

Table 6. Summary statistics for water temperature measurements by sample year, date of deployment, season, and site listed from upstream to downstream. [Water temperature in Celsius; N, number of observations; Std. Dev., standard deviation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc.; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. Water temperature values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Minimum	Average	Maximum	Std. Dev.	Variance
Water Quality Summary by Site and Date in Sampling Year 1								
Rio Grande at Bernalillo, NM	Nike	7/21/2006	663	18.8	23.3	26.6	1.5	2.3
Rio Grande at Alameda, NM	Athena	7/21/2006	509	19.7	25.0	29.4	2.4	5.8
Rio Grande at Los Lunas, NM	Nike	7/17/2006	365	21.2	28.2	38.4	4.8	23.1
Rio Grande at La Joya, NM	Athena	7/17/2006	374	22.6	26.7	32.2	2.8	7.9
Rio Grande near San Antonio, NM	Apollo	7/17/2006	301	21.6	27.4	37.0	4.3	18.5
Rio Grande at Bernalillo, NM	Athena	10/6/2006	654	11.2	16.2	20.2	1.9	3.7
Rio Grande at Bernalillo, NM	Hermes	10/6/2006	182	16.9	17.9	20.0	0.9	0.8
Rio Grande at Alameda, NM	Nike	10/6/2006	279	12.9	17.5	21.9	2.0	4.1
Rio Grande at Alameda, NM	Phoebe	10/6/2006	403	12.3	16.5	21.8	2.2	4.7
Rio Grande at Los Padillas, NM	Apollo	10/6/2006	389	13.7	18.5	24.2	2.6	6.6
Rio Grande at Los Padillas, NM	Homer	10/6/2006	451	12.7	18.0	24.1	2.7	7.1
Rio Grande at Los Padillas, NM	Apollo	10/13/2006	379	12.4	15.4	18.3	1.4	1.9
Rio Grande at Los Padillas, NM	Homer	10/13/2006	583	10.3	15.1	18.7	1.8	3.1
Rio Grande at Los Lunas, NM	Nike	10/13/2006	481	8.6	14.7	18.1	2.2	4.9
Rio Grande at Los Lunas, NM	Phoebe	10/13/2006	474	10.1	14.6	17.5	1.9	3.5
Rio Grande at La Joya, NM	Athena	10/13/2006	335	11.2	15.5	17.0	0.7	0.5
Rio Grande at La Joya, NM	Hermes	10/13/2006	210	14.3	15.5	16.8	0.6	0.3
Rio Grande at Bernalillo, NM	Homer	1/22/2007	365	0.4	2.5	4.0	0.9	0.7
Rio Grande at Bernalillo, NM	Athena	2/2/2007	378	0.8	3.2	5.5	1.1	1.2
Rio Grande at Alameda, NM	Hermes	1/22/2007	239	0.7	2.6	5.1	1.2	1.4
Rio Grande at Los Padillas, NM	Athena	1/22/2007	385	1.5	4.3	7.0	1.4	2.0
Rio Grande at Los Padillas, NM	Phoebe	1/22/2007	370	1.1	3.8	6.6	1.4	2.0
Rio Grande at Los Lunas, NM	Homer	1/26/2007	540	3.9	6.0	8.0	1.0	1.1

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Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Minimum	Average	Maximum	Std. Dev.	Variance
Rio Grande at La Joya, NM	Hermes	1/26/2007	594	4.0	5.8	8.0	1.0	1.0
Rio Grande near San Antonio, NM	Athena	1/26/2007	643	1.8	5.4	9.2	1.6	2.5
Rio Grande near San Antonio, NM	Phoebe	1/26/2007	399	2.1	5.0	8.1	1.4	1.9
Rio Grande at Bernalillo, NM	Phoebe	4/20/2007	28	13.2	14.2	14.6	0.4	0.1
Rio Grande at Alameda, NM	Nike	4/20/2007	654	9.7	13.0	16.6	1.7	3.0
Rio Grande at Alameda, NM	Hermes	4/20/2007	321	9.6	12.6	14.6	1.4	1.9
Rio Grande at Los Padillas, NM	Apollo	4/20/2007	280	9.7	13.9	18.3	2.2	4.6
Rio Grande at Los Padillas, NM	Homer	4/20/2007	655	9.5	14.4	21.0	2.5	6.5
Rio Grande at Los Lunas, NM	Athena	4/13/2007	90	9.2	9.9	11.2	0.7	0.5
Rio Grande at Los Lunas, NM	Phoebe	4/13/2007	66	8.3	9.7	10.8	0.9	0.7
Rio Grande at La Joya, NM	Apollo	4/17/2007	275	13.2	15.8	18.3	1.5	2.4
Rio Grande at La Joya, NM	Hermes	4/17/2007	272	13.2	15.6	18.1	1.5	2.4
Rio Grande near San Antonio, NM	Nike	4/17/2007	289	10.7	15.5	19.5	2.2	4.8
Rio Grande near San Antonio, NM	Homer	4/17/2007	276	11.3	15.3	19.4	2.3	5.2
Water Quality Summary by Site and Date in Sampling Year 2								
Rio Grande at Bernalillo, NM	Apollo	10/26/2007	548	9.8	12.9	15.8	1.4	2.0
Rio Grande at Bernalillo, NM	Phoebe	10/26/2007	548	9.5	12.6	15.5	1.4	2.1
Rio Grande at Alameda, NM	Athena	10/26/2007	548	9.4	13.0	16.8	2.1	4.3
Rio Grande at Alameda, NM	Hermes	10/26/2007	378	9.4	13.3	16.8	2.1	4.3
Rio Grande at Los Padillas, NM	Nike	10/26/2007	563	10.9	15.6	20.8	2.5	6.4
Rio Grande at Los Padillas, NM	Marge	10/26/2007	563	10.0	15.5	20.8	2.8	7.7
Rio Grande at Los Lunas, NM	Nike	10/22/2007	371	3.6	12.0	21.1	4.6	20.9
Rio Grande at Los Lunas, NM	Hermes	10/22/2007	136	3.6	11.4	21.0	5.6	31.2
Rio Grande at La Joya, NM	Athena	10/22/2007	374	7.1	11.7	16.1	2.3	5.3

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Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Minimum	Average	Maximum	Std. Dev.	Variance
Rio Grande at La Joya, NM	Marge	10/22/2007	374	6.9	11.5	16.0	2.3	5.4
Rio Grande near San Antonio, NM	Apollo	10/22/2007	377	4.9	10.8	16.6	3.0	8.9
Rio Grande near San Antonio, NM	Phoebe	10/22/2007	377	4.5	10.4	17.2	3.3	10.6
Rio Grande at Bernalillo, NM	Nike	1/26/2008	459	-0.1	2.4	6.1	1.3	1.7
Rio Grande at Bernalillo, NM	Marge	1/26/2008	459	-0.2	2.3	6.0	1.3	1.7
Rio Grande at Alameda, NM	Apollo	1/26/2008	460	1.2	3.9	8.0	1.6	2.6
Rio Grande at Alameda, NM	Phoebe	1/26/2008	446	0.8	3.7	7.7	1.6	2.5
Rio Grande at Los Padillas, NM	Athena	1/26/2008	459	0.1	4.2	9.2	2.2	4.6
Rio Grande at Los Padillas, NM	Hermes	1/26/2008	388	1.0	4.6	9.0	1.8	3.3
Rio Grande at Los Lunas, NM	Athena	1/24/2008	199	3.9	5.4	7.4	1.1	1.1
Rio Grande at Los Lunas, NM	Phoebe	1/24/2008	199	3.3	5.0	7.0	1.1	1.2
Rio Grande at La Joya, NM	Nike	1/22/2008	357	2.3	4.6	6.6	1.0	1.1
Rio Grande at La Joya, NM	Marge	1/22/2008	357	2.2	4.6	6.5	1.0	1.1
Rio Grande near San Antonio, NM	Apollo	1/22/2008	371	0.7	4.0	8.0	1.4	2.1
Rio Grande near San Antonio, NM	Hermes	1/22/2008	296	0.9	4.0	7.9	1.4	2.1
Rio Grande at Bernalillo, NM	Apollo	4/11/2008	484	7.9	10.6	13.8	1.7	3.0
Rio Grande at Bernalillo, NM	Hermes	4/11/2008	100	8.4	10.5	13.5	1.5	2.3
Rio Grande at Alameda, NM	Athena	4/11/2008	480	8.2	11.3	13.9	1.5	2.2
Rio Grande at Alameda, NM	Marge	4/11/2008	462	8.0	11.1	13.8	1.5	2.2
Rio Grande at Los Padillas, NM	Nike	4/11/2008	491	8.2	12.0	17.2	2.0	4.0
Rio Grande at Los Padillas, NM	Phoebe	4/11/2008	500	7.9	11.8	16.9	2.1	4.4
Rio Grande at Los Lunas, NM	Athena	4/7/2008	164	9.1	12.3	15.4	2.1	4.6
Rio Grande at Los Lunas, NM	Hermes	4/7/2008	59	8.7	12.6	15.1	2.4	5.8
Rio Grande at La Joya, NM	Apollo	4/7/2008	273	10.2	13.5	15.5	1.4	1.9

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Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Minimum	Average	Maximum	Std. Dev.	Variance
Rio Grande at La Joya, NM	Hermes	4/7/2008	252	9.9	13.4	15.2	1.2	1.3
Rio Grande near San Antonio, NM	Nike	4/7/2008	287	10.5	13.7	16.8	1.7	3.0
Rio Grande at Bernalillo, NM	Phoebe	7/11/2008	561	19.5	22.1	24.7	1.2	1.5
Rio Grande at Alameda, NM	Athena	7/11/2008	523	20.9	23.1	27.3	1.5	2.1
Rio Grande at Alameda, NM	Hermes	7/11/2008	549	20.7	22.9	27.0	1.4	2.0
Rio Grande at Los Padillas, NM	Marge	7/11/2008	146	21.3	23.8	27.2	1.4	1.9
Rio Grande at Los Lunas, NM	Marge	7/7/2008	270	19.1	23.1	27.4	1.9	3.7
Rio Grande at La Joya, NM	Athena	7/7/2008	222	21.2	23.8	26.4	1.4	1.9
Rio Grande at La Joya, NM	Phoebe	7/7/2008	104	22.6	24.3	26.1	1.1	1.2
Rio Grande near San Antonio, NM	Apollo	7/7/2008	381	21.7	23.6	27.0	1.3	1.8
Rio Grande near San Antonio, NM	Hermes	7/7/2008	26	24.3	25.6	26.8	0.8	0.7
Water Quality Summary by Season								
Site Name	Season of Deployment		N	Minimum	Average	Maximum	Std. Dev.	Variance
Rio Grande at Bernalillo, NM	Spring		612	7.9	10.8	14.6	1.8	3.3
Rio Grande at Alameda, NM	Spring		1,917	8.0	12.1	16.6	1.8	3.2
Rio Grande at Los Padillas, NM	Spring		1,926	7.9	13.0	21.0	2.5	6.5
Rio Grande at Los Lunas, NM	Spring		379	8.3	11.3	15.4	2.2	4.7
Rio Grande at La Joya, NM	Spring		1,072	9.9	14.6	18.3	1.8	3.3
Rio Grande near San Antonio, NM	Spring		852	10.5	14.8	19.5	2.2	5.0
Rio Grande at Bernalillo, NM	Summer		1,224	18.8	22.8	26.6	1.5	2.3
Rio Grande at Alameda, NM	Summer		1,581	19.7	23.6	29.4	2.0	4.1
Rio Grande at Los Padillas, NM	Summer		146	21.3	23.8	27.2	1.4	1.9
Rio Grande at Los Lunas, NM	Summer		635	19.1	26.0	38.4	4.6	21.2
Rio Grande at La Joya, NM	Summer		700	21.2	25.4	32.2	2.6	6.8

