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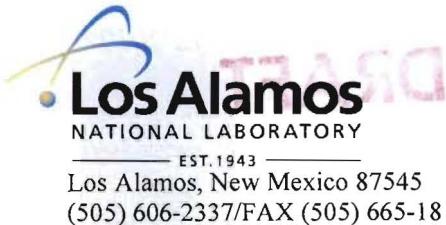
Title: Los Alamos National Laboratory Surface Water Monitoring Results, Rio Grande above the City of Santa Fe's Buckman Direct Diversion

Author(s): Robert Beers
ENV-RCRA

Intended for: Mr. Brian Snyder
Water Division Director
City of Santa Fe
Santa Fe, New Mexico 87504



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Date:
Refer To: EP2010-

Mr. Brian Snyder, Water Division Director
Acting Public Utilities Division Director
Sangre de Cristo Water Division
City of Santa Fe
801 West San Mateo
P.O. Box 909
Santa Fe, New Mexico 87504

**Subject: Los Alamos National Laboratory Surface Water Monitoring Results, Rio Grande
above the City of Santa Fe's Buckman Direct Diversion**

Dear Mr. Snyder:

This report, prepared by Los Alamos National Laboratory (LANL or the Laboratory), provides analytical results from the July 13, 2010, sampling of the Rio Grande above the City of Santa Fe's Buckman Direct Diversion (BDD). All results were below U.S. Environmental Protection Agency (EPA) drinking water standards, with the exception of the following naturally-occurring metals.

- Aluminum (Al) was measured in an unfiltered sample at a concentration of 612 µg/L; the EPA national secondary drinking water standard for aluminum is 50 µg/L–200 µg/L. The concentration of aluminum in the filtered sample was <200 µg/L.
- Iron (Fe) was measured in an unfiltered sample at a concentration of 428 µg/L; the EPA national secondary drinking water standard for iron is 300 µg/L. The concentration of iron in the filtered sample was <100 µg/L.
- Manganese (Mn) was measured in an unfiltered sample at a concentration of 60.7 µg/L; the EPA national secondary drinking water standard for manganese is 50 µg/L. The concentration of manganese in the filtered sample was 4.5 µg/L.

In a November 1, 2007, letter the BDD Board requested that LANL and the U.S. Department of Energy (DOE) fund and implement six actions to protect public drinking water supplies (H. Montoya, Chair, BDD Board, to G. Rael, DOE, and S. Stiger, LANL). Pursuant to the letter's action item 2, *Properly monitor the transport of legacy contaminants in both the surface water and groundwater flow systems*, on July 30, 2008, LANL initiated bimonthly sampling of the Rio Grande at Otowi Bridge and at Buckman upstream of the BDD. This report presents the analytical results from the July 13, 2010, 11:30 a.m., sampling event at Buckman. The results from sampling the Rio Grande at Otowi Bridge will be reported separately once the Pueblo of San Ildefonso has had an opportunity to review the data.

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Analytical results from the May 10, 2010, event are summarized in Tables 1.0 to 6.0. The attached CD also contains an Excel file of Tables 1.0 to 6.0 and a glossary of laboratory qualification codes, secondary validation codes, and secondary validation reason codes. A discussion of the analytical results follows.

Radionuclides: Samples were collected from the Rio Grande at Buckman and submitted to General Engineering Laboratories, Inc. (GEL) and to the University of Miami Tritium Laboratory (UMTL) for the analysis of radionuclides. Analytical results are summarized in Table 1.0. The results are discussed below.

- **Americium-241, Cesium-137, Neptunium-237, Plutonium-238, Plutonium-239/240, and Strontium-90:** All filtered and unfiltered results were nondetect, as indicated by the analytical laboratory qualifier code "U."
- **Gross Alpha:** Gross alpha was not detected in the filtered and unfiltered samples, as indicated by the analytical laboratory qualifier code "U."
- **Gross Beta:** Gross beta was not detected in the filtered sample, as indicated by the analytical laboratory qualifier code "U." Gross-beta activity in the unfiltered sample was 3.8 pCi/L, below the EPA screening level of 50 pCi/L for gross beta in drinking water.
- **Radium-226:** Radium-226 was not detected in the filtered and unfiltered samples, as indicated by the analytical laboratory qualifier code "U."
- **Radium-228:** Radium-228 was not detected in the filtered sample, as indicated by the analytical laboratory qualifier code "U." Radium-228 activity in the unfiltered sample was 2.42 pCi/L, below the EPA MCL of 5 pCi/L for radium-228 in drinking water.
- **Isotopic Thorium:** Filtered and unfiltered samples were submitted to GEL for isotopic thorium analysis. All filtered results were nondetect, as indicated by the analytical laboratory qualifier code "U." Unfiltered thorium activities were less than 0.08 pCi/L. The EPA has not established a drinking water standard for thorium. Thorium, like uranium, occurs naturally in the environment.
- **Tritium:** Tritium results from UMTL were pending at the time this report was prepared. The results will be reported in the next monitoring report.
- **Isotopic Uranium:** Filtered and unfiltered samples were submitted to GEL for isotopic uranium (U) analysis using alpha spectroscopy. The EPA has not established an activity-based MCL for uranium isotopes in drinking water; the current EPA MCL of 30 µg/L is a mass-based standard. The mass of uranium in each sample was calculated using the following formula, which incorporates the specific activities for the isotopes:

$$\text{Total uranium } (\mu\text{g/L}) = \left(\frac{^{233/234}\text{U}}{6250}\right) + \left(\frac{^{235/236}\text{U}}{2.16}\right) + \left(\frac{^{238}\text{U}}{0.336}\right)$$

