# RIVEREYES OBSERVATIONS IN THE MIDDLE RIO GRANDE FOR THE 2012 IRRIGATION SEASON

# Prepared for

# U.S. BUREAU OF RECLAMATION

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SWCA Project No. 17402

January 2013

## **EXECUTIVE SUMMARY**

Reconnaissance of portions of the Middle Rio Grande is mandated by Reasonable and Prudent Alternative Element C of the 2003 Biological Opinion (U.S. Fish and Wildlife Service 2003). Such reconnaissance is conducted under the project commonly referred to as —RiverEyes." RiverEyes monitoring must be performed when flows are less than 300 cubic feet per second (cfs) at San Acacia Diversion Dam. RiverEyes provides current information on river flows that allow action agencies to react quickly to rapidly changing conditions on the river, facilitate coordination among the agencies to prevent unexpected drying, and prepare for Rio Grande silvery minnow (*Hybognathus amarus*) rescues.

Hydrologic conditions were monitored daily from May 7 (as flow at the U.S. Geological Survey [USGS] gage at San Acacia approached 300 cfs) through October 31, 2012, to document spatial and temporal effects of low flow regimes. Channel drying was restricted to the Isleta and San Acacia reaches over the period of monitoring. The location and extent of channel drying varied over the period of monitoring in response to the magnitude and variance of in-stream flow, including flow dynamics linked to localized and regional storm events, as well as out-of-channel diversion of water. The location and extent of channel drying also appears to vary with macrotopographic features of the river and its adjacent corridor. Notable among these features is the elevation of the streambed relative to that of adjacent segments of drain canals that parallel the river (the river is more likely to remain wetted where the elevation of the river is equal or lower than that of adjacent drain canals).

For each day that hydrologic conditions in the Rio Grande were monitored, a brief summary report was prepared documenting spatial and temporal observations of flow (measured and visual estimates) and longitudinal limits of running water conditions. These reports were distributed via e-mail to recipients of water operations conference call notes. Similarly, verbal reports of field observations were made during water operations conference calls. Records of observed and measured hydrologic conditions were kept for the duration of the observation period.

The first occurrence of channel drying in the Isleta and San Acacia reaches was observed on July 4 and June 16, 2012, respectively. Two river segments in the Isleta Reach totaling 11.29 miles and one 13.11-mile segment in the San Acacia Reach remained dry or reduced to isolated pools on the last day of monitoring (i.e., October 31, 2012).

Channel drying in the Isleta Reach was restricted to two widely separated river segments. The northernmost intermittent river segment in the Isleta Reach was 16.58 miles long, extending downstream from a point 6.26 miles upstream of Los Lunas Bridge (River Mile [RM] 167.7) to a point 1.38 miles downstream of the Peralta Wasteway (RM 151.12). The southernmost intermittent river segment in the Isleta Reach was 6.6 miles long, extending downstream from a point 1.94 miles downstream of New Mexico Highway 346 (RM 138.78) to a point 1.54 miles upstream of U.S. Highway 60 (RM 132.18). Channel drying in the San Acacia Reach was restricted to a 32.3-mile segment that extended downstream from a point 1.48 miles upstream of the Nine-mile Outfall (RM 106.2) to the confluence of the Rio Grande and the pump channel at the south boundary of the Bosque del Apache National Wildlife Refuge (RM 73.9). The maximum duration in which one or more half-mile segments of river were observed without overland running water during the 2012 irrigation season was 109 days in the Isleta Reach and 117 days in the San Acacia Reach.

Discharge measurements were performed near the USGS Bosque Farms gage location (USGS gage 08331160) when it was judged safe to wade in the stream, when flowing water was present, and within allotted time and budgetary constraints. Likewise, irrigation wasteways were surveyed to determine the amount of water being discharged to the Rio Grande when it was judged safe to wade in the wasteways, when flowing water was present, and within allotted time and budgetary constraints. Discharge measurements were also performed at other locations as requested by water operations personnel.

Appended tables present an overview of discharge at all USGS gages, as reported by the U.S. Army Corps of Engineers during morning conference calls (Appendix A). Appendix B presents a detailed account of spatial and temporal observations of hydrologic conditions, including longitudinal limits of running water conditions, along with measured and visual estimates of flow at select USGS sites and irrigation outfall locations. Appendix C presents a detailed record of Middle Rio Grande pumping operations. Records of the daily longitudinal extent of channel drying are visually represented in spreadsheets that provide a stylized representation of the Rio Grande at the half-mile scale (Appendix D). Finally, Appendix E provides project safety documentation.

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## INTRODUCTION

The variability of flow characteristics of the contemporary Middle Rio Grande<sup>1</sup>, resulting either from natural or regulated causes, imparts a patchiness of environmental types at the scale of river segments, including the extremes represented by hydrologic abundance and periodic discontinuity of flow, with a continuum of intermediate types between these extremes. Low flow conditions that often result in fish mortality have been linked to conditions of aridity, exacerbated by water diversion in the basin and episodic conditions of drought.