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Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Minimum	Average	Maximum	Std. Dev.	Variance
Rio Grande near San Antonio, NM		Summer	708	21.6	25.3	37.0	3.5	12.3
Rio Grande at Bernalillo, NM		Fall	1,932	9.5	14.4	20.2	2.5	6.3
Rio Grande at Alameda, NM		Fall	1,620	9.4	14.7	21.9	2.8	8.0
Rio Grande at Los Padillas, NM		Fall	2,928	10.0	16.2	24.2	2.7	7.2
Rio Grande at Los Lunas, NM		Fall	1,462	3.6	13.7	21.1	3.6	12.8
Rio Grande at La Joya, NM		Fall	1,293	6.9	13.2	17.0	2.6	7.0
Rio Grande near San Antonio, NM		Fall	754	4.5	10.6	17.2	3.1	9.8
Rio Grande at Bernalillo, NM		Winter	1,661	-0.2	2.6	6.1	1.2	1.5
Rio Grande at Alameda, NM		Winter	1,145	0.7	3.6	8.0	1.6	2.6
Rio Grande at Los Padillas, NM		Winter	1,602	0.1	4.2	9.2	1.8	3.1
Rio Grande at Los Lunas, NM		Winter	938	3.3	5.6	8.0	1.1	1.3
Rio Grande at La Joya, NM		Winter	1,308	2.2	5.1	8.0	1.2	1.4
Rio Grande near San Antonio, NM		Winter	1,709	0.7	4.7	9.2	1.6	2.6
Water Quality Summary by Site and Sample Year								
Site Name	Site Number and Sample Year		N	Minimum	Average	Maximum	Std. Dev.	Variance
Rio Grande at Bernalillo, NM	Site 1, Year 1		2,270	0.4	14.0	26.6	8.4	70.6
Rio Grande at Alameda, NM	Site 2, Year 1		2,417	0.7	15.6	29.4	6.5	42.4
Rio Grande at Los Padillas, NM	Site 3, Year 1		3,492	1.1	13.3	24.2	5.5	30.1
Rio Grande at Los Lunas, NM	Site 4, Year 1		2,016	3.9	14.4	38.4	7.9	61.7
Rio Grande at La Joya, NM	Site 5, Year 1		2,060	4.0	14.8	32.2	7.2	51.8
Rio Grande near San Antonio, NM	Site 6, Year 1		1,908	1.8	11.7	37.0	8.5	71.5
Rio Grande at Bernalillo, NM	Site 1, Year 2		3,159	-0.2	11.0	24.7	6.8	46.5
Rio Grande at Alameda, NM	Site 2, Year 2		3,846	0.8	13.2	27.3	7.1	51.1
Rio Grande at Los Padillas, NM	Site 3, Year 2		3,110	0.1	11.7	27.2	5.6	31.9

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Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Minimum	Average	Maximum	Std. Dev.	Variance
Rio Grande at Los Lunas, NM		Site 4, Year 2	1,398	3.3	12.2	27.4	6.9	47.2
Rio Grande at La Joya, NM		Site 5, Year 2	2,313	2.2	11.6	26.4	6.3	40.1
Rio Grande near San Antonio, NM		Site 6, Year 2	2,115	0.7	11.5	27.0	7.2	52.3
Rio Grande at Bernalillo, NM		Site 1, all data	5,429	-0.2	12.3	26.6	7.7	58.8
Rio Grande at Alameda, NM		Site 2, all data	6,263	0.7	14.1	29.4	7.0	49.1
Rio Grande at Los Padillas, NM		Site 3, all data	6,602	0.1	12.5	27.2	5.6	31.5
Rio Grande at Los Lunas, NM		Site 4, all data	3,414	3.3	13.5	38.4	7.5	56.9
Rio Grande at La Joya, NM		Site 5, all data	4,373	2.2	13.1	32.2	6.9	48.1
Rio Grande near San Antonio, NM		Site 6, all data	4,023	0.7	11.6	37.0	7.8	61.4
All Rio Grande Site Data		all site data	30,104	-0.2	12.9	38.4	7.1	50.0

Table 7. Summary statistics for specific conductivity measurements by sample year, date of deployment, season, and site listed from upstream to downstream. [Specific conductance in microsiemens per centimeter at 25°C; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variatiance. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. did not measure conductance; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. Specific conductivity values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Water Quality Summary by Site and Date in Sampling Year 1								
Rio Grande at Bernalillo, NM	Nike	7/21/2006	0					
Rio Grande at Alameda, NM	Athena	7/21/2006	0					
Rio Grande at Los Lunas, NM	Nike	7/17/2006	0					
Rio Grande at La Joya, NM	Athena	7/17/2006	0					
Rio Grande near San Antonio, NM	Apollo	7/17/2006	0					
Rio Grande at Bernalillo, NM	Athena	10/6/2006	0					
Rio Grande at Bernalillo, NM	Hermes	10/6/2006	182	292	296.7	303	2.7	7
Rio Grande at Alameda, NM	Nike	10/6/2006	0					
Rio Grande at Alameda, NM	Phoebe	10/6/2006	403	50	347.2	1027	196.1	38454
Rio Grande at Los Padillas, NM	Apollo	10/6/2006	0					
Rio Grande at Los Padillas, NM	Homer	10/6/2006	451	183	447.1	974	148.7	22106
Rio Grande at Los Padillas, NM	Apollo	10/13/2006	0					
Rio Grande at Los Padillas, NM	Homer	10/13/2006	583	114	337.8	376	34.4	1183
Rio Grande at Los Lunas, NM	Nike	10/13/2006	0					
Rio Grande at Los Lunas, NM	Phoebe	10/13/2006	474	151	229.1	361	52.4	2741
Rio Grande at La Joya, NM	Athena	10/13/2006	0					
Rio Grande at La Joya, NM	Hermes	10/13/2006	210	119	243.6	429	54.8	3007
Rio Grande at Bernalillo, NM	Homer	1/22/2007	365	189	274.1	354	27.6	760
Rio Grande at Bernalillo, NM	Athena	2/2/2007	0					

Table 7. Summary statistics for specific conductivity measurements by sample year, date of deployment, season, and site listed from upstream to downstream. [Specific conductance in microsiemens per centimeter at 25°C; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variatiance. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. did not measure conductance; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. Specific conductivity values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Alameda, NM	Hermes	1/22/2007	239	119	215.0	303	54.6	2985
Rio Grande at Los Padillas, NM	Athena	1/22/2007	0					
Rio Grande at Los Padillas, NM	Phoebe	1/22/2007	370	83	200.7	353	88.8	7878
Rio Grande at Los Lunas, NM	Homer	1/26/2007	540	106	337.8	377	26.9	722
Rio Grande at La Joya, NM	Hermes	1/26/2007	594	118	212.7	437	113.3	12838
Rio Grande near San Antonio, NM	Athena	1/26/2007	0					
Rio Grande near San Antonio, NM	Phoebe	1/26/2007	338	51	331.1	460	117.5	13805
Rio Grande at Bernalillo, NM	Phoebe	4/20/2007	28	204	213.6	232	7.0	49
Rio Grande at Alameda, NM	Nike	4/20/2007	0					
Rio Grande at Alameda, NM	Hermes	4/20/2007	321	109	171.1	246	22.5	507
Rio Grande at Los Padillas, NM	Apollo	4/20/2007	0					
Rio Grande at Los Padillas, NM	Homer	4/20/2007	655	272	295.2	319	12.2	150
Rio Grande at Los Lunas, NM	Athena	4/13/2007	0					
Rio Grande at Los Lunas, NM	Phoebe	4/13/2007	66	195	221.6	251	15.6	242
Rio Grande at La Joya, NM	Apollo	4/17/2007	0					
Rio Grande at La Joya, NM	Hermes	4/17/2007	272	204	330.0	378	69.8	4868
Rio Grande near San Antonio, NM	Nike	4/17/2007	0					
Rio Grande near San Antonio, NM	Homer	4/17/2007	276	197	272.0	475	69.7	4853
Water Quality Summary by Site and Date in Sampling Year 2								
Rio Grande at Bernalillo, NM	Apollo	10/26/2007	0					

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Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	Phoebe	10/26/2007	548	307	319.4	336	7.4	55
Rio Grande at Alameda, NM	Athena	10/26/2007	0					
Rio Grande at Alameda, NM	Hermes	10/26/2007	378	162	244.5	352	76.7	5885
Rio Grande at Los Padillas, NM	Nike	10/26/2007	0					
Rio Grande at Los Padillas, NM	Marge	10/26/2007	563	355	464.2	511	27.3	747
Rio Grande at Los Lunas, NM	Nike	10/22/2007	0					
Rio Grande at Los Lunas, NM	Hermes	10/22/2007	136	129	447.1	477	53.3	2845
Rio Grande at La Joya, NM	Athena	10/22/2007	0					
Rio Grande at La Joya, NM	Marge	10/22/2007	374	573	605.4	653	17.1	292
Rio Grande near San Antonio, NM	Apollo	10/22/2007	0					
Rio Grande near San Antonio, NM	Phoebe	10/22/2007	377	299	333.7	637	66.5	4426
Rio Grande at Bernalillo, NM	Nike	1/26/2008	0					
Rio Grande at Bernalillo, NM	Marge	1/26/2008	459	250	275.4	349	15.8	250
Rio Grande at Alameda, NM	Apollo	1/26/2008	0					
Rio Grande at Alameda, NM	Phoebe	1/26/2008	446	125	275.2	328	34.4	1185
Rio Grande at Los Padillas, NM	Athena	1/26/2008	0					
Rio Grande at Los Padillas, NM	Hermes	1/26/2008	388	251	322.9	352	12.9	167
Rio Grande at Los Lunas, NM	Athena	1/24/2008	0					
Rio Grande at Los Lunas, NM	Phoebe	1/24/2008	199	156	246.1	328	29.6	877
Rio Grande at La Joya, NM	Nike	1/22/2008	0					

Table 7. Summary statistics for specific conductivity measurements by sample year, date of deployment, season, and site listed from upstream to downstream. [Specific conductance in microsiemens per centimeter at 25°C; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variatiance. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. did not measure conductance; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. Specific conductivity values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at La Joya, NM	Marge	1/22/2008	357	379	406.6	427	11.6	135
Rio Grande near San Antonio, NM	Apollo	1/22/2008	0					
Rio Grande near San Antonio, NM	Hermes	1/22/2008	296	127	462.9	502	82.8	6860
Rio Grande at Bernalillo, NM	Apollo	4/11/2008	0					
Rio Grande at Bernalillo, NM	Hermes	4/11/2008	100	173	180.3	248	13.3	177
Rio Grande at Alameda, NM	Athena	4/11/2008	0					
Rio Grande at Alameda, NM	Marge	4/11/2008	462	78	248.5	257	28.3	802
Rio Grande at Los Padillas, NM	Nike	4/11/2008	0					
Rio Grande at Los Padillas, NM	Phoebe	4/11/2008	500	232	240.6	247	4.4	20
Rio Grande at Los Lunas, NM	Athena	4/7/2008	0					
Rio Grande at Los Lunas, NM	Hermes	4/7/2008	59	267	277.1	287	5.8	34
Rio Grande at La Joya, NM	Apollo	4/7/2008	0					
Rio Grande at La Joya, NM	Hermes	4/7/2008	252	110	157.1	299	77.1	5944
Rio Grande near San Antonio, NM	Nike	4/7/2008	0					
Rio Grande at Bernalillo, NM	Phoebe	7/11/2008	100	266	272.8	276	2.1	4
Rio Grande at Alameda, NM	Athena	7/11/2008	0					
Rio Grande at Alameda, NM	Hermes	7/11/2008	549	178	226.3	278	23.4	549
Rio Grande at Los Padillas, NM	Marge	7/11/2008	146	91	275.6	393	83.3	6943
Rio Grande at Los Lunas, NM	Marge	7/7/2008	270	321	344.7	381	13.5	184
Rio Grande at La Joya, NM	Athena	7/7/2008	0					

