 12/20/04 17:04

Analysis Date: 12/20/04 17:04

Dilution Factor: 1

Compound

Compound	CAS	Result	QUAL XQ	.Uilto.	More i	<b>:10</b> 15
Benzene	000071-43-2		U	ug/L	0.3	1
Ethylbenzene	000100-41-4		U	ug/L	0.2	1
m p Xylene	01330 20 7	2.6		ug/L	0.4	2
o Xylene	00095-47- 6	. 0.7	J	ug/L	0.2	1
Toluene	000108-88-3	0.9	J	ug/L	0.2	1

Surrogate Recoveries

Surrogate Recoveries	GAS .	% Recovery	XO, Units	(1 <b>0</b> 1)	. wer
Bromofluorobenzene	000460-00-4	96.2	%	83	117

REPOR.01.01.01.02

L49151: Page 2 of 16

# Laboratories, Inc. 2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Organic Analytica Recule:

**Burlington Resources, Inc.** 

Analysis Method:

Project ID:

MISC GW SAMPLE

Sample ID:

Hampton MW 5

Locator:

ACZ Sample ID: L49151-07

Date Sampled: 12/13/04 13:38

Date Received: 12/15/04

Sample Matrix: Ground Water

Energy & Green Clydle Francis Constant

M8021B GC/PID

Extract Method: Method Analyst: km

Extract Date:

12/20/04 22:46

Analysis Date:

12/20/04 22:46

Dilution Factor: 50

Compound

(Configuration)	<b>1929</b>	os litember (C		Dr GGP
Benzene	000071-43-2	1820	ug/L	20 50
Ethylbenzene	000100-41-4	730	ug/L	10 50
m p Xylene	01330 20 7	7240	ug/L	20 100
o Xylene	00095-47- 6	1790	ug/L	10 50
Toluene	000108-88-3	9150	ug/L	10 50

Surrogate Recoveries

Outogate .	<b>⊘</b> AS	%Re-overy	endu On 💮 💮	1100F	DOP.
Bromofluorobenzene	000460-00-4	98.3	%	83	117

REPOR.01.01.01.02

L49151: Page 8 of 16

### Organic Analytica Results

**Burlington Resources, Inc.** 

Project ID:

MISC GW SAMPLE

Sample ID:

Hampton TMW 1

Locator:

ACZ Sample ID: L49151-08

Date Sampled: 12/13/04 13:50

Date Received: 12/15/04

Sample Matrix: Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method:

M8021B GC/PID

Extract Method:

Method

Analyst: km

Extract Date:

12/20/04 23:28 12/20/04 23:28

Analysis Date:

Dilution Factor:

Compound

Compound	GAS 11 L APPEAR	Result	(OLU)AIL, 7X	o Unite :	COL.	P <b>O</b> L()
Benzene	000071-43-2	3	J	ug/L	2	5
Ethylbenzene	000100-41-4	1	J	ug/L	1	5
m p Xylene	01330 20 7	9	J	ug/L	2	10
o Xylene	00095-47- 6	2	J	ug/L	1	5
Toluene	000108-88-3	5	J	ug/L	1	5

Surronate Recoveries

Surroyate Necoveries	CAS Vo.	Recovery XO	Onlin	15000	OGE
Bromofluorobenzene	000460-00-4	99	%	83	117

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## Organic Analyatical Results

**Burlington Resources, Inc.** 

Project ID:

MISC GW SAMPLE

Sample ID:

Hampton MW 7

Locator:

ACZ Sample ID: L49151-09

Date Sampled:

12/13/04 14:10

Date Received:

12/15/04

Sample Matrix:

Ground Water

Benzene Toluene, Ethylbenzene & Xylene

Analysis Method:

M8021B GC/PID

Extract Method:

Method

Analyst: km

Extract Date:

12/21/04 0:12

Analysis Date: 12/21/04 0:12

Dilution Factor: 10

Compound

@ctupomid	<b>PAS</b>	Resim-	ONAP :	O. Mado	MOL	FOL.
Benzene	000071-43-2	94		ug/L	3	10
Ethylbenzene	000100-41-4	10		ug/L	2	10
m p Xylene	01330 20 7	13	J	ug/L	4	20
o Xylene	00095-47- 6	11		ug/L	2	10
Toluene	000108-88-3	3	J	ug/L	2	10