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The calculated concentrations of total uranium are presented below. These values are consistent with the total uranium results obtained from inductively coupled plasma/mass spectrometry (ICPMS) analysis presented in Table 6.0. All results are below the EPA MCL of 30 µg/L for total uranium in drinking water.

Location	Field Prep (F/UF)	Total Uranium —Calculated— (pCi/L)	Total Uranium —ICPMS— (pCi/L)
Buckman Diversion SW	F	1.2	1.4
Buckman Diversion SW	UF	1.3	1.4

Organics: Samples were collected from the Rio Grande at Buckman and submitted to GEL for the analysis of organics. The analytical results are summarized in Tables 2.0, 3.0, and 4.0 and are discussed below.

- **Volatile Organic Compounds (VOCs):** No VOCs were detected in the unfiltered sample or field trip blank (FTB) at concentrations greater than GEL's method detection limit (MDL).
- **Semivolatile Organic Compounds (SVOCs):** No SVOCs were detected in the unfiltered sample at concentrations greater than GEL's MDL.
- **Pesticides:** No pesticides were detected in the unfiltered sample at concentrations greater than GEL's MDL.
- **Polychlorinated Biphenyls (PCBs):** An unfiltered sample and unfiltered field blank (FB) were submitted to Cape Fear Analytical (CFA) for the analysis of 209 PCB congeners using analytical method EPA:1668A. Congeners are individual PCB compounds. Table 4.0 presents the total detected PCBs—the sum of detected PCB congeners—in each sample. The results are summarized below.

Location	Analyte	Field Prep	Result (µg/L)	Result (pg/L)	Lab Qual Code	Concat Flag Code	Fld QC Type Code
Buckman Diversion SW	Total detected PCBs	UF	<0.0000000	<0.00	U	U	
Buckman Diversion SW	Total detected PCBs	UF	<0.0000000	<0.00	U	U	FB

The sample and FB were reported as nondetect for PCBs by CFA, as indicated by the qualifier code "U." Individual congener results have not been included in this report but are available online at RACER NM (<http://www.racernm.com/>).

General Inorganics: Samples were submitted to GEL for the analysis of general inorganics. Field measurements were taken for dissolved oxygen, conductivity, temperature, turbidity, and pH. The results are summarized in Table 5.0 and discussed below.

- **Perchlorate:** The unfiltered perchlorate concentration was 0.08 µg/L. Currently, neither the federal government nor the State of New Mexico has established a drinking water standard for perchlorate.

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- **Cyanide, Fluoride, and Nitrate+Nitrite (as N):** All results were below EPA MCLs.
- **Chloride, Sulfate, Total Dissolved Solids, and pH:** All results were below EPA secondary drinking water standards.
- **Turbidity, Suspended Solids Concentration, and Streamflow:** Turbidity was measured at 44.2 nephelometric turbidity units (NTUs). Turbidity values in the Rio Grande at Buckman have ranged from 11 to 120 NTUs since July 2008.

The unfiltered suspended solids concentration (SSC) was 47.6 mg/L. Since July 2008, SSC values in the Rio Grande at Buckman have ranged from 16 to 316 mg/L.

The U.S. Geologic Survey (USGS) collects real-time streamflow data from the Rio Grande and Rio Chama upgradient of the Buckman sampling site. Daily mean discharge data for July 13, 2010, are presented below.

USGS Station Name	Date	Daily Mean Discharge (ft ³ /s)
Rio Grande at Otowi Bridge (USGS 08313000)	7/13/10	1,080
Rio Grande at Embudo (USGS 08279500)	7/13/10	311
Rio Chama near Chamita (USGS 08290000)	7/13/10	627

Source: <http://waterdata.usgs.gov/nm/nwis/current/?type=flow>.

Metals: Filtered and unfiltered samples were collected from the Rio Grande at Buckman and submitted to GEL for metals analysis. All results are summarized in Table 6.0. The concentrations of filtered and unfiltered metals were below the EPA national primary and secondary drinking water standards, with the exception of aluminum, iron, and manganese reported on page 1 of this report.

Particle Size: Results from the analytical laboratory were pending at the time this report was prepared.

In summary, all results presented in this report are below EPA drinking water standards, with the exception of unfiltered aluminum, iron, and manganese.

If you have any questions, please contact Bob Beers at (505) 667-7969 (bbeers@lanl.gov) or Nancy Werdel at (505) 665-3619 (nwerdel@doeal.gov).