Table 7. Summary statistics for specific conductivity measurements by sample year, date of deployment, season, and site listed from upstream to downstream. [Specific conductance in microsiemens per centimeter at 25°C; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variatiance. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. did not measure conductance; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. Specific conductivity values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at La Joya, NM	Phoebe	7/7/2008	104	160	179.6	358	42.6	1818
Rio Grande near San Antonio, NM	Apollo	7/7/2008	0					
Rio Grande near San Antonio, NM	Hermes	7/7/2008	26	369	379.7	389	5.4	29
Water Quality Summary by Season								
Site Name	Season of Deployment		N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	Spring		128	173	187.6	248	18.5	341
Rio Grande at Alameda, NM	Spring		783	78	216.8	257	46.2	2133
Rio Grande at Los Padillas, NM	Spring		1155	232	271.6	319	28.7	825
Rio Grande at Los Lunas, NM	Spring		125	195	247.8	287	30.3	917
Rio Grande at La Joya, NM	Spring		524	110	246.8	378	113.4	12849
Rio Grande near San Antonio, NM	Spring		276	197	272.0	475	69.7	4853
Rio Grande at Bernalillo, NM	Summer		100	266	272.8	276	2.1	4
Rio Grande at Alameda, NM	Summer		549	178	226.3	278	23.4	549
Rio Grande at Los Padillas, NM	Summer		146	91	275.6	393	83.3	6943
Rio Grande at Los Lunas, NM	Summer		270	321	344.7	381	13.5	184
Rio Grande at La Joya, NM	Summer		104	160	179.6	358	42.6	1818
Rio Grande near San Antonio, NM	Summer		26	369	379.7	389	5.4	29
Rio Grande at Bernalillo, NM	Fall		730	292	313.8	336	11.8	140
Rio Grande at Alameda, NM	Fall		781	50	297.5	1027	159.1	25303
Rio Grande at Los Padillas, NM	Fall		1597	114	413.3	974	101.2	10248

Table 7. Summary statistics for specific conductivity measurements by sample year, date of deployment, season, and site listed from upstream to downstream. [Specific conductance in microsiemens per centimeter at 25°C; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variatiance. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. did not measure conductance; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. Specific conductivity values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Los Lunas, NM		Fall	610	129	277.7	477	104.9	11007
Rio Grande at La Joya, NM		Fall	584	119	475.3	653	177.4	31458
Rio Grande near San Antonio, NM		Fall	377	299	333.7	637	66.5	4426
Rio Grande at Bernalillo, NM		Winter	824	189	274.8	354	21.8	476
Rio Grande at Alameda, NM		Winter	685	119	254.2	328	51.3	2632
Rio Grande at Los Padillas, NM		Winter	758	83	263.3	353	87.5	7662
Rio Grande at Los Lunas, NM		Winter	739	106	313.1	377	49.2	2417
Rio Grande at La Joya, NM		Winter	951	118	285.5	437	130.0	16892
Rio Grande near San Antonio, NM		Winter	634	51	392.6	502	122.0	14880
Water Quality Summary by Site								
Site Name	(upstream to downstream)		N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	1		1782	173	284.4	354	37.1	1379
Rio Grande at Alameda, NM	2		2798	50	250.3	1027	97.2	9457
Rio Grande at Los Padillas, NM	3		3656	83	331.9	974	108.4	11742
Rio Grande at Los Lunas, NM	4		1744	106	300.9	477	75.6	5713
Rio Grande at La Joya, NM	5		2163	110	322.3	653	168.5	28378
Rio Grande near San Antonio, NM	6		1313	51	350.1	637	108.3	11719
All Rio Grande Sites	All		13456	50	304.9	1027	113.6	12904

Table 8. Summary statistics for pH measurements by sample year, date of deployment, season, and site listed from upstream to downstream. ["pH" is the negative base 10 logarithm of the molar activity of dissolved hydrogen ions (H+) and a measure of acidity or basicity; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and did not measure pH; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. pH values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Water Quality Summary by Sampling Year 1								
Rio Grande at Bernalillo, NM	Nike	7/21/2006	0					
Rio Grande at Alameda, NM	Athena	7/21/2006	0					
Rio Grande at Los Lunas, NM	Nike	7/17/2006	0					
Rio Grande at La Joya, NM	Athena	7/17/2006	0					
Rio Grande near San Antonio, NM	Apollo	7/17/2006	0					
Rio Grande at Bernalillo, NM	Athena	10/6/2006	0					
Rio Grande at Bernalillo, NM	Hermes	10/6/2006	182	8.3	8.5	8.7	0.1	0.01
Rio Grande at Alameda, NM	Nike	10/6/2006	0					
Rio Grande at Alameda, NM	Phoebe	10/6/2006	403	7.8	8.4	9.0	0.2	0.06
Rio Grande at Los Padillas, NM	Apollo	10/6/2006	0					
Rio Grande at Los Padillas, NM	Homer	10/6/2006	451	7.9	8.1	8.4	0.1	0.02
Rio Grande at Los Padillas, NM	Apollo	10/13/2006	0					
Rio Grande at Los Padillas, NM	Homer	10/13/2006	583	7.8	8.2	8.3	0.1	0.00
Rio Grande at Los Lunas, NM	Nike	10/13/2006	0					
Rio Grande at Los Lunas, NM	Phoebe	10/13/2006	474	7.9	8.3	8.8	0.2	0.03
Rio Grande at La Joya, NM	Athena	10/13/2006	0					
Rio Grande at La Joya, NM	Hermes	10/13/2006	210	8.1	8.2	8.3	0.0	0.00

Table 8. Summary statistics for pH measurements by sample year, date of deployment, season, and site listed from upstream to downstream. ["pH" is the negative base 10 logarithm of the molar activity of dissolved hydrogen ions (H+) and a measure of acidity or basicity; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and did not measure pH; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. pH values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	Homer	1/22/2007	365	8.1	8.5	9.0	0.3	0.07
Rio Grande at Bernalillo, NM	Athena	2/2/2007	0					
Rio Grande at Alameda, NM	Hermes	1/22/2007	239	8.2	8.4	8.7	0.2	0.03
Rio Grande at Los Padillas, NM	Athena	1/22/2007	0					
Rio Grande at Los Padillas, NM	Phoebe	1/22/2007	370	7.9	8.0	8.1	0.0	0.00
Rio Grande at Los Lunas, NM	Homer	1/26/2007	540	8.1	8.1	8.2	0.0	0.00
Rio Grande at La Joya, NM	Hermes	1/26/2007	594	8.0	8.2	8.3	0.0	0.00
Rio Grande near San Antonio, NM	Athena	1/26/2007	0					
Rio Grande near San Antonio, NM	Phoebe	1/26/2007	399	8.2	8.3	8.3	0.0	0.00
Rio Grande at Bernalillo, NM	Phoebe	4/20/2007	28	8.0	8.2	8.5	0.2	0.03
Rio Grande at Alameda, NM	Nike	4/20/2007	0					
Rio Grande at Alameda, NM	Hermes	4/20/2007	321	8.2	8.4	8.8	0.2	0.03
Rio Grande at Los Padillas, NM	Apollo	4/20/2007	0					
Rio Grande at Los Padillas, NM	Homer	4/20/2007	655	7.9	8.0	8.1	0.1	0.00
Rio Grande at Los Lunas, NM	Athena	4/13/2007	0					
Rio Grande at Los Lunas, NM	Phoebe	4/13/2007	66	7.8	7.8	7.9	0.0	0.00
Rio Grande at La Joya, NM	Apollo	4/17/2007	0					
Rio Grande at La Joya, NM	Hermes	4/17/2007	272	8.1	8.2	8.2	0.0	0.00

Table 8. Summary statistics for pH measurements by sample year, date of deployment, season, and site listed from upstream to downstream. ["pH" is the negative base 10 logarithm of the molar activity of dissolved hydrogen ions (H+) and a measure of acidity or basicity; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and did not measure pH; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. pH values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande near San Antonio, NM	Nike	4/17/2007	0					
Rio Grande near San Antonio, NM	Homer	4/17/2007	276	8.1	8.2	8.2	0.0	0.00
Water Quality Summary by Sampling Year 2								
Rio Grande at Bernalillo, NM	Apollo	10/26/2007	-					
Rio Grande at Bernalillo, NM	Phoebe	10/26/2007	548	8.5	8.7	9.0	0.1	0.02
Rio Grande at Alameda, NM	Athena	10/26/2007	-					
Rio Grande at Alameda, NM	Hermes	10/26/2007	378	7.9	8.5	8.8	0.2	0.02
Rio Grande at Los Padillas, NM	Nike	10/26/2007	-					
Rio Grande at Los Padillas, NM	Marge	10/26/2007	563	7.8	8.1	8.5	0.1	0.02
Rio Grande at Los Lunas, NM	Nike	10/22/2007	-					
Rio Grande at Los Lunas, NM	Hermes	10/22/2007	136	8.5	8.6	8.8	0.1	0.01
Rio Grande at La Joya, NM	Athena	10/22/2007	-					
Rio Grande at La Joya, NM	Marge	10/22/2007	374	8.4	8.5	8.6	0.0	0.00
Rio Grande near San Antonio, NM	Apollo	10/22/2007	-					
Rio Grande near San Antonio, NM	Phoebe	10/22/2007	377	8.4	8.5	8.6	0.0	0.00
Rio Grande at Bernalillo, NM	Nike	1/26/2008	-					
Rio Grande at Bernalillo, NM	Marge	1/26/2008	459	8.3	8.8	9.2	0.3	0.07
Rio Grande at Alameda, NM	Apollo	1/26/2008	-					

Table 8. Summary statistics for pH measurements by sample year, date of deployment, season, and site listed from upstream to downstream. ["pH" is the negative base 10 logarithm of the molar activity of dissolved hydrogen ions (H+) and a measure of acidity or basicity; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and did not measure pH; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. pH values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Alameda, NM	Phoebe	1/26/2008	446	8.4	8.6	8.8	0.1	0.01
Rio Grande at Los Padillas, NM	Athena	1/26/2008	-					
Rio Grande at Los Padillas, NM	Hermes	1/26/2008	388	8.2	8.2	8.3	0.0	0.00
Rio Grande at Los Lunas, NM	Athena	1/24/2008	-					
Rio Grande at Los Lunas, NM	Phoebe	1/24/2008	199	8.2	8.2	8.3	0.0	0.00
Rio Grande at La Joya, NM	Nike	1/22/2008	-					
Rio Grande at La Joya, NM	Marge	1/22/2008	357	8.3	8.4	8.5	0.0	0.00
Rio Grande near San Antonio, NM	Apollo	1/22/2008	-					
Rio Grande near San Antonio, NM	Hermes	1/22/2008	296	8.2	8.5	8.6	0.0	0.00
Rio Grande at Bernalillo, NM	Apollo	4/11/2008	-					
Rio Grande at Bernalillo, NM	Hermes	4/11/2008	100	8.0	8.6	8.9	0.2	0.04
Rio Grande at Alameda, NM	Athena	4/11/2008	-					
Rio Grande at Alameda, NM	Marge	4/11/2008	462	8.2	8.3	8.5	0.1	0.00
Rio Grande at Los Padillas, NM	Nike	4/11/2008	-					
Rio Grande at Los Padillas, NM	Phoebe	4/11/2008	500	7.7	7.8	7.9	0.1	0.00
Rio Grande at Los Lunas, NM	Athena	4/7/2008	-					
Rio Grande at Los Lunas, NM	Hermes	4/7/2008	59	7.8	7.9	8.1	0.1	0.01
Rio Grande at La Joya, NM	Apollo	4/7/2008	-					

