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Date: JAN 28 2011
Refer To: EP2011-0048

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 at Otowi Bridge

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 at Otowi Bridge. 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 650 µg/L; the EPA national secondary drinking water standard for aluminum is 50 µg/L to 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 411 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 63.7 µg/L; the EPA national secondary drinking water standard for manganese is 50 µg/L. The concentration of manganese in the filtered sample was 4.46 µg/L.

In a November 1, 2007, letter, the Buckman Direct Diversion (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, 9:55 a.m., sampling event at Otowi Bridge. The results from sampling the Rio Grande at Buckman were reported to your agency separately in a January 14, 2011, letter (EP2011-0029).

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Please be advised that the July 13, 2010, sampling of the Rio Grande at Otowi Bridge was the last surface water monitoring event conducted at this location under the above-referenced initiative; future monitoring will be executed pursuant to the May 13, 2010, memorandum of understanding regarding water quality between the BDD Board and the DOE.

Analytical results from the July 13, 2010, event are summarized in Tables 1.0 to 6.0. The attached CD also contains the following items: (1) a Desert Research Institute (DRI) geotechnical report for particle-size analysis; and (2) 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 Otowi Bridge and submitted to General Engineering Laboratories, Inc. (GEL) and American Radiation Services Laboratory, Inc. (ARSL) 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 unfiltered sample, as indicated by the analytical laboratory qualifier code "U." Gross-beta activity in the filtered sample was 4.07 pCi/L, below the EPA screening level of 50 pCi/L for gross beta in drinking water.

- **Tritium:** Tritium activity in the unfiltered sample was 11.8 pCi/L, below the EPA maximum contaminant level (MCL) of 20,000 pCi/L for tritium in drinking water and consistent with background atmospheric tritium levels in northern New Mexico of about 30 pCi/L.

- **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 and unfiltered samples, as indicated by the analytical laboratory qualifier code "U."

- **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 0.06 pCi/L. The EPA has not established a drinking water standard for thorium. Thorium, like uranium, occurs naturally in the environment.

- **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:

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

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)
Rio Grande at Otowi Bridge	F	1.1	1.4
Rio Grande at Otowi Bridge	UF	1.3	1.4

* F = Filtered; UF = unfiltered.

Organics: Samples were collected from the Rio Grande at Otowi Bridge 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 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
Rio Grande at Otowi Bridge	Total detected PCBs	UF	0.000039	39			
Rio Grande at Otowi Bridge	Total detected PCBs	UF	0.000073	73			FB

The concentration of total detected PCBs in the unfiltered sample and the filtered field blank were 0.000039 µg/L (39 pg/L) and 0.000073 µg/L (73 pg/L), respectively. The EPA MCL for total PCBs in drinking water is 0.5 µg/L. Individual congener results have not been included in this report but are available online at RACER NM (http://www.racernm.com/).