Real-time estimates of surface water discharge in the Middle Rio Grande are available at flow maintained by the U.S. Geological Survey (USGS: web http://waterdata.usgs.gov/nm/nwis/rt). Rough correlations about hydrologic conditions between gages are possible at coarse scales of time and space. However, only coarse-scale patterns of autocorrelation exist in the temporal record of flow across the linear series of gage stations because intervening flows are subject to infiltration, evaporation, diversion, and the potential addition of irrigation and wastewater returns. Fine-scale dynamics in hydrologic conditions cannot be accurately deduced or interpolated from measured flow in the consecutive series of USGS gages, and continuous river conditions cannot be assured even when a consecutive series of flow gages registers that overland flow exists. The absence of continuous flow may result in fish mortality, including the federal and state endangered Rio Grande silvery minnow (Hybognathus amarus; silvery minnow). On-site river monitoring is used to guide adjustments to daily water management operations to reduce mortality to the silvery minnow and other aquatic life that occupy running water habitats along the Middle Rio Grande.

The silvery minnow is currently listed as endangered by the State of New Mexico, having first been listed May 25, 1979, as an endangered endemic population of the Mississippi silvery minnow (*Hybognathus nuchalis*) (New Mexico Department of Game and Fish 1988). On July 20, 1994, the U.S. Fish and Wildlife Service (USFWS) published a final rule to list the silvery minnow as a federal endangered species with proposed critical habitat (*Federal Register* 1994). The species is also listed as endangered by Texas (Sections 65.171–65.184 of Title 31 Texas Administrative Code) and the Republic of Mexico (Secretaria de Desarrollo Social 1994).

The contemporary range of the silvery minnow in the Middle Rio Grande of New Mexico (Figure 1) extends downstream from the vicinity of Bernalillo to the headwaters of Elephant Butte Reservoir, a distance that fluctuates as the size of the pool of water in storage in Elephant Butte Reservoir changes, but approximates 150 river miles. Prevailing aridity and highly variable hydrologic conditions in the Middle Rio Grande represent significant factors that challenge efforts to develop and manage the region's water resources for consumptive uses while simultaneously maintaining local fishery resources, notably including the silvery minnow.

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<sup>&</sup>lt;sup>1</sup> For reference in this document, the -Middle Rio Grande" is defined as the Rio Grande downstream from Cochiti Dam to the headwaters of Elephant Butte Reservoir. The Middle Rio Grande below Cochiti Dam is further designated by four reaches defined by locations of mainstream irrigation diversion dams. The Cochiti Reach extends from Cochiti Dam to Angostura Diversion Dam. The reach from Angostura Diversion Dam to Isleta Diversion Dam is called the Albuquerque Reach. The Isleta Reach is bounded upstream by Isleta Diversion Dam and downstream by San Acacia Diversion Dam. Finally, the reach below San Acacia Diversion Dam to the headwaters of Elephant Butte Reservoir is the San Acacia Reach.

This project, commonly known as —RiverEyes," is mandated by Reasonable and Prudent Alternative Element C of the 2003 Biological Opinion (USFWS 2003). RiverEyes monitoring must be performed when flows are less than 300 cubic feet per second (cfs) at San Acacia Diversion Dam. RiverEyes provides current information on river flows that allow action agencies to react quickly to rapidly changing conditions on the river, facilitate coordination among the agencies to prevent unexpected drying, and prepare for silvery minnow rescues.

Appended tables present an overview of discharge at all USGS gages, as reported by the U.S. Army Corps of Engineers during morning conference calls (Appendix A). Appendix B presents a detailed account of spatial and temporal observations of hydrologic conditions, including longitudinal limits of running water conditions, measured and visual estimates of flow at select USGS sites and irrigation outfall locations. Appendix C presents a detailed record of Middle Rio Grande pumping operations. Records of the daily longitudinal extent of channel drying are visually represented in spreadsheets that provide a stylized representation of the Rio Grande at the half-mile scale (Appendix D). Finally, Appendix E provides project safety documentation.