Table 8. Summary statistics for pH measurements by sample year, date of deployment, season, and site listed from upstream to downstream. ["pH" is the negative base 10 logarithm of the molar activity of dissolved hydrogen ions (H+) and a measure of acidity or basicity; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and did not measure pH; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. pH values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at La Joya, NM	Hermes	4/7/2008	252	7.6	7.7	7.7	0.0	0.00
Rio Grande near San Antonio, NM	Nike	4/7/2008	-					
Rio Grande at Bernalillo, NM	Phoebe	7/11/2008	561	7.7	7.9	8.2	0.1	0.02
Rio Grande at Alameda, NM	Athena	7/11/2008	-					
Rio Grande at Alameda, NM	Hermes	7/11/2008	549	7.3	7.9	8.1	0.1	0.01
Rio Grande at Los Padillas, NM	Marge	7/11/2008	146	7.6	7.9	8.0	0.1	0.01
Rio Grande at Los Lunas, NM	Marge	7/7/2008	270	8.0	8.1	8.3	0.0	0.00
Rio Grande at La Joya, NM	Athena	7/7/2008	-					
Rio Grande at La Joya, NM	Phoebe	7/7/2008	104	7.8	7.8	7.9	0.0	0.00
Rio Grande near San Antonio, NM	Apollo	7/7/2008	-					
Rio Grande near San Antonio, NM	Hermes	7/7/2008	26	8.0	8.1	8.2	0.0	0.00
Water Quality Summary by Season								
Site Name	Season of Deployment		N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	Spring		128	8.0	8.5	8.9	0.3	0.07
Rio Grande at Alameda, NM	Spring		783	8.2	8.3	8.8	0.1	0.02
Rio Grande at Los Padillas, NM	Spring		1,155	7.7	7.9	8.1	0.1	0.02
Rio Grande at Los Lunas, NM	Spring		125	7.8	7.9	8.1	0.1	0.01
Rio Grande at La Joya, NM	Spring		524	7.6	7.9	8.2	0.3	0.06

Table 8. Summary statistics for pH measurements by sample year, date of deployment, season, and site listed from upstream to downstream. ["pH" is the negative base 10 logarithm of the molar activity of dissolved hydrogen ions (H+) and a measure of acidity or basicity; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and did not measure pH; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. pH values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande near San Antonio, NM		Spring	276	8.1	8.2	8.2	0.0	0.00
Rio Grande at Bernalillo, NM		Summer	561	7.7	7.9	8.2	0.1	0.02
Rio Grande at Alameda, NM		Summer	549	7.3	7.9	8.1	0.1	0.01
Rio Grande at Los Padillas, NM		Summer	146	7.6	7.9	8.0	0.1	0.01
Rio Grande at Los Lunas, NM		Summer	270	8.0	8.1	8.3	0.0	0.00
Rio Grande at La Joya, NM		Summer	104	7.8	7.8	7.9	0.0	0.00
Rio Grande near San Antonio, NM		Summer	26	8.0	8.1	8.2	0.0	0.00
Rio Grande at Bernalillo, NM		Fall	730	8.3	8.6	9.0	0.1	0.02
Rio Grande at Alameda, NM		Fall	781	7.8	8.5	9.0	0.2	0.04
Rio Grande at Los Padillas, NM		Fall	1,597	7.8	8.1	8.5	0.1	0.01
Rio Grande at Los Lunas, NM		Fall	610	7.9	8.4	8.8	0.2	0.04
Rio Grande at La Joya, NM		Fall	584	8.1	8.4	8.6	0.2	0.02
Rio Grande near San Antonio, NM		Fall	377	8.4	8.5	8.6	0.0	0.00
Rio Grande at Bernalillo, NM		Winter	824	8.1	8.6	9.2	0.3	0.10
Rio Grande at Alameda, NM		Winter	685	8.2	8.5	8.8	0.2	0.03
Rio Grande at Los Padillas, NM		Winter	758	7.9	8.1	8.3	0.1	0.02
Rio Grande at Los Lunas, NM		Winter	739	8.1	8.2	8.3	0.0	0.00
Rio Grande at La Joya, NM		Winter	951	8.0	8.3	8.5	0.1	0.02

Table 8. Summary statistics for pH measurements by sample year, date of deployment, season, and site listed from upstream to downstream. ["pH" is the negative base 10 logarithm of the molar activity of dissolved hydrogen ions (H+) and a measure of acidity or basicity; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and did not measure pH; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. pH values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande near San Antonio, NM		Winter	695	8.2	8.4	8.6	0.1	0.01
Water Quality Summary by Site								
Site Name	(upstream to downstream)		N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	1		2,243	7.7	8.5	9.2	0.4	0.14
Rio Grande at Alameda, NM	2		2,798	7.3	8.3	9.0	0.3	0.07
Rio Grande at Los Padillas, NM	3		3,656	7.6	8.0	8.5	0.2	0.02
Rio Grande at Los Lunas, NM	4		1,744	7.8	8.2	8.8	0.2	0.03
Rio Grande at La Joya, NM	5		2,163	7.6	8.2	8.6	0.3	0.07
Rio Grande near San Antonio, NM	6		1,374	8.0	8.4	8.6	0.1	0.02
All Rio Grande Sites	All		13,978	7.3	8.2	9.2	0.29	0.08

Table 9. Summary statistics for oxygen dissolved in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Dissolved oxygen in mg/L; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Dissolved oxygen values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)]

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Water Quality Summary by Sampling Year 1								
Rio Grande at Bernalillo, NM	Nike	7/21/2006	663	3.4	5.7	7.8	1.3	1.8
Rio Grande at Alameda, NM	Athena	7/21/2006	509	3.4	5.8	6.9	0.9	0.8
Rio Grande at Los Lunas, NM	Nike	7/17/2006	365	5.8	7.0	7.9	0.5	0.3
Rio Grande at La Joya, NM	Athena	7/17/2006	374	6.0	6.5	7.3	0.4	0.2
Rio Grande near San Antonio, NM	Apollo	7/17/2006	301	2.9	5.0	6.9	1.0	0.9
Rio Grande at Bernalillo, NM	Athena	10/6/2006	654	7.3	7.9	8.7	0.2	0.1
Rio Grande at Bernalillo, NM	Hermes	10/6/2006	182	7.3	7.5	7.8	0.1	0.0
Rio Grande at Alameda, NM	Nike	10/6/2006	279	4.4	7.7	8.4	0.7	0.5
Rio Grande at Alameda, NM	Phoebe	10/6/2006	403	3.7	5.8	6.5	0.4	0.2
Rio Grande at Los Padillas, NM	Apollo	10/6/2006	389	4.2	6.5	7.8	1.3	1.7
Rio Grande at Los Padillas, NM	Homer	10/6/2006	451	4.8	6.6	7.1	0.3	0.1
Rio Grande at Los Padillas, NM	Apollo	10/13/2006	379	4.3	7.7	8.6	0.9	0.7
Rio Grande at Los Padillas, NM	Homer	10/13/2006	583	4.6	6.8	8.3	0.6	0.3
Rio Grande at Los Lunas, NM	Nike	10/13/2006	481	4.1	6.2	8.2	0.6	0.4
Rio Grande at Los Lunas, NM	Phoebe	10/13/2006	474	4.0	6.5	8.6	0.6	0.4
Rio Grande at La Joya, NM	Athena	10/13/2006	335	4.2	7.3	8.9	1.1	1.1
Rio Grande at La Joya, NM	Hermes	10/13/2006	210	4.2	7.2	8.0	0.7	0.5
Rio Grande at Bernalillo, NM	Homer	1/22/2007	365	10.6	11.0	11.4	0.2	0.0
Rio Grande at Bernalillo, NM	Athena	2/2/2007	378	10.7	11.2	11.5	0.2	0.0
Rio Grande at Alameda, NM	Hermes	1/22/2007	239	7.2	10.1	11.2	0.9	0.9

Table 9. Summary statistics for oxygen dissolved in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Dissolved oxygen in mg/L; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Dissolved oxygen values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)]

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Los Padillas, NM	Athena	1/22/2007	385	10.0	10.5	11.2	0.3	0.1
Rio Grande at Los Padillas, NM	Phoebe	1/22/2007	370	10.6	11.3	12.3	0.4	0.2
Rio Grande at Los Lunas, NM	Homer	1/26/2007	540	6.1	9.3	10.3	0.6	0.3
Rio Grande at La Joya, NM	Hermes	1/26/2007	594	5.2	8.8	10.1	1.3	1.7
Rio Grande near San Antonio, NM	Athena	1/26/2007	643	9.6	10.4	11.1	0.3	0.1
Rio Grande near San Antonio, NM	Phoebe	1/26/2007	399	5.5	10.2	11.2	1.0	0.9
Rio Grande at Bernalillo, NM	Phoebe	4/20/2007	28	4.3	6.4	8.4	1.5	2.4
Rio Grande at Alameda, NM	Nike	4/20/2007	654	4.4	7.7	9.3	1.5	2.1
Rio Grande at Alameda, NM	Hermes	4/20/2007	321	4.4	7.9	8.8	0.9	0.8
Rio Grande at Los Padillas, NM	Apollo	4/20/2007	280	3.9	6.3	8.7	1.5	2.2
Rio Grande at Los Padillas, NM	Homer	4/20/2007	655	4.9	6.4	7.4	0.5	0.3
Rio Grande at Los Lunas, NM	Athena	4/13/2007	90	4.9	7.5	8.8	1.1	1.2
Rio Grande at Los Lunas, NM	Phoebe	4/13/2007	66	4.9	8.1	8.7	0.5	0.3
Rio Grande at La Joya, NM	Apollo	4/17/2007	275	7.4	8.0	8.4	0.3	0.1
Rio Grande at La Joya, NM	Hermes	4/17/2007	272	6.4	7.2	8.0	0.4	0.1
Rio Grande near San Antonio, NM	Nike	4/17/2007	289	7.0	7.8	9.1	0.5	0.2
Rio Grande near San Antonio, NM	Homer	4/17/2007	276	4.7	7.5	8.2	0.5	0.3
Water Quality Summary by Sampling Year 2								
Rio Grande at Bernalillo, NM	Apollo	10/26/2007	548	8.8	9.2	9.8	0.3	0.1
Rio Grande at Bernalillo, NM	Phoebe	10/26/2007	548	7.5	8.0	8.6	0.2	0.1
Rio Grande at Alameda, NM	Athena	10/26/2007	548	4.6	6.4	9.6	1.3	1.7

Table 9. Summary statistics for oxygen dissolved in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Dissolved oxygen in mg/L; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Dissolved oxygen values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)]

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Alameda, NM	Hermes	10/26/2007	378	4.2	6.9	7.9	0.8	0.6
Rio Grande at Los Padillas, NM	Nike	10/26/2007	563	4.2	7.7	9.3	1.0	0.9
Rio Grande at Los Padillas, NM	Marge	10/26/2007	563	6.1	7.2	8.2	0.4	0.2
Rio Grande at Los Lunas, NM	Nike	10/22/2007	371	6.7	9.1	10.8	1.1	1.1
Rio Grande at Los Lunas, NM	Hermes	10/22/2007	136	4.9	7.5	9.5	1.0	1.1
Rio Grande at La Joya, NM	Athena	10/22/2007	374	7.7	8.7	9.7	0.5	0.2
Rio Grande at La Joya, NM	Marge	10/22/2007	374	7.1	8.2	9.3	0.5	0.3
Rio Grande near San Antonio, NM	Apollo	10/22/2007	377	4.9	8.4	10.7	1.6	2.6
Rio Grande near San Antonio, NM	Phoebe	10/22/2007	377	6.9	8.7	10.6	0.9	0.7
Rio Grande at Bernalillo, NM	Nike	1/26/2008	459	10.3	11.6	13.3	0.7	0.5
Rio Grande at Bernalillo, NM	Marge	1/26/2008	459	9.4	10.5	11.8	0.6	0.4
Rio Grande at Alameda, NM	Apollo	1/26/2008	460	9.8	11.1	11.6	0.4	0.1
Rio Grande at Alameda, NM	Phoebe	1/26/2008	446	6.0	10.1	11.3	1.3	1.7
Rio Grande at Los Padillas, NM	Athena	1/26/2008	459	9.7	10.8	12.0	0.5	0.3
Rio Grande at Los Padillas, NM	Hermes	1/26/2008	388	5.4	8.0	9.6	1.0	1.0
Rio Grande at Los Lunas, NM	Athena	1/24/2008	199	9.2	10.1	10.5	0.3	0.1
Rio Grande at Los Lunas, NM	Phoebe	1/24/2008	199	9.9	10.3	10.9	0.2	0.1
Rio Grande at La Joya, NM	Nike	1/22/2008	357	9.6	10.2	10.5	0.2	0.0
Rio Grande at La Joya, NM	Marge	1/22/2008	357	9.0	9.5	10.0	0.2	0.0
Rio Grande near San Antonio, NM	Apollo	1/22/2008	371	10.5	11.1	11.9	0.3	0.1
Rio Grande near San Antonio, NM	Hermes	1/22/2008	296	5.8	10.3	11.4	0.8	0.6