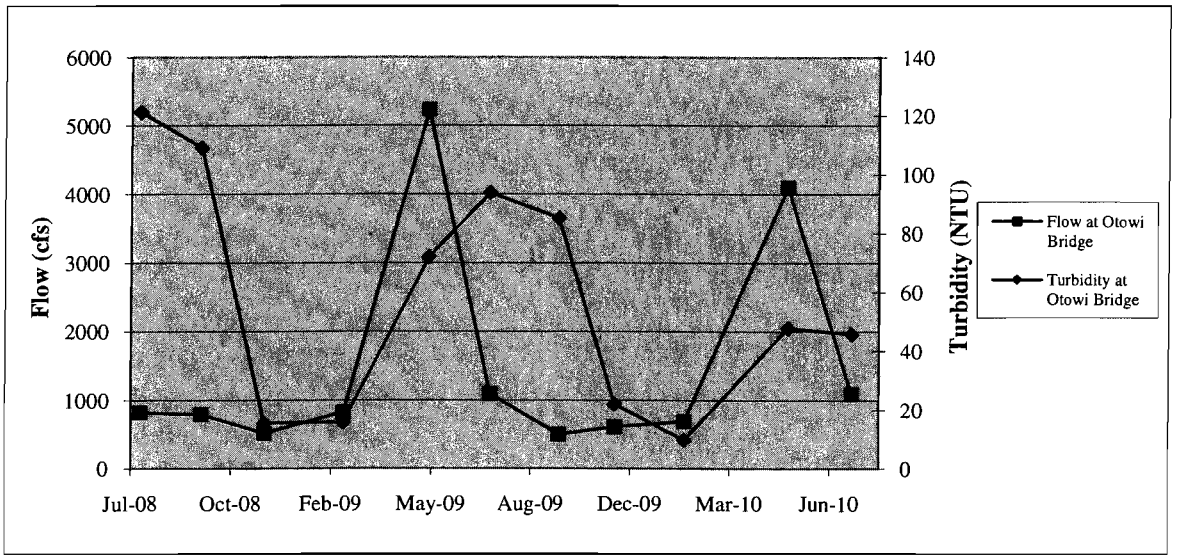
General Inorganics: Samples were submitted to GEL for the analysis of general inorganics. Field measurements were taken for dissolved oxygen, conductivity, temperature, turbidity, and pH. The results are summarized in Table 5.0 and discussed below.

- **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.

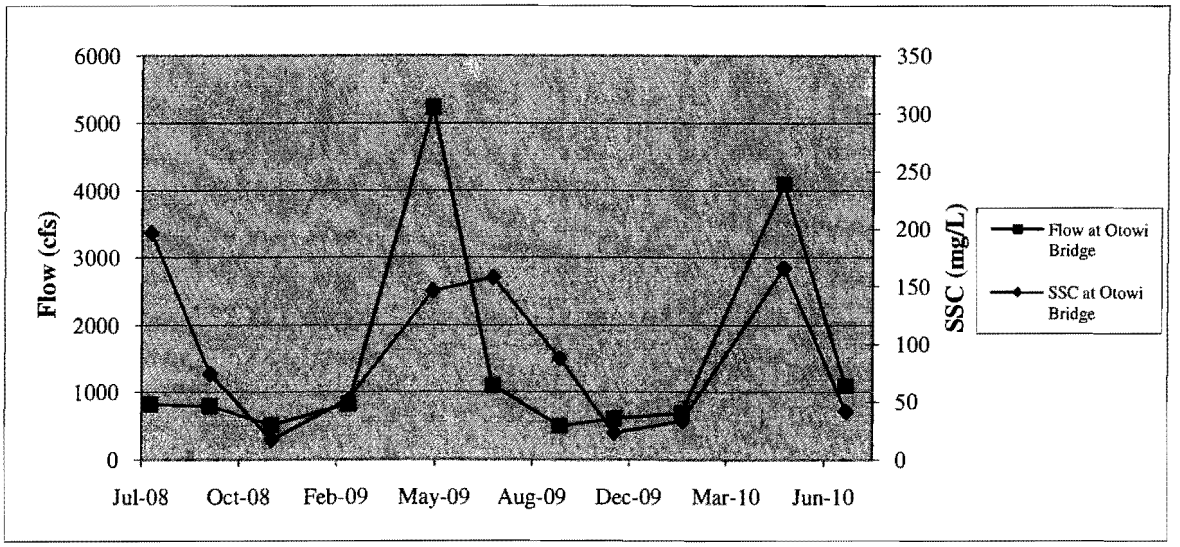
- **Cyanide, Fluoride, and Nitrate+Nitrite (as N):** All results were below EPA MCLs.

- **Chloride, Sulfate, Total Dissolved Solids, and pH:** All results were below EPA secondary drinking water standards.

- **Turbidity, Suspended Solids Concentration (SSC), and Streamflow:** Turbidity was measured at 45.7 nephelometric turbidity units (NTU). As shown in the figure below, turbidity values in the Rio Grande at Otowi Bridge have ranged from 10 to 121 NTU since July 2008.