Sincerely,

Sincerely,

Michael J. Graham, Associate Director
Environmental Programs
Los Alamos National Laboratory

George J. Rael, Manager
Environmental Projects Office
Los Alamos Site Office

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MG/GR/SV/BB:sm

Attachment: CD with Excel file of Tables 1.0–6.0 and glossary of laboratory qualification codes, secondary validation codes, and secondary validation reason codes (LA-UR-10-)

Cy: (w/enc.)

Virginia Vigil, Buckman Direct Diversion Board, Santa Fe, NM
Rick Carpenter, City of Santa Fe, Santa Fe, NM
Sandy Hurlocker, USDA, Santa Fe National Forest, Santa Fe, NM
Neil Weber, San Ildefonso Pueblo
Steve Yanicak, NMED-DOE-OB, MS M894
Hai Shen, DOE-LASO, MS A316
Gene Turner, DOE-LASO, MS A316
Bob Beers, ENV-RCRA, MS K490
RPF, MS M707 (with two CDs)

Cy: (Letter and CD and/or DVD only)

Laurie King, EPA Region 6, Dallas, TX
Steve Veenis, EP-CAP, MS K490
Danny Katzman, EP-ET-DO, MS M992
Suzanne Coyne, IRM-DCS, MS M992
Kristine Smeltz, EP-BPS, MS M992

Cy: (w/o enc.)

Tom Skibitski, NMED-OB, Santa Fe, NM
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Mike Saladen, ENV-RCRA, MS K490
Michael J. Graham, ADEP, MS M991
IRM-RMMSO, MS A150 (date-stamped letter emailed)