Table 9. Summary statistics for oxygen dissolved in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Dissolved oxygen in mg/L; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Dissolved oxygen values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)]

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	Apollo	4/11/2008	484	8.7	9.2	9.9	0.2	0.1
Rio Grande at Bernalillo, NM	Hermes	4/11/2008	100	4.6	6.1	8.3	1.1	1.3
Rio Grande at Alameda, NM	Athena	4/11/2008	480	8.2	9.5	10.8	0.6	0.4
Rio Grande at Alameda, NM	Marge	4/11/2008	462	4.8	7.6	8.6	0.6	0.3
Rio Grande at Los Padillas, NM	Nike	4/11/2008	491	8.1	8.8	9.4	0.3	0.1
Rio Grande at Los Padillas, NM	Phoebe	4/11/2008	500	6.3	8.3	9.6	1.0	0.9
Rio Grande at Los Lunas, NM	Athena	4/7/2008	164	4.4	6.8	9.2	1.3	1.7
Rio Grande at Los Lunas, NM	Hermes	4/7/2008	59	4.3	5.5	6.8	0.8	0.6
Rio Grande at La Joya, NM	Apollo	4/7/2008	273	4.7	8.2	8.9	0.4	0.2
Rio Grande at La Joya, NM	Hermes	4/7/2008	252	4.8	6.4	6.8	0.3	0.1
Rio Grande near San Antonio, NM	Nike	4/7/2008	287	8.0	8.4	8.9	0.2	0.0
Rio Grande at Bernalillo, NM	Phoebe	7/11/2008	561	5.6	6.4	7.2	0.4	0.1
Rio Grande at Alameda, NM	Athena	7/11/2008	523	3.4	5.1	7.4	1.2	1.6
Rio Grande at Alameda, NM	Hermes	7/11/2008	549	4.2	5.9	6.5	0.5	0.2
Rio Grande at Los Padillas, NM	Marge	7/11/2008	146	3.4	5.8	6.7	0.9	0.9
Rio Grande at Los Lunas, NM	Marge	7/7/2008	270	5.6	6.0	6.8	0.3	0.1
Rio Grande at La Joya, NM	Athena	7/7/2008	222	3.5	4.1	6.5	0.6	0.4
Rio Grande at La Joya, NM	Phoebe	7/7/2008	104	3.6	4.9	6.5	1.0	1.0
Rio Grande near San Antonio, NM	Apollo	7/7/2008	381	6.6	7.4	8.3	0.4	0.2
Rio Grande near San Antonio, NM	Hermes	7/7/2008	26	3.5	5.3	6.8	1.2	1.5
Water Quality Summary by Season								

Table 9. Summary statistics for oxygen dissolved in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Dissolved oxygen in mg/L; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Dissolved oxygen values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)]

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Site Name	Season of Deployment		N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	Spring		612	4.3	8.6	9.9	1.4	1.9
Rio Grande at Alameda, NM	Spring		1,917	4.4	8.2	10.8	1.3	1.7
Rio Grande at Los Padillas, NM	Spring		1,926	3.9	7.5	9.6	1.4	1.9
Rio Grande at Los Lunas, NM	Spring		379	4.3	7.0	9.2	1.3	1.8
Rio Grande at La Joya, NM	Spring		1,072	4.7	7.5	8.9	0.8	0.6
Rio Grande near San Antonio, NM	Spring		852	4.7	7.9	9.1	0.5	0.3
Rio Grande at Bernalillo, NM	Summer		1,224	3.4	6.0	7.8	1.1	1.2
Rio Grande at Alameda, NM	Summer		1,581	3.4	5.6	7.4	1.0	1.0
Rio Grande at Los Padillas, NM	Summer		146	3.4	5.8	6.7	0.9	0.9
Rio Grande at Los Lunas, NM	Summer		635	5.6	6.6	7.9	0.6	0.4
Rio Grande at La Joya, NM	Summer		700	3.5	5.5	7.3	1.3	1.6
Rio Grande near San Antonio, NM	Summer		708	2.9	6.3	8.3	1.4	1.9
Rio Grande at Bernalillo, NM	Fall		1,932	7.3	8.3	9.8	0.6	0.4
Rio Grande at Alameda, NM	Fall		1,608	3.7	6.6	9.6	1.1	1.2
Rio Grande at Los Padillas, NM	Fall		2,928	4.2	7.1	9.3	0.9	0.8
Rio Grande at Los Lunas, NM	Fall		1,462	4.0	7.2	10.8	1.4	2.0
Rio Grande at La Joya, NM	Fall		1,293	4.2	7.9	9.7	1.0	0.9
Rio Grande near San Antonio, NM	Fall		754	4.9	8.6	10.7	1.3	1.7
Rio Grande at Bernalillo, NM	Winter		1,661	9.4	11.1	13.3	0.7	0.4
Rio Grande at Alameda, NM	Winter		1,145	6.0	10.5	11.6	1.1	1.2

Table 9. Summary statistics for oxygen dissolved in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Dissolved oxygen in mg/L; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Dissolved oxygen values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)]

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Los Padillas, NM		Winter	1,602	5.4	10.2	12.3	1.4	2.0
Rio Grande at Los Lunas, NM		Winter	938	6.1	9.7	10.9	0.6	0.4
Rio Grande at La Joya, NM		Winter	1,308	5.2	9.4	10.5	1.1	1.1
Rio Grande near San Antonio, NM		Winter	1,709	5.5	10.5	11.9	0.7	0.5
Water Quality Summary by Site								
Site Name	(upstream to downstream)		N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	1		5,429	3.4	8.7	13.3	2.0	4.1
Rio Grande at Alameda, NM	2		6,251	3.4	7.5	11.6	2.0	4.2
Rio Grande at Los Padillas, NM	3		6,602	3.4	7.9	12.3	1.8	3.1
Rio Grande at Los Lunas, NM	4		3,414	4.0	7.7	10.9	1.7	2.8
Rio Grande at La Joya, NM	5		4,373	3.5	7.9	10.5	1.6	2.6
Rio Grande near San Antonio, NM	6		4,023	2.9	8.8	11.9	1.8	3.4
All Rio Grande Sites	All		30,092	2.9	8.1	13.3	1.91	3.7

Table 10. Summary statistics for oxygen saturation in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Oxygen saturation in percent; N, number of observations; Min*, minimum of the censored data; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Note: Oxygen saturations were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Water Quality Summary by Sampling Year 1								
Rio Grande at Bernalillo, NM	Nike	7/21/2006	663	50	81	115	19.4	374.6
Rio Grande at Alameda, NM	Athena	7/21/2006	509	50	85	103	13.1	171.9
Rio Grande at Los Lunas, NM	Nike	7/17/2006	365	90	108	143	13.4	178.4
Rio Grande at La Joya, NM	Athena	7/17/2006	374	88	98	116	9.0	80.2
Rio Grande near San Antonio, NM	Apollo	7/17/2006	301	50	77	120	16.8	282.6
Rio Grande at Bernalillo, NM	Athena	10/6/2006	654	85	97	104	2.9	8.5
Rio Grande at Bernalillo, NM	Hermes	10/6/2006	182	91	93	98	1.8	3.4
Rio Grande at Alameda, NM	Nike	10/6/2006	279	51	96	108	10.5	109.3
Rio Grande at Alameda, NM	Phoebe	10/6/2006	403	51	85	95	6.8	45.6
Rio Grande at Los Padillas, NM	Apollo	10/6/2006	389	50	84	104	19.0	361.4
Rio Grande at Los Padillas, NM	Homer	10/6/2006	451	54	83	94	6.2	38.8
Rio Grande at Los Padillas, NM	Apollo	10/13/2006	379	50	93	102	11.0	119.9
Rio Grande at Los Padillas, NM	Homer	10/13/2006	583	51	81	91	6.4	41.3
Rio Grande at Los Lunas, NM	Nike	10/13/2006	481	51	74	98	8.7	76.1
Rio Grande at Los Lunas, NM	Phoebe	10/13/2006	474	50	79	96	8.1	66.1
Rio Grande at La Joya, NM	Athena	10/13/2006	335	50	88	105	12.9	167.7
Rio Grande at La Joya, NM	Hermes	10/13/2006	210	50	85	94	8.5	73.0
Rio Grande at Bernalillo, NM	Homer	1/22/2007	365	91	96	101	2.0	4.0
Rio Grande at Bernalillo, NM	Athena	2/2/2007	378	95	101	107	2.9	8.3

Table 10. Summary statistics for oxygen saturation in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Oxygen saturation in percent; N, number of observations; Min*, minimum of the censored data; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Note: Oxygen saturations were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Alameda, NM	Hermes	1/22/2007	239	64	89	101	9.1	82.7
Rio Grande at Los Padillas, NM	Athena	1/22/2007	385	94	98	105	3.1	9.7
Rio Grande at Los Padillas, NM	Phoebe	1/22/2007	370	99	103	111	3.0	8.8
Rio Grande at Los Lunas, NM	Homer	1/26/2007	540	58	89	101	5.5	30.7
Rio Grande at La Joya, NM	Hermes	1/26/2007	594	50	84	97	12.9	166.7
Rio Grande near San Antonio, NM	Athena	1/26/2007	643	96	99	106	2.2	5.0
Rio Grande near San Antonio, NM	Phoebe	1/26/2007	399	57	99	111	9.4	89.3
Rio Grande at Bernalillo, NM	Phoebe	4/20/2007	28	50	75	97	17.8	317.0
Rio Grande at Alameda, NM	Nike	4/20/2007	654	52	89	107	15.4	235.9
Rio Grande at Alameda, NM	Hermes	4/20/2007	321	50	90	100	10.1	101.1
Rio Grande at Los Padillas, NM	Apollo	4/20/2007	280	50	74	105	18.4	339.7
Rio Grande at Los Padillas, NM	Homer	4/20/2007	655	62	74	89	4.5	20.7
Rio Grande at Los Lunas, NM	Athena	4/13/2007	90	52	81	98	12.9	167.7
Rio Grande at Los Lunas, NM	Phoebe	4/13/2007	66	51	87	95	6.6	42.9
Rio Grande at La Joya, NM	Apollo	4/17/2007	275	95	98	102	2.0	4.1
Rio Grande at La Joya, NM	Hermes	4/17/2007	272	80	87	94	3.4	11.4
Rio Grande near San Antonio, NM	Nike	4/17/2007	289	88	95	106	4.5	20.2
Rio Grande near San Antonio, NM	Homer	4/17/2007	276	53	91	97	6.2	38.4