The unfiltered SSC was 41.2 mg/L. As shown in the figure below, SSC values in the Rio Grande at Otowi Bridge have ranged from 17 to 196 mg/L since July 2008.



The U.S. Geologic Survey (USGS) collects real-time streamflow data from the Rio Grande and Rio Chama. 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	1080
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 Otowi Bridge 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 the naturally occurring aluminum, iron, and manganese reported on page 1 of this report.

Particle Size: An unfiltered sample (CAWR-10-24226) was submitted to the DRI, Reno, NV, for particle-size analysis (see the enclosed CD for a copy of the geotechnical report). The sand, silt, and clay contents of the sample are as follows:

- Sand 21.17%
- Silt 70.22%
- Clay 8.61%

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

If you have any questions, please contact Bob Beers at (505) 667-7969 (bbeers@lanl.gov) or Cheryl Rodriguez at (505) 665-5330 (crodriguez2@doeal.gov).

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Sincerely,

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

Sincerely,

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

MG/GR/SP/BB:sm

Attachment: CD with the following items:

(1) Geotechnical report from DRI for particle-size analysis
(2) Excel file of Tables 1.0–6.0 and glossary of laboratory qualification codes, secondary validation codes, and secondary validation reason codes (LA-UR-10-7579)

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Table 1.0
Rio Grande at Otowi Bridge
Radionuclides