Surrogate Recoveries

Surignic	<b>6/1</b> S	% iceovery	edial), OX	्रिकार	UGL
Bromofluorobenzene	· 000460-00-4	96.2	%	83	117

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## Organic Analyile Results

**Burlington Resources, Inc.** 

Project ID:

MISC GW SAMPLE

Sample ID:

Hampton MW 9

Locator:

ACZ Sample ID: L49151-03

Date Sampled:

12/13/04 12:15

Date Received:

12/15/04

Sample Matrix:

Ground Water

## Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method:

M8021B GC/PID

Extract Method:

Method

Analyst: km

Extract Date:

12/20/04 19:53 12/20/04 19:53

Analysis Date:

Dilution Factor: 1

Compound	
----------	--

Compound	e/s	Result	QUAL X	<b>ा एवाए</b> ,	MOR.	FOL
Benzene	000071-43-2		U	ug/L	0.3	1
Ethylbenzene	000100-41-4		U	ug/L	0.2	1
m p Xylene	01330 20 7	0.5	J	ug/L	0.4	2
o Xylene	00095-47- 6	0.2	J	ug/L	0.2	1
Toluene	000108-88-3	0.4	J	ug/L	0.2	1

Surrogate Recoveries

Surrogate vectoreres	CASIST TO S	/ % Recovery ∃	XO Units.	(حافيا:	DOL
Bromofluorobenzene	000460-00-4	91.4	%	83	117

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### Organie Analytical Results

**Burlington Resources, Inc.** 

Project ID:

MISC GW SAMPLE

Sample ID:

Hampton MW-11

Locator:

ACZ Sample ID: L49151-10

Date Sampled:

12/13/04 14:47

Date Received:

12/15/04

Sample Matrix:

Ground Water

Benzene, Toluene, Ethylbenzene & Xylene.

Analysis Method:

M8021B GC/PID

Extract Method:

Method

Analyst: km

Extract Date:

12/21/04 0:54

Analysis Date:

12/21/04 0:54

Dilution Factor:

Compound

(Compound)	6/16 12 19 19 19 19 19 19 19 19 19 19 19 19 19	Result / QUAL Xe	Unita	MOL	POL
Benzene	000071-43-2	U	ug/L	0.3	1
Ethylbenzene	000100-41-4	U	ug/L	0.2	1
m p Xylene	01330 20 7	U	ug/L	0.4	2
o Xylene	00095-47- 6	U	ug/L	0.2	1
Toluene	000108-88-3	U	ug/L	0.2	1

Surrogate Recoveries

Turnogate (1000) Tito
Surregate 1/4 XQ LUnité VILOL CAS % Recovery XQ LUnité VILOL COLL

Bromofluorobenzene

000460-00-4

93.5

83 117

## Organic Analytica Results

**Burlington Resources, Inc.** 

Project ID:

MISC GW SAMPLE

Sample ID:

Hampton MW 12

Locator:

ACZ Sample ID: L49151-05

Date Sampled: 12/13/04 13:04

Date Received:

12/15/04

Sample Matrix:

Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method:

M8021B GC/PID

Extract Method:

Method

Analyst: km

Extract Date:

12/20/04 21:19 12/20/04 21:19

Analysis Date:

Dilution Factor: 50

Compound

@ompowndi	e PAG	Result 🐧 Q	ual xo umba	Mor	्राख्य
Benzene	000071-43-2	4160	ug/L	20	50
Ethylbenzene	000100-41-4	250	ug/L	10	50
m p Xylene	01330 20 7	930	ug/L	20	100
o Xylene	00095-47- 6	220	ug/L	10	50
Toluene	000108-88-3	1220	ug/L	10	50

Surrogate Recoveries

Surcuio,	CAS (T. J. T.)	% Recovery	<u>४०</u> , धनाइ	F@F.	( DOC
Bromofluorobenzene	000460-00-4	98.6	%	83	117

REPOR.01.01.01.02

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# Organic Analytical Results

Burlington Resources, Inc.