Table 10. Summary statistics for oxygen saturation in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Oxygen saturation in percent; N, number of observations; Min*, minimum of the censored data; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Note: Oxygen saturations were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Water Quality Summary by Sampling Year 2								
Rio Grande at Bernalillo, NM	Apollo	10/26/2007	548	98	104	115	5.7	32.7
Rio Grande at Bernalillo, NM	Phoebe	10/26/2007	548	82	90	101	4.5	20.5
Rio Grande at Alameda, NM	Athena	10/26/2007	548	52	73	111	16.2	263.6
Rio Grande at Alameda, NM	Hermes	10/26/2007	378	51	78	93	8.7	75.6
Rio Grande at Los Padillas, NM	Nike	10/26/2007	563	52	91	115	12.3	150.9
Rio Grande at Los Padillas, NM	Marge	10/26/2007	563	75	86	101	6.4	41.4
Rio Grande at Los Lunas, NM	Nike	10/22/2007	371	75	98	130	12.8	164.1
Rio Grande at Los Lunas, NM	Hermes	10/22/2007	136	62	79	101	9.8	95.2
Rio Grande at La Joya, NM	Athena	10/22/2007	374	86	93	106	5.5	29.9
Rio Grande at La Joya, NM	Marge	10/22/2007	374	79	87	98	4.3	18.6
Rio Grande near San Antonio, NM	Apollo	10/22/2007	377	55	87	106	14.2	200.5
Rio Grande near San Antonio, NM	Phoebe	10/22/2007	377	77	89	102	5.9	35.0
Rio Grande at Bernalillo, NM	Nike	1/26/2008	459	89	100	115	7.0	49.0
Rio Grande at Bernalillo, NM	Marge	1/26/2008	459	81	90	103	5.8	33.4
Rio Grande at Alameda, NM	Apollo	1/26/2008	460	90	100	107	3.5	12.6
Rio Grande at Alameda, NM	Phoebe	1/26/2008	446	50	91	106	12.0	143.5
Rio Grande at Los Padillas, NM	Athena	1/26/2008	459	92	97	105	3.4	11.5
Rio Grande at Los Padillas, NM	Hermes	1/26/2008	388	51	73	91	10.7	114.5
Rio Grande at Los Lunas, NM	Athena	1/24/2008	199	83	96	103	3.7	13.3

Table 10. Summary statistics for oxygen saturation in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Oxygen saturation in percent; N, number of observations; Min*, minimum of the censored data; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Note: Oxygen saturations were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Los Lunas, NM	Phoebe	1/24/2008	199	91	96	100	1.9	3.6
Rio Grande at La Joya, NM	Nike	1/22/2008	357	89	93	99	2.4	5.8
Rio Grande at La Joya, NM	Marge	1/22/2008	357	79	87	93	2.4	5.9
Rio Grande near San Antonio, NM	Apollo	1/22/2008	371	93	98	105	2.5	6.5
Rio Grande near San Antonio, NM	Hermes	1/22/2008	296	50	91	98	7.3	53.6
Rio Grande at Bernalillo, NM	Apollo	4/11/2008	484	93	99	106	3.2	10.4
Rio Grande at Bernalillo, NM	Hermes	4/11/2008	100	50	65	90	11.8	139.2
Rio Grande at Alameda, NM	Athena	4/11/2008	480	88	103	121	8.0	64.6
Rio Grande at Alameda, NM	Marge	4/11/2008	462	52	82	96	6.8	46.5
Rio Grande at Los Padillas, NM	Nike	4/11/2008	491	89	97	109	5.3	28.5
Rio Grande at Los Padillas, NM	Phoebe	4/11/2008	500	70	91	104	9.3	86.9
Rio Grande at Los Lunas, NM	Athena	4/7/2008	164	50	76	102	15.0	224.0
Rio Grande at Los Lunas, NM	Hermes	4/7/2008	59	50	62	80	10.5	110.7
Rio Grande at La Joya, NM	Apollo	4/7/2008	273	50	94	100	5.4	29.2
Rio Grande at La Joya, NM	Hermes	4/7/2008	252	51	73	78	4.3	18.8
Rio Grande near San Antonio, NM	Nike	4/7/2008	287	93	95	100	2.1	4.5
Rio Grande at Bernalillo, NM	Phoebe	7/11/2008	561	78	87	98	4.9	23.8
Rio Grande at Alameda, NM	Athena	7/11/2008	523	50	70	105	16.9	286.6
Rio Grande at Alameda, NM	Hermes	7/11/2008	549	57	82	92	6.6	44.1
Rio Grande at Los Padillas, NM	Marge	7/11/2008	146	50	81	95	12.8	163.2

Table 10. Summary statistics for oxygen saturation in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Oxygen saturation in percent; N, number of observations; Min*, minimum of the censored data; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Note: Oxygen saturations were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Los Lunas, NM	Marge	7/7/2008	270	77	84	91	3.4	11.8
Rio Grande at La Joya, NM	Athena	7/7/2008	222	50	58	92	9.3	86.1
Rio Grande at La Joya, NM	Phoebe	7/7/2008	104	50	70	94	15.5	241.4
Rio Grande near San Antonio, NM	Apollo	7/7/2008	381	88	103	118	6.3	39.2
Rio Grande near San Antonio, NM	Hermes	7/7/2008	26	52	76	96	16.5	272.6
Water Quality Summary by Season								
Site Name	Season of Deployment		N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	Spring		612	50	92	106	14.6	214.4
Rio Grande at Alameda, NM	Spring		1,917	50	91	121	13.6	185.5
Rio Grande at Los Padillas, NM	Spring		1,926	50	84	109	13.7	186.4
Rio Grande at Los Lunas, NM	Spring		379	50	77	102	14.7	216.9
Rio Grande at La Joya, NM	Spring		1,072	50	88	102	10.0	100.4
Rio Grande near San Antonio, NM	Spring		852	53	93	106	4.9	24.2
Rio Grande at Bernalillo, NM	Summer		1,224	50	84	115	14.9	223.4
Rio Grande at Alameda, NM	Summer		1,581	50	79	105	14.2	203.1
Rio Grande at Los Padillas, NM	Summer		146	50	81	95	12.8	163.2
Rio Grande at Los Lunas, NM	Summer		635	77	98	143	15.7	245.8
Rio Grande at La Joya, NM	Summer		700	50	81	116	21.2	450.5
Rio Grande near San Antonio, NM	Summer		708	50	91	120	17.9	319.1
Rio Grande at Bernalillo, NM	Fall		1,932	82	97	115	6.7	45.5

Table 10. Summary statistics for oxygen saturation in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Oxygen saturation in percent; N, number of observations; Min*, minimum of the censored data; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Note: Oxygen saturations were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Alameda, NM		Fall	1,608	51	81	111	14.4	206.3
Rio Grande at Los Padillas, NM		Fall	2,928	50	86	115	11.5	132.3
Rio Grande at Los Lunas, NM		Fall	1,462	50	82	130	13.7	188.4
Rio Grande at La Joya, NM		Fall	1,293	50	89	106	8.9	78.3
Rio Grande near San Antonio, NM		Fall	754	55	88	106	10.9	118.8
Rio Grande at Bernalillo, NM		Winter	1,661	81	97	115	6.7	45.5
Rio Grande at Alameda, NM		Winter	1,145	50	94	107	9.9	98.6
Rio Grande at Los Padillas, NM		Winter	1,602	51	93	111	12.9	167.7
Rio Grande at Los Lunas, NM		Winter	938	58	92	103	5.7	32.0
Rio Grande at La Joya, NM		Winter	1,308	50	87	99	9.5	91.2
Rio Grande near San Antonio, NM		Winter	1,709	50	98	111	6.4	41.6
Water Quality Summary by Site								
Site Name	(Site # upstream to down)		N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	1		5,429	50	93	115	11.5	132.2
Rio Grande at Alameda, NM	2		6,251	50	86	121	14.7	216.0
Rio Grande at Los Padillas, NM	3		6,602	50	87	115	13.0	169.2
Rio Grande at Los Lunas, NM	4		3,414	50	87	143	14.5	209.1
Rio Grande at La Joya, NM	5		4,373	50	87	116	12.4	153.4
Rio Grande near San Antonio, NM	6		4,023	50	94	120	10.7	114.4
All Rio Grande Sites	All		30,092	50	89	143	13.30	176.8

Table 11. Summary statistics for 24-hour ecosystem respiration by sample year, date of deployment, season, and site listed from upstream to downstream. [Ecosystem respiration in $\text{gO}_2/\text{m}^2/\text{day}$; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variance. Ecosystem Respiration statistics were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Water Quality Summary by Sampling Year 1							
Rio Grande at Bernalillo, NM	7/21/2006	8	-37	-17.9	1	12.5	156.7
Rio Grande at Alameda, NM	7/21/2006	7	-81	-32.1	-7	28.7	823.9
Rio Grande at Los Lunas, NM	7/17/2006	4	-1	-0.1	0	0.4	0.2
Rio Grande at La Joya, NM	7/17/2006	4	-13	-10.8	-9	1.6	2.5
Rio Grande near San Antonio, NM	7/17/2006	4	-21	-12.4	-4	7.4	54.3
Rio Grande at Bernalillo, NM	10/6/2006	9	-7	-4.3	-3	1.7	3.0
Rio Grande at Alameda, NM	10/6/2006	12	-60	-28.8	-1	20.3	412.9
Rio Grande at Los Padillas, NM	10/6/2006	24	-77	-24.2	-3	20.1	406.0
Rio Grande at Los Lunas, NM	10/13/2006	12	-64	-25.8	-11	18.0	323.8
Rio Grande at La Joya, NM	10/13/2006	10	-52	-23.4	-3	17.2	294.4
Rio Grande at Bernalillo, NM	1/22/2007	8	-5	-1.4	2	2.9	8.5
Rio Grande at Alameda, NM	1/22/2007	4	-47	-21.7	-6	18.2	332.6
Rio Grande at Los Padillas, NM	1/22/2007	8	-3	-0.9	2	2.1	4.4
Rio Grande at Los Lunas, NM	1/26/2007	6	-14	-8.5	-6	3.2	10.1
Rio Grande at La Joya, NM	1/26/2007	7	-37	-14.4	-6	12.2	149.4
Rio Grande near San Antonio, NM	1/26/2007	12	-61	-7.8	0	17.3	299.6
Rio Grande at Bernalillo, NM	4/20/2007	7	-72	-59.1	-43	9.6	91.7
Rio Grande at Alameda, NM	4/20/2007	14	-61	-20.8	0	21.8	477.1
Rio Grande at Los Padillas, NM	4/20/2007	14	-49	-25.6	-2	14.5	209.3
Rio Grande at Los Lunas, NM	4/13/2007	3	-47	-22.2	-9	21.1	443.8

Table 11. Summary statistics for 24-hour ecosystem respiration by sample year, date of deployment, season, and site listed from upstream to downstream. [Ecosystem respiration in $\text{gO}_2/\text{m}^2/\text{day}$; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variance. Ecosystem Respiration statistics were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at La Joya, NM	4/17/2007	5	-13	-7.4	-2	4.8	22.6
Rio Grande near San Antonio, NM	4/17/2007	6	-9	-7.7	-5	1.9	3.5
Water Quality Summary by Sampling Year 2							
Rio Grande at Bernalillo, NM	10/26/2007	12	-9	-4.0	1	4.8	22.7
Rio Grande at Alameda, NM	10/26/2007	12	-52	-30.0	-15	12.9	165.7
Rio Grande at Los Padillas, NM	10/26/2007	12	-22	-13.7	-6	5.4	28.8
Rio Grande at Los Lunas, NM	10/22/2007	8	-52	-23.0	-4	21.1	445.4
Rio Grande at La Joya, NM	10/22/2007	8	-45	-30.2	-14	10.0	99.6
Rio Grande near San Antonio, NM	10/22/2007	8	-41	-15.0	-5	11.4	129.9
Rio Grande at Bernalillo, NM	1/26/2008	10	-13	-5.7	2	6.2	38.2
Rio Grande at Alameda, NM	1/26/2008	10	-19	-4.4	1	7.6	57.9
Rio Grande at Los Padillas, NM	1/26/2008	10	-103	-27.1	-3	31.2	975.8
Rio Grande at Los Lunas, NM	1/24/2008	4	-3	-3.1	-3	0.4	0.1
Rio Grande at La Joya, NM	1/22/2008	8	-9	-7.0	-5	1.9	3.6
Rio Grande near San Antonio, NM	1/22/2008	8	-60	-12.5	-3	19.5	378.8
Rio Grande at Bernalillo, NM	4/11/2008	9	-81	-31.6	0	37.1	1374.6
Rio Grande at Alameda, NM	4/11/2008	10	-22	-10.5	-1	9.0	80.3
Rio Grande at Los Padillas, NM	4/11/2008	10	-19	-6.9	-4	4.3	18.8
Rio Grande at Los Lunas, NM	4/7/2008	8	-64	-41.9	-13	19.3	372.8
Rio Grande at La Joya, NM	4/7/2008	6	-25	-13.4	-4	8.4	70.2
Rio Grande near San Antonio, NM	4/7/2008	3	-6	-6.1	-6	0.3	0.1