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	Scr Lvl	Scr Lvl Type Code
Rio Grande at Otowi Bridge	7/13/10	Am-241	HASL-300:AM-241	F	<	-0.0015	pCi/L	0.003	0.034	U	U	CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	7/13/10	Am-241	HASL-300:AM-241	UF	<	-0.0102	pCi/L	0.005	0.033	U	U	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	7/13/10	Co-60	EPA:901.1	F	<	-0.634	pCi/L	1.6	5.1	U	U	CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	7/13/10	Co-60	EPA:901.1	UF	<	0.130	pCi/L	1.6	5.3	U	U	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	7/13/10	Cs-137	EPA:901.1	F	<	0.618	pCi/L	1.4	4.8	U	U	CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	7/13/10	Cs-137	EPA:901.1	UF	<	-1.05	pCi/L	1.3	4.2	U	U	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	7/13/10	GROSSA	EPA:900	F	<	2.91	pCi/L	1.1	2.5		U	CAWR-10-24227	GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	7/13/10	GROSSA	EPA:900	UF	<	1.75	pCi/L	0.76	2.0	U	U	CAWR-10-24226	GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	7/13/10	GROSSB	EPA:900	F		4.07	pCi/L	1.1	2.9			CAWR-10-24227	GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	7/13/10	GROSSB	EPA:900	UF	<	2.21	pCi/L	0.96	3.0	U	U	CAWR-10-24226	GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	7/13/10	GROSSG	EPA:901.1	F	<	51	pCi/L	21	120	U	U	CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	7/13/10	GROSSG	EPA:901.1	UF	<	3.6	pCi/L	1.2	4	U	U	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	7/13/10	H-3	Low_Level_Tritium	UF		11.75	pCi/L	1.88	1.92			CAWR-10-24226	ARSL	20,000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	7/13/10	K-40	EPA:901.1	F	<	-23.5	pCi/L	19	61	U	U	CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	7/13/10	K-40	EPA:901.1	UF	<	22.6	pCi/L	19	74	U	U	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	7/13/10	Na-22	EPA:901.1	F	<	-1.99	pCi/L	1.1	2.6	U	U	CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	7/13/10	Na-22	EPA:901.1	UF	<	-2.4	pCi/L	1.6	4.4	U	U	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	7/13/10	Np-237	HASL-300:Np-237	F	<	0.002	pCi/L	0.005	0.011	U	U	CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	7/13/10	Np-237	EPA:901.1	F	<	0.439	pCi/L	3.1	10	U	U	CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	7/13/10	Np-237	HASL-300:Np-237	UF	<	0.01	pCi/L	0.006	0.013	U	U	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	7/13/10	Np-237	EPA:901.1	UF	<	9.46	pCi/L	3.3	10	U	U	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	7/13/10	Pu-238	HASL-300:ISOPU	F	<	-0.005	pCi/L	0.004	0.030	U	U	CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	7/13/10	Pu-238	HASL-300:ISOPU	UF	<	0.005	pCi/L	0.004	0.034	U	U	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	7/13/10	Pu-239/240	HASL-300:ISOPU	F	<	0.009	pCi/L	0.01	0.03	U	U	CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	7/13/10	Pu-239/240	HASL-300:ISOPU	UF	<	0.008	pCi/L	0.01	0.04	U	U	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	7/13/10	Ra-226	EPA:903.1	F	<	0.064	pCi/L	0.06	0.21	U	U	CAWR-10-24227	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	7/13/10	Ra-226	EPA:903.1	UF	<	0.254	pCi/L	0.13	0.41	U	U	CAWR-10-24226	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	7/13/10	Ra-228	EPA:904	F	<	0.302	pCi/L	0.15	0.46	U	U	CAWR-10-24227	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	7/13/10	Ra-228	EPA:904	UF	<	0.297	pCi/L	0.16	0.50	U	U	CAWR-10-24226	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	7/13/10	Sr-90	EPA:905.0	F	<	-0.148	pCi/L	0.12	0.49	U	U	CAWR-10-24227	GELC	8	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	7/13/10	Sr-90	EPA:905.0	UF	<	0.330	pCi/L	0.16	0.50	U	U	CAWR-10-24226	GELC	8	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	7/13/10	Th-228	HASL-300:ISOTH	F	<	-0.010	pCi/L	0.008	0.035	U	U	CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	7/13/10	Th-228	HASL-300:ISOTH	UF		0.057	pCi/L	0.014	0.034			CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	7/13/10	Th-230	HASL-300:ISOTH	F	<	0.025	pCi/L	0.008	0.052	U	U	CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	7/13/10	Th-230	HASL-300:ISOTH	UF		0.057	pCi/L	0.013	0.052			CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	7/13/10	Th-232	HASL-300:ISOTH	F	<	0.002	pCi/L	0.002	0.024	U	U	CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	7/13/10	Th-232	HASL-300:ISOTH	UF		0.032	pCi/L	0.009	0.024			CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	7/13/10	U-234	HASL-300:ISOU	F		0.748	pCi/L	0.071	0.072			CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	7/13/10	U-234	HASL-300:ISOU	UF		0.688	pCi/L	0.065	0.066			CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	7/13/10	U-235/236	HASL-300:ISOU	F	<	0.041	pCi/L	0.012	0.043	U	U	CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	7/13/10	U-235/236	HASL-300:ISOU	UF	<	0.032	pCi/L	0.011	0.040	U	U	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	7/13/10	U-238	HASL-300:ISOU	F		0.366	pCi/L	0.041	0.050			CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	7/13/10	U-238	HASL-300:ISOU	UF		0.441	pCi/L	0.046	0.046			CAWR-10-24226	GELC		

Table 2.0
Rio Grande at Otowi Bridge
Volatile Organic Compounds (VOCs)

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
Rio Grande at Otowi Bridge	7/13/10	67-64-1	Acetone	SW-846:8260B	UF	<	10.0	ug/L	3.5	U	UJ	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	6.3	U	R	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	R	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	15	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	UJ	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	13	U	R	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC

Table 2.0
Rio Grande at Otowi Bridge
Volatile Organic Compounds (VOCs)

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
Rio Grande at Otowi Bridge	7/13/10	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	R	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	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-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	0.5	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	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-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	67-64-1	Acetone	SW-846:8260B	UF	<	10.0	ug/L	3.5	U	UJ	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	6.3	U	R	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	R	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	15	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC

Table 2.0
Rio Grande at Otowi Bridge
Volatile Organic Compounds (VOCs)