Table 1.0
Rio Grande at Buckman Diversion
Radionuclides

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Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code	Std Result	Units	Std Uncert	Std Mda	Lab Qual Code	Concat Flag Code	Sample Id	Lab Code	Ser Lvl	Ser Lvl Type Code
Buckman Diversion SW	7/13/10	Am-241	HASL-300:AM-241	F	< 0.002	pCi/L	0.003	0.034	U	U	CAWR-10-24221	GELC		
Buckman Diversion SW	7/13/10	Am-241	HASL-300:AM-241	UF	< 0.006	pCi/L	0.004	0.036	U	U	CAWR-10-24220	GELC		
Buckman Diversion SW	7/13/10	Co-60	EPA:901.1	F	< 0.238	pCi/L	1.9	6.2	U	U	CAWR-10-24221	GELC		
Buckman Diversion SW	7/13/10	Co-60	EPA:901.1	UF	< -0.805	pCi/L	1.6	5.1	U	U	CAWR-10-24220	GELC		
Buckman Diversion SW	7/13/10	Cs-137	EPA:901.1	F	< -2.89	pCi/L	1.5	4.2	U	U	CAWR-10-24221	GELC		
Buckman Diversion SW	7/13/10	Cs-137	EPA:901.1	UF	< 3.09	pCi/L	1.6	5.9	U	U	CAWR-10-24220	GELC		
Buckman Diversion SW	7/13/10	GROSSA	EPA:900	F	< 1.03	pCi/L	0.77	2.6	U	U	CAWR-10-24221	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	7/13/10	GROSSA	EPA:900	UF	< 0.657	pCi/L	0.66	2.5	U	U	CAWR-10-24220	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	7/13/10	GROSSB	EPA:900	F	< 0.742	pCi/L	0.86	3.0	U	U	CAWR-10-24221	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	7/13/10	GROSSB	EPA:900	UF	< 3.75	pCi/L	1	2.9			CAWR-10-24220	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	7/13/10	GROSSG	EPA:901.1	F	< 3.9	pCi/L	1.4	3.4		U	CAWR-10-24221	GELC		
Buckman Diversion SW	7/13/10	GROSSG	EPA:901.1	UF	< 5.3	pCi/L	2	12	U	U	CAWR-10-24220	GELC		
Buckman Diversion SW	7/13/10	K-40	EPA:901.1	F	< 34.3	pCi/L	20	75	U	U	CAWR-10-24221	GELC		
Buckman Diversion SW	7/13/10	K-40	EPA:901.1	UF	< 28.7	pCi/L	25	90	U	U	CAWR-10-24220	GELC		
Buckman Diversion SW	7/13/10	Na-22	EPA:901.1	F	< -3.2	pCi/L	1	2.6	U	U	CAWR-10-24221	GELC		
Buckman Diversion SW	7/13/10	Na-22	EPA:901.1	UF	< -1.8	pCi/L	1.3	3.6	U	U	CAWR-10-24220	GELC		
Buckman Diversion SW	7/13/10	Np-237	HASL-300:Np-237	F	< 0.011	pCi/L	0.01	0.03	U	U	CAWR-10-24221	GELC		
Buckman Diversion SW	7/13/10	Np-237	EPA:901.1	F	< 2.65	pCi/L	3	11	U	U	CAWR-10-24221	GELC		
Buckman Diversion SW	7/13/10	Np-237	HASL-300:Np-237	UF	< 0.003	pCi/L	0.004	0.018	U	U	CAWR-10-24220	GELC		
Buckman Diversion SW	7/13/10	Np-237	EPA:901.1	UF	< 0.198	pCi/L	3	9.9	U	U	CAWR-10-24220	GELC		
Buckman Diversion SW	7/13/10	Pu-238	HASL-300:ISOPU	F	< 0.0000	pCi/L	0.006	0.026	U	U	CAWR-10-24221	GELC		
Buckman Diversion SW	7/13/10	Pu-238	HASL-300:ISOPU	UF	< 0.0000	pCi/L	0.004	0.036	U	U	CAWR-10-24220	GELC		
Buckman Diversion SW	7/13/10	Pu-239/240	HASL-300:ISOPU	F	< -0.002	pCi/L	0.006	0.026	U	U	CAWR-10-24221	GELC		
Buckman Diversion SW	7/13/10	Pu-239/240	HASL-300:ISOPU	UF	< 0.008	pCi/L	0.01	0.04	U	U	CAWR-10-24220	GELC		
Buckman Diversion SW	7/13/10	Ra-226	EPA:903.1	F	< 0.224	pCi/L	0.08	0.16		U	CAWR-10-24221	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	7/13/10	Ra-226	EPA:903.1	UF	< -0.042	pCi/L	0.08	0.34	U	U	CAWR-10-24220	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	7/13/10	Ra-228	EPA:904	F	< 0.473	pCi/L	0.19	0.55	U	U	CAWR-10-24221	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	7/13/10	Ra-228	EPA:904	UF	< 2.42	pCi/L	0.50	1.1			CAWR-10-24220	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	7/13/10	Sr-90	EPA:905.0	F	< 0.304	pCi/L	0.13	0.39	U	U	CAWR-10-24221	GELC	8	EPA PRIM DW LVL
Buckman Diversion SW	7/13/10	Sr-90	EPA:905.0	UF	< -0.047	pCi/L	0.13	0.50	U	U	CAWR-10-24220	GELC	8	EPA PRIM DW LVL
Buckman Diversion SW	7/13/10	Th-228	HASL-300:ISOTH	F	< 0.000	pCi/L	0.006	0.035	U	U	CAWR-10-24221	GELC		
Buckman Diversion SW	7/13/10	Th-228	HASL-300:ISOTH	UF	< 0.073	pCi/L	0.016	0.035			CAWR-10-24220	GELC		
Buckman Diversion SW	7/13/10	Th-230	HASL-300:ISOTH	F	< 0.035	pCi/L	0.010	0.054	U	U	CAWR-10-24221	GELC		
Buckman Diversion SW	7/13/10	Th-230	HASL-300:ISOTH	UF	< 0.063	pCi/L	0.013	0.053			CAWR-10-24220	GELC		
Buckman Diversion SW	7/13/10	Th-232	HASL-300:ISOTH	F	< 0.004	pCi/L	0.003	0.025	U	U	CAWR-10-24221	GELC		
Buckman Diversion SW	7/13/10	Th-232	HASL-300:ISOTH	UF	< 0.049	pCi/L	0.011	0.024			CAWR-10-24220	GELC		
Buckman Diversion SW	7/13/10	U-234	HASL-300:ISOU	F	< 0.699	pCi/L	0.066	0.067			CAWR-10-24221	GELC		
Buckman Diversion SW	7/13/10	U-234	HASL-300:ISOU	UF	< 0.745	pCi/L	0.068	0.063			CAWR-10-24220	GELC		
Buckman Diversion SW	7/13/10	U-235/236	HASL-300:ISOU	F	< 0.026	pCi/L	0.009	0.040	U	U	CAWR-10-24221	GELC		
Buckman Diversion SW	7/13/10	U-235/236	HASL-300:ISOU	UF	< 0.021	pCi/L	0.008	0.038	U	U	CAWR-10-24220	GELC		
Buckman Diversion SW	7/13/10	U-238	HASL-300:ISOU	F	< 0.405	pCi/L	0.043	0.047			CAWR-10-24221	GELC		
Buckman Diversion SW	7/13/10	U-238	HASL-300:ISOU	UF	< 0.426	pCi/L	0.044	0.044			CAWR-10-24220	GELC		

Table 2.0
Rio Grande at Buckman Diversion
Volatile Organic Compounds (VOCs)