Table 11. Summary statistics for 24-hour ecosystem respiration by sample year, date of deployment, season, and site listed from upstream to downstream. [Ecosystem respiration in $\text{gO}_2/\text{m}^2/\text{day}$; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variance. Ecosystem Respiration statistics were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	7/11/2008	6	-18	-14.3	-11	2.6	6.7
Rio Grande at Alameda, NM	7/11/2008	12	-37	-17.6	-6	10.0	100.4
Rio Grande at Los Padillas, NM	7/11/2008	6	-57	-42.8	-11	16.3	264.9
Rio Grande at Los Lunas, NM	7/7/2008	3	-13	-12.0	-11	1.3	1.7
Rio Grande at La Joya, NM	7/7/2008	7	-66	-40.9	-22	16.4	268.7
Rio Grande near San Antonio, NM	7/7/2008	4	-3	-1.2	1	1.8	3.3
Water Quality Summary by Season							
Site Name	Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	Spring	16	-81	-43.6	0	31.1	967.8
Rio Grande at Alameda, NM	Spring	24	-61	-16.5	0	18.1	328.2
Rio Grande at Los Padillas, NM	Spring	24	-49	-17.8	-2	14.6	214.1
Rio Grande at Los Lunas, NM	Spring	11	-64	-36.5	-9	20.8	434.5
Rio Grande at La Joya, NM	Spring	11	-25	-10.6	-2	7.3	53.9
Rio Grande near San Antonio, NM	Spring	9	-9	-7.2	-5	1.7	2.9
Rio Grande at Bernalillo, NM	Summer	14	-37	-16.3	1	9.5	90.4
Rio Grande at Alameda, NM	Summer	19	-81	-22.9	-6	19.7	387.5
Rio Grande at Los Padillas, NM	Summer	6	-57	-42.8	-11	16.3	264.9
Rio Grande at Los Lunas, NM	Summer	7	-13	-5.2	0	6.4	41.3
Rio Grande at La Joya, NM	Summer	11	-66	-30.0	-9	19.8	392.3
Rio Grande near San Antonio, NM	Summer	8	-21	-6.8	1	7.8	60.7
Rio Grande at Bernalillo, NM	Fall	21	-9	-4.1	1	3.7	13.7

Table 11. Summary statistics for 24-hour ecosystem respiration by sample year, date of deployment, season, and site listed from upstream to downstream. [Ecosystem respiration in $\text{gO}_2/\text{m}^2/\text{day}$; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variance. Ecosystem Respiration statistics were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Alameda, NM	Fall	24	-60	-29.4	-1	16.6	277.1
Rio Grande at Los Padillas, NM	Fall	36	-77	-20.7	-3	17.4	301.2
Rio Grande at Los Lunas, NM	Fall	20	-64	-24.7	-4	18.8	353.4
Rio Grande at La Joya, NM	Fall	18	-52	-26.4	-3	14.5	209.1
Rio Grande near San Antonio, NM	Fall	8	-41	-15.0	-5	11.4	129.9
Rio Grande at Bernalillo, NM	Winter	18	-13	-3.8	2	5.3	28.5
Rio Grande at Alameda, NM	Winter	14	-47	-9.4	1	13.5	182.3
Rio Grande at Los Padillas, NM	Winter	18	-103	-15.4	2	26.4	698.5
Rio Grande at Los Lunas, NM	Winter	10	-14	-6.3	-3	3.7	13.6
Rio Grande at La Joya, NM	Winter	15	-37	-10.5	-5	9.0	80.2
Rio Grande near San Antonio, NM	Winter	20	-61	-9.7	0	17.9	318.8

Table 11. Summary statistics for 24-hour ecosystem respiration by sample year, date of deployment, season, and site listed from upstream to downstream. [Ecosystem respiration in $\text{gO}_2/\text{m}^2/\text{day}$; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variance. Ecosystem Respiration statistics were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Water Quality Summary by Site							
Site Name	Site Number	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	1	69	-81	-15.7	2	22.5	504.6
Rio Grande at Alameda, NM	2	81	-81	-20.6	1	18.5	342.2
Rio Grande at Los Padillas, NM	3	84	-103	-20.3	2	19.7	389.0
Rio Grande at Los Lunas, NM	4	48	-64	-20.7	0	19.7	388.3
Rio Grande at La Joya, NM	5	55	-66	-19.6	-2	15.7	246.2
Rio Grande near San Antonio, NM	6	45	-61	-9.6	1	13.3	176.5
All Rio Grande Sites	All	382	-103	-18.2	2	19.1	363.0

Table 12. Summary statistics for gross primary productivity by sample year, date of deployment, season, and site listed from upstream to downstream. [Gross primary productivity in gO₂/m²/day; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variation. Gross primary productivity statistics were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Average	Min*	Max	Var.	Std.Dev.
Water Quality Summary by Sampling Year 1							
Rio Grande at Bernalillo, NM	7/21/2006	5	4.9	1.8	8.4	7.1	2.7
Rio Grande at Alameda, NM	7/21/2006	4	4.9	1.4	8.8	11.3	3.4
Rio Grande at Los Lunas, NM	7/17/2006	3	2.2	1.3	3.1	0.9	0.9
Rio Grande at La Joya, NM	7/17/2006	3	4.2	3.3	4.9	0.7	0.9
Rio Grande near San Antonio, NM	7/17/2006	3	3.7	2.6	4.9	1.4	1.2
Rio Grande at Bernalillo, NM	10/6/2006	7	1.7	0.9	2.0	0.2	0.4
Rio Grande at Alameda, NM	10/6/2006	5	1.5	1.0	1.8	0.1	0.3
Rio Grande at Los Padillas, NM	10/6/2006	13	2.1	1.1	3.2	0.5	0.7
Rio Grande at Los Lunas, NM	10/13/2006	9	2.6	0.8	7.7	4.9	2.2
Rio Grande at La Joya, NM	10/13/2006	5	1.1	0.3	2.1	0.6	0.7
Rio Grande at Bernalillo, NM	1/22/2007	6	5.2	3.9	6.4	1.2	1.1
Rio Grande at Alameda, NM	1/22/2007	2	9.0	8.2	9.7	1.2	1.1
Rio Grande at Los Padillas, NM	1/22/2007	6	2.0	1.7	2.2	0.0	0.2
Rio Grande at Los Lunas, NM	1/26/2007	4	1.7	1.3	2.2	0.2	0.4
Rio Grande at La Joya, NM	1/26/2007	3	1.2	1.1	1.5	0.1	0.3
Rio Grande near San Antonio, NM	1/26/2007	8	1.8	1.1	2.5	0.2	0.5
Rio Grande at Bernalillo, NM	4/20/2007	0					
Rio Grande at Alameda, NM	4/20/2007	5	1.1	0.5	2.0	0.3	0.6
Rio Grande at Los Padillas, NM	4/20/2007	6	1.7	0.9	3.6	0.9	1.0
Rio Grande at Los Lunas, NM	4/13/2007	0					

Table 12. Summary statistics for gross primary productivity by sample year, date of deployment, season, and site listed from upstream to downstream. [Gross primary productivity in gO₂/m²/day; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variation. Gross primary productivity statistics were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Average	Min*	Max	Var.	Std.Dev.
Rio Grande at La Joya, NM	4/17/2007	4	1.7	1.0	2.3	0.3	0.6
Rio Grande near San Antonio, NM	4/17/2007	4	1.9	1.7	2.2	0.0	0.2
Water Quality Summary by Sampling Year 2							
Rio Grande at Bernalillo, NM	10/26/2007	10	3.3	2.7	3.8	0.2	0.4
Rio Grande at Alameda, NM	10/26/2007	9	7.5	2.1	17.6	30.5	5.5
Rio Grande at Los Padillas, NM	10/26/2007	9	4.9	3.4	7.0	1.3	1.1
Rio Grande at Los Lunas, NM	10/22/2007	3	8.4	7.0	9.8	1.9	1.4
Rio Grande at La Joya, NM	10/22/2007	6	2.1	1.2	2.9	0.4	0.6
Rio Grande near San Antonio, NM	10/22/2007	5	3.4	2.2	4.0	0.6	0.8
Rio Grande at Bernalillo, NM	1/26/2008	8	9.1	6.2	12.9	4.1	2.0
Rio Grande at Alameda, NM	1/26/2008	7	3.4	2.1	5.1	1.5	1.2
Rio Grande at Los Padillas, NM	1/26/2008	7	2.0	1.2	3.1	0.7	0.8
Rio Grande at Los Lunas, NM	1/24/2008	2	9.5	8.0	11.0	4.6	2.1
Rio Grande at La Joya, NM	1/22/2008	6	1.8	1.2	2.2	0.2	0.4
Rio Grande near San Antonio, NM	1/22/2008	3	2.5	1.3	3.1	1.1	1.0
Rio Grande at Bernalillo, NM	4/11/2008	4	3.4	2.5	4.2	0.6	0.8
Rio Grande at Alameda, NM	4/11/2008	4	9.5	7.1	11.7	4.5	2.1
Rio Grande at Los Padillas, NM	4/11/2008	8	3.6	2.4	5.7	1.2	1.1
Rio Grande at Los Lunas, NM	4/7/2008	4	3.8	3.4	4.3	0.2	0.5
Rio Grande at La Joya, NM	4/7/2008	4	1.0	0.4	1.8	0.4	0.6
Rio Grande near San Antonio, NM	4/7/2008	2	1.6	0.9	2.2	0.9	1.0

Table 12. Summary statistics for gross primary productivity by sample year, date of deployment, season, and site listed from upstream to downstream. [Gross primary productivity in gO₂/m²/day; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variation. Gross primary productivity statistics were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Average	Min*	Max	Var.	Std.Dev.
Rio Grande at Bernalillo, NM	7/11/2008	5	4.4	2.9	5.7	1.1	1.0
Rio Grande at Alameda, NM	7/11/2008	8	4.1	1.5	6.9	4.7	2.2
Rio Grande at Los Padillas, NM	7/11/2008	0					
Rio Grande at Los Lunas, NM	7/7/2008	2	3.4	3.1	3.6	0.1	0.4
Rio Grande at La Joya, NM	7/7/2008	0					
Rio Grande near San Antonio, NM	7/7/2008	2	4.2	3.9	4.4	0.1	0.3
Water Quality Summary by Season							
Site Name	Season	N	Average	Min*	Max	Var.	Std.Dev.
Rio Grande at Bernalillo, NM	Spring	4	3.4	2.5	4.2	0.6	0.8
Rio Grande at Alameda, NM	Spring	9	4.8	0.5	11.7	21.3	4.6
Rio Grande at Los Padillas, NM	Spring	14	2.8	0.9	5.7	2.0	1.4
Rio Grande at Los Lunas, NM	Spring	4	3.8	3.4	4.3	0.2	0.5
Rio Grande at La Joya, NM	Spring	8	1.3	0.4	2.3	0.4	0.7
Rio Grande near San Antonio, NM	Spring	6	1.8	0.9	2.2	0.2	0.5
Rio Grande at Bernalillo, NM	Summer	10	4.7	1.8	8.4	3.7	1.9
Rio Grande at Alameda, NM	Summer	12	4.4	1.4	8.8	6.2	2.5
Rio Grande at Los Padillas, NM	Summer	0					
Rio Grande at Los Lunas, NM	Summer	5	2.7	1.3	3.6	0.9	0.9
Rio Grande at La Joya, NM	Summer	3	4.2	3.3	4.9	0.7	0.9
Rio Grande near San Antonio, NM	Summer	5	3.9	2.6	4.9	0.8	0.9
Rio Grande at Bernalillo, NM	Fall	17	2.6	0.9	3.8	0.8	0.9