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
Rio Grande at Otowi Bridge	7/13/10	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	UJ	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	13	U	R	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	R	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	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-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	0.5	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	7/13/10	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-24229	FTB	GELC
Rio Grande at Otowi Bridge	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-10-24229	FTB	GELC

Table 3.0
Rio Grande at Otowi Bridge
Semivolatile Organic Compounds (SVOCs)

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
Rio Grande at Otowi Bridge	7/13/10	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1.04	ug/L	0.32	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	62-53-3	Aniline	SW-846:8270C	UF	<	10.4	ug/L	2.6	U	UJ	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	120-12-7	Anthracene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	1912-24-9	Atrazine	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	103-33-3	Azobenzene	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	92-87-5	Benzidine	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	UJ	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	20.8	ug/L	6.3	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	UJ	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	UJ	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	101-55-3	Bromophenyl-phenylether[4-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	59-50-7	Chloro-3-methylphenol[4-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	106-47-8	Chloroaniline[4-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	91-58-7	Chloronaphthalene[2-]	SW-846:8270C	UF	<	1.04	ug/L	0.31	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	95-57-8	Chlorophenol[2-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	7005-72-3	Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	218-01-9	Chrysene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1.0	ug/L	0.21	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	20.8	ug/L	5.2	U	UJ	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC

Table 3.0
Rio Grande at Otowi Bridge
Semivolatile Organic Compounds (SVOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sanple Id	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	7/13/10	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	88-85-7	Dinoseb	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	122-39-4	Diphenylamine	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	86-73-7	Fluorene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	UJ	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	UJ	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	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-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	78-59-1	Isophorone	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1.04	ug/L	0.31	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1.04	ug/L	0.31	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	91-20-3	Naphthalene	SW-846:8270C	UF	<	1.04	ug/L	0.31	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	UJ	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	UJ	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	UJ	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1.04	ug/L	0.21	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	108-95-2	Phenol	SW-846:8270C	UF	<	10.4	ug/L	1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	129-00-0	Pyrene	SW-846:8270C	UF	<	1.04	ug/L	0.31	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	110-86-1	Pyridine	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	10.4	ug/L	3.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	10.4	ug/L	2.1	U	U	CAWR-10-24226		GELC

Table 4.0
Rio Grande at Otowi Bridge
Pesticides/PCBs

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
Rio Grande at Otowi Bridge	7/13/10	309-00-2	Aldrin	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.02	ug/L	0.006	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.005	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	72-20-8	Endrin	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.04	ug/L	0.005	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.20	ug/L	0.05	U	U	CAWR-10-24226		GELC
Rio Grande at Otowi Bridge	7/13/10	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.50	ug/L	0.15	U	U	CAWR-10-24226		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**
Rio Grande at Otowi Bridge	7/13/10	1336-36-3	Total PCB	EPA:1668A	UF		0.000039	ug/L	NA			CAWR-10-24226		CFA
Rio Grande at Otowi Bridge	7/13/10	1336-36-3	Total PCB	EPA:1668A	UF		0.000073	ug/L	NA			CAWR-10-24228	FB	CFA

Notes:
NA 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 Otowi Bridge
General Inorganics