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Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep	Std Result	Units	Std Mdl	Lab Qual Code	Concat	Flag Code	Sample ID	Fld Qc Type Code	Lab Code
Buckman Diversion SW	7/13/10	67-64-1	Acetone	SW-846:8260B	UF	< 10.0	ug/L	3.5	U	UJ		CAWR-10-24220	GELC	
Buckinan Diversion SW	7/13/10	75-05-8	Acetonitrile	SW-846:8260B	UF	< 25.0	ug/L	6.3	U	R		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	107-02-8	Acrolein	SW-846:8260B	UF	< 5.0	ug/L	1.3	U	R		CAWR-10-24220	GELC	
Bucknan Diversion SW	7/13/10	107-13-1	Acrylonitrile	SW-846:8260B	UF	< 5.0	ug/L	1	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	71-43-2	Benzene	SW-846:8260B	UF	< 1.0	ug/L	0.3	U	U		CAWR-10-24220	GELC	
Bucknan Diversion SW	7/13/10	108-86-1	Bromobenzene	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Bucknan Diversion SW	7/13/10	74-97-5	Bromoform	SW-846:8260B	UF	< 1.0	ug/L	0.3	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	75-27-4	Bromochloromethane	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	75-25-2	Bromodichloromethane	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	75-25-2	Bromoform	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	74-83-9	Bromomethane	SW-846:8260B	UF	< 1.0	ug/L	0.3	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	71-36-3	Butanol[1-]	SW-846:8260B	UF	< 50.0	ug/L	15	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	78-93-3	Butanone[2-]	SW-846:8260B	UF	< 5.0	ug/L	1.3	U	UJ		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	75-15-0	Carbon Disulfide	SW-846:8260B	UF	< 5.0	ug/L	1.3	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	< 1.0	ug/L	0.3	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	< 1.0	ug/L	0.3	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	< 5.0	ug/L	1.5	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	108-90-7	Chlorobenzene	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	< 1.0	ug/L	0.3	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	75-00-3	Chloroethane	SW-846:8260B	UF	< 1.0	ug/L	0.3	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	67-66-3	Chloroform	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	74-87-3	Chloromethane	SW-846:8260B	UF	< 1.0	ug/L	0.3	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	< 1.0	ug/L	0.3	U	UJ		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	74-95-3	Dibromomethane	SW-846:8260B	UF	< 1.0	ug/L	0.3	U	U		CAWR-10-24220	GELC	
Buckinan Diversion SW	7/13/10	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	< 1.0	ug/L	0.3	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	< 1.0	ug/L	0.3	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	< 1.0	ug/L	0.3	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	< 1.0	ug/L	0.3	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	< 1.0	ug/L	0.3	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	< 1.0	ug/L	0.3	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	< 1.0	ug/L	0.3	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	60-29-7	Diethyl Ether	SW-846:8260B	UF	< 1.0	ug/L	0.3	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	< 5.0	ug/L	1	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	100-41-4	Ethylbenzene	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	< 1.0	ug/L	0.3	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	591-78-6	Hexanone[2-]	SW-846:8260B	UF	< 5.0	ug/L	1.3	U	UJ		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	74-88-4	Iodomethane	SW-846:8260B	UF	< 5.0	ug/L	1.3	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	< 50.0	ug/L	13	U	R		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	98-82-8	Isopropylbenzene	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	< 1.0	ug/L	0.25	U	U		CAWR-10-24220	GELC	

Table 2.0
Rio Grande at Buckman Diversion
Volatile Organic Compounds (VOCs)

DRAFT

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code	Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample ID	Fld Qc Type Code	Lab Code
Buckman Diversion SW	7/13/10	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	3	U	CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	CAWR-10-24220	GELC	
Buckman Diversion SW	7/13/10	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	R	CAWR-10-24220	GELC
Buckman Diversion SW	7/13/10	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24220	GELC
Buckman Diversion SW	7/13/10	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24220	GELC
Buckman Diversion SW	7/13/10	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24220	GELC
Buckman Diversion SW	7/13/10	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24220	GELC
Buckman Diversion SW	7/13/10	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24220	GELC
Buckman Diversion SW	7/13/10	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24220	GELC
Buckman Diversion SW	7/13/10	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-24220	GELC
Buckman Diversion SW	7/13/10	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-24220	GELC
Buckman Diversion SW	7/13/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24220	GELC
Buckman Diversion SW	7/13/10	71-55-6	Trichlorethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-24220	GELC
Buckman Diversion SW	7/13/10	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24220	GELC
Buckman Diversion SW	7/13/10	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24220	GELC
Buckman Diversion SW	7/13/10	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24220	GELC
Buckman Diversion SW	7/13/10	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24220	GELC
Buckman Diversion SW	7/13/10	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24220	GELC
Buckman Diversion SW	7/13/10	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24220	GELC
Buckman Diversion SW	7/13/10	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	0.5	U	U	CAWR-10-24220	GELC
Buckman Diversion SW	7/13/10	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-24220	GELC
Buckman Diversion SW	7/13/10	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24220	GELC
Buckman Diversion SW	7/13/10	lene[1,3 and Xylene[1,3-]+Xylene[1,4-]		SW-846:8260B	UF	<	2.0	ug/L	0.5	U	U	CAWR-10-24220	GELC
Buckman Diversion SW	7/13/10	67-64-1	Acetone	SW-846:8260B	UF	<	10.0	ug/L	3.5	U	UJ	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	6.3	U	R	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	R	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	74-97-5	Bromo(chloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	15	U	U	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB GELC
Buckman Diversion SW	7/13/10	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB GELC