Table 12. Summary statistics for gross primary productivity by sample year, date of deployment, season, and site listed from upstream to downstream. [Gross primary productivity in gO₂/m²/day; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variation. Gross primary productivity statistics were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Average	Min*	Max	Var.	Std.Dev.
Rio Grande at Alameda, NM	Fall	14	5.4	1.0	17.6	27.8	5.3
Rio Grande at Los Padillas, NM	Fall	22	3.2	1.1	7.0	2.9	1.7
Rio Grande at Los Lunas, NM	Fall	12	4.1	0.8	9.8	10.8	3.3
Rio Grande at La Joya, NM	Fall	11	1.6	0.3	2.9	0.7	0.8
Rio Grande near San Antonio, NM	Fall	5	3.4	2.2	4.0	0.6	0.8
Rio Grande at Bernalillo, NM	Winter	14	7.4	3.9	12.9	6.6	2.6
Rio Grande at Alameda, NM	Winter	9	4.6	2.1	9.7	7.4	2.7
Rio Grande at Los Padillas, NM	Winter	13	2.0	1.2	3.1	0.4	0.6
Rio Grande at Los Lunas, NM	Winter	6	4.3	1.3	11.0	17.2	4.1
Rio Grande at La Joya, NM	Winter	9	1.6	1.1	2.2	0.2	0.5
Rio Grande near San Antonio, NM	Winter	11	2.0	1.1	3.1	0.5	0.7

Table 12. Summary statistics for gross primary productivity by sample year, date of deployment, season, and site listed from upstream to downstream. [Gross primary productivity in gO₂/m²/day; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variation. Gross primary productivity statistics were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Average	Min*	Max	Var.	Std.Dev.
Water Quality Summary by Site							
Site Name	Site Number	N	Average	Min*	Max	Var.	Std.Dev.
Rio Grande at Bernalillo, NM	1	45	4.6	0.9	12.9	7.2	2.7
Rio Grande at Alameda, NM	2	44	4.8	0.5	17.6	15.5	3.9
Rio Grande at Los Padillas, NM	3	49	2.8	0.9	7.0	2.1	1.5
Rio Grande at Los Lunas, NM	4	27	3.8	0.8	11.0	8.4	2.9
Rio Grande at La Joya, NM	5	31	1.8	0.3	4.9	1.1	1.1
Rio Grande near San Antonio, NM	6	27	2.6	0.9	4.9	1.2	1.1
All Rio Grande Sites	All	223	3.5	0.3	17.6	7.4	2.7

Table 13. Summary statistics for the ratio of gross primary productivity to ecosystem respiration (PR Ratios) by sample year, date of deployment, season, and site listed from upstream to downstream. [Values are PR Ratios; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variance. PR Ratios were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Water Quality Summary by Sampling Year 1							
Rio Grande at Bernalillo, NM	7/21/2006	5	-0.8	0.1	2.7	1.5	2.2
Rio Grande at Alameda, NM	7/21/2006	4	-0.8	-0.3	-0.1	0.3	0.1
Rio Grande at Los Lunas, NM	7/17/2006	3	-8.3	1.9	9.9	9.3	86.9
Rio Grande at La Joya, NM	7/17/2006	3	-0.5	-0.4	-0.4	0.1	0.0
Rio Grande near San Antonio, NM	7/17/2006	3	-0.7	-0.5	-0.3	0.2	0.1
Rio Grande at Bernalillo, NM	10/6/2006	7	-0.7	-0.5	-0.1	0.2	0.1
Rio Grande at Alameda, NM	10/6/2006	5	-1.4	-0.5	0.0	0.6	0.4
Rio Grande at Los Padillas, NM	10/6/2006	13	-1.0	-0.2	-0.1	0.3	0.1
Rio Grande at Los Lunas, NM	10/13/2006	9	-0.5	-0.1	0.0	0.1	0.0
Rio Grande at La Joya, NM	10/13/2006	5	-0.5	-0.2	0.0	0.2	0.0
Rio Grande at Bernalillo, NM	1/22/2007	6	-4.7	0.3	7.3	4.2	17.6
Rio Grande at Alameda, NM	1/22/2007	2	-1.3	-1.1	-0.8	0.3	0.1
Rio Grande at Los Padillas, NM	1/22/2007	6	-0.9	0.5	3.2	1.6	2.7
Rio Grande at Los Lunas, NM	1/26/2007	4	-0.3	-0.2	-0.2	0.0	0.0
Rio Grande at La Joya, NM	1/26/2007	3	-0.3	-0.2	-0.2	0.1	0.0
Rio Grande near San Antonio, NM	1/26/2007	8	-4.9	0.0	11.7	4.9	24.4
Rio Grande at Bernalillo, NM	4/20/2007	0					
Rio Grande at Alameda, NM	4/20/2007	5	-2.5	-1.0	-0.1	1.1	1.2
Rio Grande at Los Padillas, NM	4/20/2007	6	-0.2	-0.1	-0.1	0.0	0.0

Table 13. Summary statistics for the ratio of gross primary productivity to ecosystem respiration (PR Ratios) by sample year, date of deployment, season, and site listed from upstream to downstream. [Values are PR Ratios; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variance. PR Ratios were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Los Lunas, NM	4/13/2007	0					
Rio Grande at La Joya, NM	4/17/2007	4	-0.6	-0.4	-0.2	0.2	0.0
Rio Grande near San Antonio, NM	4/17/2007	4	-0.4	-0.3	-0.2	0.1	0.0
Water Quality Summary by Sampling Year 2							
Rio Grande at Bernalillo, NM	10/26/2007	10	-0.4	4.9	20.7	7.5	56.1
Rio Grande at Alameda, NM	10/26/2007	9	-0.5	-0.3	0.0	0.1	0.0
Rio Grande at Los Padillas, NM	10/26/2007	9	-0.9	-0.5	-0.3	0.2	0.1
Rio Grande at Los Lunas, NM	10/22/2007	3	-2.0	-1.5	-1.0	0.5	0.3
Rio Grande at La Joya, NM	10/22/2007	6	-0.2	-0.1	0.0	0.1	0.0
Rio Grande near San Antonio, NM	10/22/2007	5	-0.8	-0.4	-0.2	0.2	0.0
Rio Grande at Bernalillo, NM	1/26/2008	8	-5.5	6.8	52.0	18.6	346.5
Rio Grande at Alameda, NM	1/26/2008	7	-8.3	2.7	20.9	9.2	85.3
Rio Grande at Los Padillas, NM	1/26/2008	7	-0.4	-0.2	-0.1	0.1	0.0
Rio Grande at Los Lunas, NM	1/24/2008	2	-3.4	-2.9	-2.4	0.7	0.5
Rio Grande at La Joya, NM	1/22/2008	6	-0.4	-0.3	-0.1	0.1	0.0
Rio Grande near San Antonio, NM	1/22/2008	3	-0.9	-0.7	-0.4	0.3	0.1
Rio Grande at Bernalillo, NM	4/11/2008	4	-11.0	-4.1	-0.9	4.6	21.3
Rio Grande at Alameda, NM	4/11/2008	4	-6.1	-4.9	-3.4	1.2	1.5
Rio Grande at Los Padillas, NM	4/11/2008	8	-0.9	-0.7	-0.3	0.2	0.0
Rio Grande at Los Lunas, NM	4/7/2008	4	-0.1	-0.1	-0.1	0.0	0.0
Rio Grande at La Joya, NM	4/7/2008	4	-0.4	-0.2	0.0	0.2	0.0

Table 13. Summary statistics for the ratio of gross primary productivity to ecosystem respiration (PR Ratios) by sample year, date of deployment, season, and site listed from upstream to downstream. [Values are PR Ratios; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variance. PR Ratios were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande near San Antonio, NM	4/7/2008	2	-0.4	-0.3	-0.2	0.2	0.0
Rio Grande at Bernalillo, NM	7/11/2008	5	-0.4	-0.3	-0.2	0.1	0.0
Rio Grande at Alameda, NM	7/11/2008	8	-1.0	-0.4	-0.1	0.3	0.1
Rio Grande at Los Padillas, NM	7/11/2008	0					
Rio Grande at Los Lunas, NM	7/7/2008	2	-0.3	-0.3	-0.2	0.0	0.0
Rio Grande at La Joya, NM	7/7/2008	0					
Rio Grande near San Antonio, NM	7/7/2008	2	-5.5	-3.4	-1.4	2.9	8.4
Water Quality Summary by Season							
Site Name	Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	Spring	4	-11.0	-4.1	-0.9	4.6	21.3
Rio Grande at Alameda, NM	Spring	9	-6.1	-2.7	-0.1	2.3	5.4
Rio Grande at Los Padillas, NM	Spring	14	-0.9	-0.4	-0.1	0.3	0.1
Rio Grande at Los Lunas, NM	Spring	4	-0.1	-0.1	-0.1	0.0	0.0
Rio Grande at La Joya, NM	Spring	8	-0.6	-0.3	0.0	0.2	0.0
Rio Grande near San Antonio, NM	Spring	6	-0.4	-0.3	-0.2	0.1	0.0

Table 13. Summary statistics for the ratio of gross primary productivity to ecosystem respiration (PR Ratios) by sample year, date of deployment, season, and site listed from upstream to downstream. [Values are PR Ratios; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variance. PR Ratios were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	Summer	10	-0.8	-0.1	2.7	1.0	1.0
Rio Grande at Alameda, NM	Summer	12	-1.0	-0.4	-0.1	0.3	0.1
Rio Grande at Los Padillas, NM	Summer	0					
Rio Grande at Los Lunas, NM	Summer	5	-8.3	1.0	9.9	6.7	44.8
Rio Grande at La Joya, NM	Summer	3	-0.5	-0.4	-0.4	0.1	0.0
Rio Grande near San Antonio, NM	Summer	5	-5.5	-1.6	-0.3	2.2	4.7
Rio Grande at Bernalillo, NM	Fall	17	-0.7	2.7	20.7	6.3	39.1
Rio Grande at Alameda, NM	Fall	14	-1.4	-0.4	0.0	0.4	0.1
Rio Grande at Los Padillas, NM	Fall	22	-1.0	-0.3	-0.1	0.3	0.1
Rio Grande at Los Lunas, NM	Fall	12	-2.0	-0.5	0.0	0.7	0.4
Rio Grande at La Joya, NM	Fall	11	-0.5	-0.1	0.0	0.1	0.0
Rio Grande near San Antonio, NM	Fall	5	-0.8	-0.4	-0.2	0.2	0.0
Rio Grande at Bernalillo, NM	Winter	14	-5.5	4.0	52.0	14.3	204.5
Rio Grande at Alameda, NM	Winter	9	-8.3	1.9	20.9	8.2	66.8
Rio Grande at Los Padillas, NM	Winter	13	-0.9	0.1	3.2	1.1	1.3
Rio Grande at Los Lunas, NM	Winter	6	-3.4	-1.1	-0.2	1.4	2.0
Rio Grande at La Joya, NM	Winter	9	-0.4	-0.2	-0.1	0.1	0.0
Rio Grande near San Antonio, NM	Winter	11	-4.9	-0.2	11.7	4.1	17.2

Table 13. Summary statistics for the ratio of gross primary productivity to ecosystem respiration (PR Ratios) by sample year, date of deployment, season, and site listed from upstream to downstream. [Values are PR Ratios; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variance. PR Ratios were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Water Quality Summary by Site							
Site Name	Site Number	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	1	45	-11.0	1.9	52.0	9.1	82.1
Rio Grande at Alameda, NM	2	44	-8.3	-0.4	20.9	4.0	15.7
Rio Grande at Los Padillas, NM	3	49	-1.0	-0.2	3.2	0.7	0.4
Rio Grande at Los Lunas, NM	4	27	-8.3	-0.3	9.9	2.8	8.0
Rio Grande at La Joya, NM	5	31	-0.6	-0.2	0.0	0.2	0.0
Rio Grande near San Antonio, NM	6	27	-5.5	-0.5	11.7	2.8	7.6
All Rio Grande Sites	All	223	-11.0	0.1	52.0	4.7	22.0