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
Rio Grande at Otowi Bridge	07/13/10	ALK-CO3	EPA:310.1	UF	<	1	mg/L	0.73	U	U	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	ALK-CO3+HCO3	EPA:310.1	UF		97.4	mg/L	0.73			CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	Br(-1)	EPA:300.0	UF	<	0.20	mg/L	0.07	U	U	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	CN(TOTAL)	EPA:335.4	UF	<	0.005	mg/L	0.002	U	U	CAWR-10-24226	GELC	0.2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	Ca	SW-846:6010B	F		35.9	mg/L	0.05			CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	07/13/10	Ca	SW-846:6010B	UF		38.4	mg/L	0.05			CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	Cl(-1)	EPA:300.0	UF		3.09	mg/L	0.066			CAWR-10-24226	GELC	250	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/13/10	ClO4	SW-846:6850	UF		0.08	ug/L	0.05	J	J	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	DO	Field Measurement	UF		7.61	mg/L				CAWR-10-24226	FLD		
Rio Grande at Otowi Bridge	07/13/10	F(-1)	EPA:300.0	UF		0.22	mg/L	0.033		J-	CAWR-10-24226	GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	HARDNESS	SM:A2340B	F		115	mg/L	0.35			CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	07/13/10	HARDNESS	SM:A2340B	UF		124	mg/L	0.35			CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	K	SW-846:6010B	F		2.0	mg/L	0.05			CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	07/13/10	K	SW-846:6010B	UF		2.3	mg/L	0.05			CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	Mg	SW-846:6010B	F		6.2	mg/L	0.09			CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	07/13/10	Mg	SW-846:6010B	UF		6.8	mg/L	0.09			CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	NH3-N	EPA:350.1	UF		0.07	mg/L	0.016		J-	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	NO3+NO2-N	EPA:353.2	UF	<	0.05	mg/L	0.05	J	U	CAWR-10-24226	GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	Na	SW-846:6010B	F		13.6	mg/L	0.10			CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	07/13/10	Na	SW-846:6010B	UF		14.1	mg/L	0.10			CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	PO4-P	EPA:365.4	UF		0.1	mg/L	0.02		J	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	SO4(-2)	EPA:300.0	UF		43.6	mg/L	1.0			CAWR-10-24226	GELC	250	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/13/10	SPEC_CONDC	EPA:120.1	UF		299	uS/cm	1			CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	SPEC_CONDC	FIELD CONDUCTIVITY	UF		298	uS/cm				CAWR-10-24226	FLD		
Rio Grande at Otowi Bridge	07/13/10	SSC	EPA:160.2	UF		41.2	mg/L	2.3			CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	TDS	EPA:160.1	UF		206	mg/L	2.4			CAWR-10-24226	GELC	500	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/13/10	TEMP	FIELD TEMP	UF		19.3	deg C				CAWR-10-24226	FLD		
Rio Grande at Otowi Bridge	07/13/10	TKN	EPA:351.2	UF	<	0.10	mg/L	0.033	U	U	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	TOC	SW-846:9060	UF		3.9	mg/L	0.33			CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	TURB	FIELD TURB	UF		45.7	NTU				CAWR-10-24226	FLD		
Rio Grande at Otowi Bridge	07/13/10	pH	FIELD PH	UF		7.65	SU				CAWR-10-24226	FLD	6.5-8.5	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/13/10	pH	EPA:150.1	UF		8.24	SU	0.01	H	J-	CAWR-10-24226	GELC	6.5-8.5	EPA SEC DW LVL