Table 2.0
Rio Grande at Buckman Diversion
Volatile Organic Compounds (VOCs)

DRAFT

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample ID	Fld Qc Type Code	Lab Code
Buckman Diversion SW	7/13/10	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	UJ	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	13	U	R	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	3	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	R	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	0.5	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24225	FTB	GELC
Buckman Diversion SW	7/13/10	lene[1,3 and 1,4-]	Xylene[1,3-] + Xylene[1,4-]	SW-846:8260B	UF	<	2.0	ug/L	0.5	U	U	CAWR-10-24225	FTB	GELC

Table 3.0
Rio Grande at Buckman Diversion
Semivolatile Organic Compounds (SVOCs)

DRAFT

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code
Buckman Diversion SW	7/13/10	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1.04	ug/L	0.32	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	62-53-3	Aniline	SW-846:8270C	UF	<	10.4	ug/L	2.6	U	UJ	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	120-12-7	Anthracene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	1912-24-9	Atrazine	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	103-33-3	Azobenzene	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	92-87-5	Benzidine	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	UJ	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	20.8	ug/L	6.3	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	UJ	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	UJ	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	101-55-3	Bromophenyl-phenylether[4-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	59-50-7	Chloro-3-methylphenol[4-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	106-47-8	Chloroaniline[4-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	91-58-7	Chloronaphthalene[2-]	SW-846:8270C	UF	<	10.4	ug/L	0.31	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	95-57-8	Chlorophenol[2-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	7005-72-3	Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	218-01-9	Chrysene	SW-846:8270C	UF	<	10.4	ug/L	0.21	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1.0	ug/L	0.21	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	91-94-1	Dichlorobenzidine[3,3-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	20.8	ug/L	5.2	U	UJ	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC

DISMEL

Table 3.0
Rio Grande at Buckman Diversion
Semivolatile Organic Compounds (SVOCs)

DRAFT

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code
Buckman Diversion SW	7/13/10	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	88-85-7	Dinoseb	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	122-39-4	Diphenylamine	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	86-73-7	Fluorene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	UJ	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	UJ	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	193-39-5	Indeno(1,2,3-cd)pyrene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	78-59-1	Isophorone	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1.04	ug/L	0.31	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1.04	ug/L	0.31	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	91-20-3	Naphthalene	SW-846:8270C	UF	<	1.04	ug/L	0.31	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	UJ	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	UJ	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	UJ	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	108-95-2	Phenol	SW-846:8270C	UF	<	10.4	ug/L	1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	129-00-0	Pyrene	SW-846:8270C	UF	<	1.04	ug/L	0.31	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	110-86-1	Pyridine	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24220		GELC

DISVEL

Table 4.0
Rio Grande at Buckman Diversion
Pesticides/PCBs

DRAFT

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code
Buckman Diversion SW	7/13/10	309-00-2	Aldrin	SW-846:8081A	UF	<	0.022	ug/L	0.005	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.022	ug/L	0.005	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.022	ug/L	0.007	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.022	ug/L	0.005	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.022	ug/L	0.005	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.022	ug/L	0.005	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.022	ug/L	0.005	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.043	ug/L	0.011	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.043	ug/L	0.005	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.043	ug/L	0.011	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	60-57-1	Die�drin	SW-846:8081A	UF	<	0.043	ug/L	0.011	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.022	ug/L	0.005	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.043	ug/L	0.011	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.043	ug/L	0.011	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	72-20-8	Endrin	SW-846:8081A	UF	<	0.043	ug/L	0.011	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.043	ug/L	0.005	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.043	ug/L	0.011	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.022	ug/L	0.005	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.022	ug/L	0.005	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.215	ug/L	0.054	U	U	CAWR-10-24220		GELC
Buckman Diversion SW	7/13/10	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.538	ug/L	0.16	U	U	CAWR-10-24220		GELC
Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code
Buckman Diversion SW	7/13/10	1336-36-3	Total PCB	EPA:1668A	UF	<	0.00000000	ug/L		U	U	CAWR-10-24220		CFA
Buckman Diversion SW	7/13/10	1336-36-3	Total PCB	EPA:1668A	UF	<	0.00000000	ug/L		U	U	CAWR-10-24222	FB	CFA

Notes:

¹NA means that no MDL is available for Total PCB measurements because the result is a summation of individual congener values.