Project ID:

MISC GW SAMPLE

Sample ID:

Hampton MW 15

Locator:

ACZ Sample ID: L49151-02

Date Sampled: 12/13/04 11:45

Date Received: 12/15/04

Sample Matrix: Ground Water

Benzene, Toluene, Ethylbenzene & Xylene,

Analysis Method:

M8021B GC/PID

Extract Method: Method

Analyst: km

Extract Date: 12/20/04 19:11

Analysis Date: 12/20/04 19:11

Dilution Factor: 1

Compound

•	Compound	OAS:	Result e	uar xo.	Onic , t	Moles (P	<u> </u>
	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	0.9	J	ug/L	0.4	2
	o Xylene	00095-47- 6	0.5	J	ug/L	0.2	1
	Toluene	000108-88-3	0.9	J	ug/L	0.2	1

Surrogate Recoveries

<u>Surrogale</u>	ÇAŞ (	% Recovery	elinu. Ox	-Far-	(nor
Bromofluorobenzene	000460-00-4	96.9	%	83	117

REPOR.01.01.01.02

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# Laboratories, Inc.

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

## Organic Analytica Redie

Burlington Resources, Inc.

Project ID:

MISC GW SAMPLE

Sample ID:

Hampton MW 16

Locator:

ACZ Sample ID: L49151-04

Date Sampled: 12/13/04 12:38

Date Received: 12/15/04

Sample Matrix: Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method:

M8021B GC/PID

**Extract Method:** 

Method

Analyst: km

Extract Date:

12/20/04 20:37 12/20/04 20:37

Analysis Date:

Dilution Factor: 100

Compound

Gompound	CAS -	Result Q	VAL XQ Unite	MDL	SPOR S
Benzene	000071-43-2	8340	ug/L	30	100
Ethylbenzene	000100-41-4	1550	ug/L	20	100
m p Xylene	01330 20 7	14800	ug/L	40	200
o Xylene	00095-47- 6	4030	ug/L	20	100
Toluene	000108-88-3	17100	ug/L	20	100

Surrogate Recoveries

Sunorio	OAS + Till	% Recovery	XQ: Units	/F@F	COGF
Bromofluorobenzene	000460-00-4	95.2	%	83	117

REPOR.01.01.01.02

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## Laboratories, Inc.

Organic Reference

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

Header E	

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)

LCL Lower Control Limit

MDL Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

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 Upper Recovery Limit, in % (except for LCSS, mg/Kg)

UCL Upper Control Limit

Sample Value of the Sample of interest

### QC Sample Types

-			CONTRACTOR OF THE PARTY OF THE	
	SURR	Surrogate	LFM	Laboratory Fortified Matrix
	INTS	Internal Standard	LFMD	Laboratory Fortified Matrix Duplicate
	DUP	Sample Duplicate	LRB	Laboratory Reagent Blank
	LCSS	Laboratory Control Sample - Soil	MS/MSD	Matrix Spike/Matrix Spike Duplicate
	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)

- B Analyte detected in daily blank
- H Analysis exceeded method hold time.
- J Analyte concentration detected at a value between MDL and PQL
- R Poor spike recovery accepted because the other spike in the set fell within the given limits.
- T High Relative Percent Difference (RPD) accepted because sample concentrations are less than 10x the MDL.
- U Analyte was analyzed for but not detected at the indicated MDL
- V High blank data accepted because sample concentration is 10 times higher than blank concentration
- W Poor recovery for Silver quality control is accepted because Silver often precipitates with Chloride.
- X Quality contreol sample is out of control.
- Z Poor spike recovery is accepted because sample concentration is four times greater than spike concentration.
- P Analyte concentration differs from second detector by more than 40%.
- E Analyte concentration is estimated due to result exceeding calibration range.
- M 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.
- (6) Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995

#### Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Organic analyses are reported on an "as received" basis.

REPIN03.11.00.01

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**Burlington Resources, Inc.** 

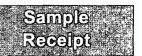
ACZ Project ID: L49151

ACZID: WORKNUM PARAMETER METHOD QUAL DESCRIPTION

No extended qualifiers associated with this analysis

EXTQUAL.11.20.02.01

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**Burlington Resources, Inc.** 

MISC GW SAMPLE

ACZ Project ID: Date Received:

L49151 12/15/2004

Received By:

#### Receipt Verification

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

YES	NO	NA
		X
Χ	) 	
		X
Χ		
	Х	
X		
Х		
X		
Х		
		X
		X
Х		
		X

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

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

Gregg Wurtz was contacted. Gregg indicated who did the sampling.