Table 6.0
Rio Grande at Otowi Bridge
Metals

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
Rio Grande at Otowi Bridge	07/13/10	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	CAWR-10-24227	GELC	100	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/13/10	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	CAWR-10-24226	GELC	100	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/13/10	Al	SW-846:6010B	F	<	200	ug/L	68	U	U	CAWR-10-24227	GELC	200	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/13/10	Al	SW-846:6010B	UF		650	ug/L	68			CAWR-10-24226	GELC	200	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/13/10	As	SW-846:6020	F	<	5	ug/L	1.5	U	U	CAWR-10-24227	GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	As	SW-846:6020	UF	<	5	ug/L	1.5	U	U	CAWR-10-24226	GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	B	SW-846:6010B	F		24.8	ug/L	15	J	J	CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	07/13/10	B	SW-846:6010B	UF		27.1	ug/L	15	J	J	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	Ba	SW-846:6010B	F		59	ug/L	1			CAWR-10-24227	GELC	2000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	Ba	SW-846:6010B	UF		74	ug/L	1			CAWR-10-24226	GELC	2000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	CAWR-10-24227	GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U	CAWR-10-24226	GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	CAWR-10-24227	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	Cd	SW-846:6020	UF	<	1	ug/L	0.11	U	U	CAWR-10-24226	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	Co	SW-846:6010B	F	<	5.0	ug/L	1	U	U	CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	07/13/10	Co	SW-846:6010B	UF	<	5.0	ug/L	1	U	U	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	Cr	SW-846:6020	F		4.52	ug/L	2.5	J	J	CAWR-10-24227	GELC	100	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	Cr	SW-846:6020	UF		5.61	ug/L	2.5	J	J	CAWR-10-24226	GELC	100	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	CAWR-10-24227	GELC	1300	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	Cu	SW-846:6010B	UF	<	10	ug/L	3	U	U	CAWR-10-24226	GELC	1300	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	Fe	SW-846:6010B	F	<	100	ug/L	30	U	U	CAWR-10-24227	GELC	300	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/13/10	Fe	SW-846:6010B	UF		411	ug/L	30			CAWR-10-24226	GELC	300	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/13/10	Hg	EPA:245.2	F	<	0.2	ug/L	0.066	U	U	CAWR-10-24227	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	Hg	EPA:245.2	UF	<	0.2	ug/L	0.066	U	U	CAWR-10-24226	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	Mn	SW-846:6010B	F		4.46	ug/L	2	J	J	CAWR-10-24227	GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/13/10	Mn	SW-846:6010B	UF		63.7	ug/L	2			CAWR-10-24226	GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/13/10	Mo	SW-846:6020	F		3.56	ug/L	0.1			CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	07/13/10	Mo	SW-846:6020	UF		3.13	ug/L	0.1			CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	Ni	SW-846:6020	F		1.5	ug/L	0.5	J	J	CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	07/13/10	Ni	SW-846:6020	UF		1.9	ug/L	0.5	J	J	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U	CAWR-10-24227	GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	Pb	SW-846:6020	UF		0.8	ug/L	0.5	J	J	CAWR-10-24226	GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	Sb	SW-846:6020	F	<	3	ug/L	0.5	U	U	CAWR-10-24227	GELC	6	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	Sb	SW-846:6020	UF	<	3	ug/L	0.5	U	U	CAWR-10-24226	GELC	6	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	Se	SW-846:6020	F	<	5	ug/L	1	U	U	CAWR-10-24227	GELC	50	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	CAWR-10-24226	GELC	50	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	SiO2	SW-846:6010B	UF		18.9	mg/L	0.05			CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	Sn	SW-846:6010B	F	<	10	ug/L	2.5	U	U	CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	07/13/10	Sn	SW-846:6010B	UF	<	10	ug/L	2.5	U	U	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	Sr	SW-846:6010B	F		263	ug/L	1			CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	07/13/10	Sr	SW-846:6010B	UF		278	ug/L	1			CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	Tl	SW-846:6020	F	<	1	ug/L	0.3	U	U	CAWR-10-24227	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	Tl	SW-846:6020	UF	<	1	ug/L	0.3	U	U	CAWR-10-24226	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	U	SW-846:6020	F		1.4	ug/L	0.05			CAWR-10-24227	GELC	30	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	U	SW-846:6020	UF		1.4	ug/L	0.05			CAWR-10-24226	GELC	30	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/13/10	V	SW-846:6010B	F		2.7	ug/L	1	J	J	CAWR-10-24227	GELC		
Rio Grande at Otowi Bridge	07/13/10	V	SW-846:6010B	UF		3.8	ug/L	1	J	J	CAWR-10-24226	GELC		
Rio Grande at Otowi Bridge	07/13/10	Zn	SW-846:6010B	F	<	10	ug/L	3.3	U	U	CAWR-10-24227	GELC	5000	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/13/10	Zn	SW-846:6010B	UF		3.6	ug/L	3.3	J	J	CAWR-10-24226	GELC	5000	EPA SEC DW LVL

Table 2.1: Suspended Sediment Concentration and Laser Particle Size Analysis Results for LANL Request No. 10-3670

| LabID | Received | Field ID | SSC (g/L) | Tot. Solids (g) | H2O Bottle (mL) | Laser Particle Size Analysis Run info | | | Geometric | | % Particle Size, low diameter (um) | | |