Table 5.0
Rio Grande at Buckman Diversion
General Inorganics

DRAFT

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code	Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Lab Code	Ser Lvl	Ser Lvl Type Code
Buckman Diversion SW	07/13/10	ALK-CO3	EPA:310.1	UF	< 1	mg/L	0.73	U	U	CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	ALK-CO3+HCO3	EPA:310.1	UF	98	mg/L	0.73			CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	Br(-1)	EPA:300.0	UF	< 0.20	mg/L	0.07	U	U	CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	CN(TOTAL)	EPA:335.4	UF	< 0.005	mg/L	0.002	U	U	CAWR-10-24220	GELC	0.2	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	Ca	SW-846:6010B	F	36.5	mg/L	0.05			CAWR-10-24221	GELC		
Buckman Diversion SW	07/13/10	Ca	SW-846:6010B	UF	38.5	mg/L	0.05			CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	Cl(-1)	EPA:300.0	UF	3.08	mg/L	0.066			CAWR-10-24220	GELC	250	EPA SEC DW LVL
Buckman Diversion SW	07/13/10	ClO4	SW-846:6850	UF	0.08	ug/L	0.05	J	J	CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	DO	Generic Field Measurement	UF	8.45	mg/L				CAWR-10-24220	FLD		
Buckman Diversion SW	07/13/10	F(-1)	EPA:300.0	UF	0.22	mg/L	0.033		J-	CAWR-10-24220	GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	HARDNESS	SM:A2340B	F	117	mg/L	0.35			CAWR-10-24221	GELC		
Buckman Diversion SW	07/13/10	HARDNESS	SM:A2340B	UF	124	mg/L	0.35			CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	K	SW-846:6010B	F	2.1	mg/L	0.05			CAWR-10-24221	GELC		
Buckman Diversion SW	07/13/10	K	SW-846:6010B	UF	2.2	mg/L	0.05			CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	Mg	SW-846:6010B	F	6.3	mg/L	0.09			CAWR-10-24221	GELC		
Buckman Diversion SW	07/13/10	Mg	SW-846:6010B	UF	6.7	mg/L	0.09			CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	NH3-N	EPA:350.1	UF	0.04	mg/L	0.016	J	J-	CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	NO3+NO2-N	EPA:353.2	UF	< 0.09	mg/L	0.05	J	U	CAWR-10-24220	GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	Na	SW-846:6010B	F	13.8	mg/L	0.10			CAWR-10-24221	GELC		
Buckman Diversion SW	07/13/10	Na	SW-846:6010B	UF	14.1	mg/L	0.10			CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	PO4-P	EPA:365.4	UF	0.1	mg/L	0.02		J	CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	SO4(2-)	EPA:300.0	UF	44.2	mg/L	1.00			CAWR-10-24220	GELC	250	EPA SEC DW LVL
Buckman Diversion SW	07/13/10	SPEC_COND C	NERIC FIELD CONDUCTIVI	UF	298	uS/cm				CAWR-10-24220	FLD		
Buckman Diversion SW	07/13/10	SPEC_COND C	EPA:120.1	UF	296	uS/cm	1.0			CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	SSC	EPA:160.2	UF	47.6	mg/L	2.3			CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	TDS	EPA:160.1	UF	212	mg/L	2.4			CAWR-10-24220	GELC	500	EPA SEC DW LVL
Buckman Diversion SW	07/13/10	TEMP	GENERIC FIELD TEMP	UF	20.5	deg C				CAWR-10-24220	FLD		
Buckman Diversion SW	07/13/10	TKN	EPA:351.2	UF	< 0.10	mg/L	0.033	U	U	CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	TOC	SW-846:9060	UF	3.8	mg/L	0.33			CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	TURB	GENERIC FIELD TURB	UF	44.2	NTU				CAWR-10-24220	FLD		
Buckman Diversion SW	07/13/10	pH	EPA:150.1	UF	8.29	SU	0.01	H	J-	CAWR-10-24220	GELC	6.5-8.5	EPA SEC DW LVL
Buckman Diversion SW	07/13/10	pH	GENERIC FIELD PH	UF	7.91	SU				CAWR-10-24220	FLD	6.5-8.5	EPA SEC DW LVL