#### Shipping Containers

Cooler Id	 Temp (°C)	Rad (µR/hr)
ACZ	8.5	13

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

Notes

<sup>&</sup>quot;Sampled by" not relinquished.

Sample Receipt

**Burlington Resources, Inc.** 

Sample Container Preservation

MISC GW SAMPLE

ACZ Project ID: Date Received: L49151 12/15/2004

Received By:

received by.

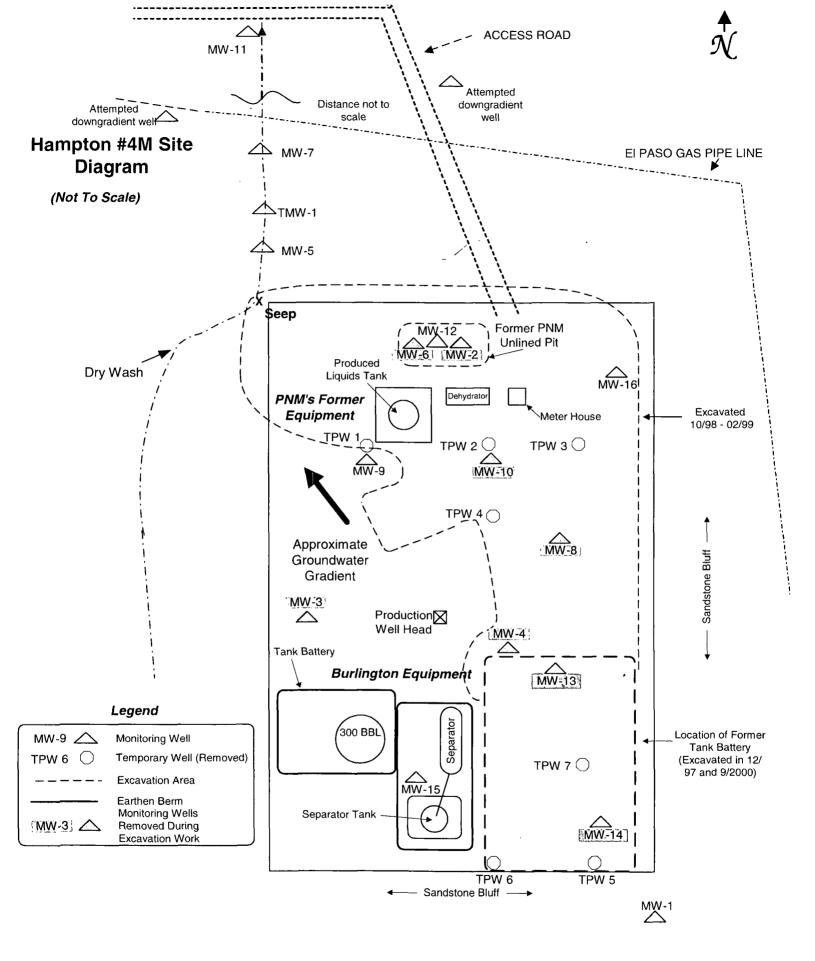
SAMPLE	CLIENT ID	R < 2	G < 2	Y < 2	YG< 2	B < 2	BG< 2	0 < 2	T >12	P >12	N/A,	RAD
L49151-01	Hampton MW 1							.,			Х	
L49151-02	Hampton MW 15										Х	
L49151-03	Hampton MW 9										Х	
L49151-04	Hampton MW 16										Х	
_49151-05	Hampton MW 12										Х	
_49151-06	Hampton SEEP										Х	
_49151-07	Hampton MW 5										Х	
_49151-08	Hampton TMW 1										Х	
_49151-09	Hampton MW 7										Х	
_49151-10	Hampton MW-11				1						X	

Sample Container Preservation Legend

Abbreviation	Description .	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
В	Filtered/Sulfuric	BLUE	pH must be < 2
BG	Filtered/Sulfuric	BLUE GLASS	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
0	Raw/Sulfuric	ORANGE	pH must be < 2
Р	Raw/NaOH	PURPLE	pH must be > 12
Ŧ	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Υ	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 μR/hr

# **Attachment 2**

## **SITE DIAGRAM**



## **Attachment 3**

# **Topograhic Location Map**