Table 6.0
Rio Grande at Buckman Diversion
Metals

DRAFT

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code	Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Lab Code	Scr Lvl	Scr Lvl Type Code
Buckman Diversion SW	07/13/10	Ag	SW-846:6020	F	< 1	ug/L	0.2	U	U	CAWR-10-24221	GELC	100	EPA SEC DW LVL
Buckman Diversion SW	07/13/10	Ag	SW-846:6020	UF	< 1	ug/L	0.2	U	U	CAWR-10-24220	GELC	100	EPA SEC DW LVL
Buckman Diversion SW	07/13/10	Al	SW-846:6010B	F	< 200	ug/L	68	U	U	CAWR-10-24221	GELC	200	EPA SEC DW LVL
Buckman Diversion SW	07/13/10	Al	SW-846:6010B	UF	612	ug/L	68			CAWR-10-24220	GELC	200	EPA SEC DW LVL
Buckman Diversion SW	07/13/10	As	SW-846:6020	F	< 5	ug/L	1.5	U	U	CAWR-10-24221	GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	As	SW-846:6020	UF	< 5	ug/L	1.5	U	U	CAWR-10-24220	GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	B	SW-846:6010B	F	26.6	ug/L	15	J	J	CAWR-10-24221	GELC		
Buckman Diversion SW	07/13/10	B	SW-846:6010B	UF	27.4	ug/L	15	J	J	CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	Ba	SW-846:6010B	F	60	ug/L	1			CAWR-10-24221	GELC	2000	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	Ba	SW-846:6010B	UF	71	ug/L	1			CAWR-10-24220	GELC	2000	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	Be	SW-846:6010B	F	< 5	ug/L	1	U	U	CAWR-10-24221	GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	Be	SW-846:6010B	UF	< 5	ug/L	1	U	U	CAWR-10-24220	GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	Cd	SW-846:6020	F	< 1	ug/L	0.11	U	U	CAWR-10-24221	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	Cd	SW-846:6020	UF	< 1	ug/L	0.11	U	U	CAWR-10-24220	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	Co	SW-846:6010B	F	< 5.0	ug/L	1	U	U	CAWR-10-24221	GELC		
Buckman Diversion SW	07/13/10	Co	SW-846:6010B	UF	< 5.0	ug/L	1	U	U	CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	Cr	SW-846:6020	F	5.74	ug/L	2.5	J	J	CAWR-10-24221	GELC	100	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	Cr	SW-846:6020	UF	4.92	ug/L	2.5	J	J	CAWR-10-24220	GELC	100	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	Cu	SW-846:6010B	F	< 10	ug/L	3	U	U	CAWR-10-24221	GELC	1300	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	Cu	SW-846:6010B	UF	< 10	ug/L	3	U	U	CAWR-10-24220	GELC	1300	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	Fe	SW-846:6010B	F	< 100	ug/L	30	U	U	CAWR-10-24221	GELC	300	EPA SEC DW LVL
Buckman Diversion SW	07/13/10	Fe	SW-846:6010B	UF	428	ug/L	30			CAWR-10-24220	GELC	300	EPA SEC DW LVL
Buckman Diversion SW	07/13/10	Hg	EPA:245.2	F	< 0.2	ug/L	0.07	U	U	CAWR-10-24221	GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	Hg	EPA:245.2	UF	< 0.2	ug/L	0.07	U	U	CAWR-10-24220	GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	Mn	SW-846:6010B	F	4.46	ug/L	2	J	J	CAWR-10-24221	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	07/13/10	Mn	SW-846:6010B	UF	60.7	ug/L	2			CAWR-10-24220	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	07/13/10	Mo	SW-846:6020	F	3.5	ug/L	0.1			CAWR-10-24221	GELC		
Buckman Diversion SW	07/13/10	Mo	SW-846:6020	UF	3.03	ug/L	0.1			CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	Ni	SW-846:6020	F	1.4	ug/L	0.5	J	J	CAWR-10-24221	GELC		
Buckman Diversion SW	07/13/10	Ni	SW-846:6020	UF	1.7	ug/L	0.5	J	J	CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	Pb	SW-846:6020	F	< 2	ug/L	0.5	U	U	CAWR-10-24221	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	Pb	SW-846:6020	UF	0.7	ug/L	0.5	J	J	CAWR-10-24220	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	Sb	SW-846:6020	F	< 3	ug/L	0.5	U	U	CAWR-10-24221	GELC	6	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	Sb	SW-846:6020	UF	< 3	ug/L	0.5	U	U	CAWR-10-24220	GELC	6	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	Se	SW-846:6020	F	< 5	ug/L	1	U	U	CAWR-10-24221	GELC	50	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	Se	SW-846:6020	UF	< 5	ug/L	1	U	U	CAWR-10-24220	GELC	50	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	SiO2	SW-846:6010B	UF	17.7	mg/L	0.05			CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	Sn	SW-846:6010B	F	< 10	ug/L	2.5	U	U	CAWR-10-24221	GELC		
Buckman Diversion SW	07/13/10	Sn	SW-846:6010B	UF	< 10	ug/L	2.5	U	U	CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	Sr	SW-846:6010B	F	267	ug/L	1			CAWR-10-24221	GELC		
Buckman Diversion SW	07/13/10	Sr	SW-846:6010B	UF	278	ug/L	1			CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	Tl	SW-846:6020	F	< 1	ug/L	0.3	U	U	CAWR-10-24221	GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	Tl	SW-846:6020	UF	< 1	ug/L	0.3	U	U	CAWR-10-24220	GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	U	SW-846:6020	F	1.4	ug/L	0.05			CAWR-10-24221	GELC	30	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	U	SW-846:6020	UF	1.4	ug/L	0.05			CAWR-10-24220	GELC	30	EPA PRIM DW LVL
Buckman Diversion SW	07/13/10	V	SW-846:6010B	F	2.6	ug/L	1	J	J	CAWR-10-24221	GELC		
Buckman Diversion SW	07/13/10	V	SW-846:6010B	UF	4.1	ug/L	1	J	J	CAWR-10-24220	GELC		
Buckman Diversion SW	07/13/10	Zn	SW-846:6010B	F	< 10	ug/L	3.3	U	U	CAWR-10-24221	GELC	5000	EPA SEC DW LVL
Buckman Diversion SW	07/13/10	Zn	SW-846:6010B	UF	< 10.0	ug/L	3.3	U	U	CAWR-10-24220	GELC	5000	EPA SEC DW LVL