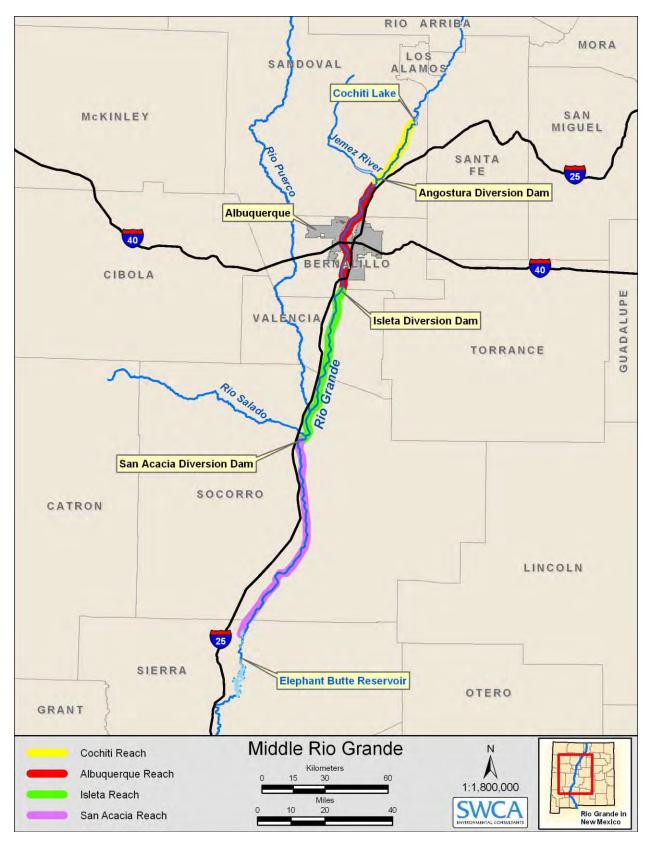


Figure 1. Overview of the Middle Rio Grande.

## **METHODS**

# Daily Reconnaissance

Hydrologic conditions were monitored daily from May 7 (as flow at the USGS gauge at San Acacia approached 300 cfs) through October 31, 2012, to document spatial and temporal effects of This river reconnaissance was performed early enough in the day so that observations could be verbally relayed to water operations staff and fish rescue crews early in the morning (usually by about 6:30 a.m. but no later than 8:30 a.m.). SWCA Environmental Consultants (SWCA) staff participated in early morning (8:30 a.m.) water operations conference calls to relay information concerning observed hydrologic conditions to concerned and affected Telephone reports were provided to designated U.S. Bureau of Reclamation stakeholders. (Reclamation) personnel and the USFWS Fish Rescue Coordinator (Jason Remshardt, or as A handheld global positioning system (GPS) unit was used to record spatial characteristics of receding and advancing edges of running water habitat. Point-specific location data were recorded using the Universal Transverse Mercator (UTM) system, North American Datum 1983, Zone 13. Point-specific location data were also recorded by fractions of river miles and were based on approximate mile-long segments superimposed on 2002 aerial photographs of the river by Pacific Western Technologies, Albuquerque, New Mexico.

# Discharge Measurements

Discharge measurements were performed as time and budget constraints permitted near the USGS Bosque Farms gage (USGS 8331160) location when it was judged safe to wade in the river and when flowing water was present. Irrigation wasteways were surveyed within allotted time and budget constraints to determine the volume of water being discharged to the Rio Grande. Occasional discharge measurements were performed at other locations as requested by water operations or fish rescue personnel. Water depth (feet) and flow velocity (feet per second) were measured using a USGS top-setting wading rod fitted with a Marsh-McBirney Flo-Mate portable flow meter. Estimation of discharge (cfs) followed protocol specified by Marsh-McBirney Inc. (1990, 1994). Late afternoon follow-up reconnaissance was performed when requested by water operations or fish rescue personnel to determine hydrologic conditions, primarily within the Isleta and San Acacia reaches. Telephone reports were provided to designated Reclamation personnel and the USFWS Fish Rescue Coordinator on an as needed basis.

# Daily Reports

A daily summary report of observations was prepared and distributed via e-mail, and field observations were reported during water operations conference calls. The daily reports included information such as:

- observed river conditions for each location visited;
- visual estimates of flow rate;
- results of quantitative flow measurements;
- observations on the rate of drying/shrinkage if the river is actively receding;
- observations on the rate of rewetting if the river is advancing after a period of drying;
- observations of disconnected lateral pools; and
- forecasts of probable river conditions over the next 24 hours.

# Data Management

A daily record of the longitudinal extent of river drying and rewetting was maintained. A relational database (Microsoft Access) and a spreadsheet database (Microsoft Excel) were developed for the storage, analysis, and retrieval of these data.

The logical construct of the relational database is helpful for envisioning the data collection and data analysis process across hierarchical scales of time and space, and in particular contributes to a unified frame of reference for investigations at the scale of river reach, user-defined river segments, and point-location data. The logical construct of the relational database also is helpful for envisioning how measured hydrologic data and RiverEyes data can be interactively employed to produce a more comprehensive understanding of river dynamics.

Daily RiverEyes data recorded at the scale of river reach include observations of river drying (yes/no, total river miles dried, extent of expansive drying, and rewetting events). Also narrative accounts of daily observations exist as database entries. Point-location observations are recorded by river mile (tenths and sometimes hundredths of a river mile) and meter (UTM coordinates, usually at a resolution less than 15 meters). Point-location data include observations of the upstream and downstream extent of river drying and observations of flow (measured and unmeasured estimates).

Data entry screens of the relational database incorporate logical data entry rules, along with queries designed to ease tasks of data validation at the time of data entry. The relational database queries provide much greater flexibility in selecting and sorting data than is possible with the limited sort and selection criteria of spreadsheet applications. The RiverEyes relational database provides numerous options for printing formatted reports, many of which have been anticipated as on-demand data outputs ranging from day-specific reports, range-of-date reports, reach-specific reports, and reports ordered chronologically by various search criteria, including reports ordered by extent of drying. The relational database also includes an automated report that searches for the maximum and minimum river miles and UTM coordinates of river drying—information crucial for recognizing expansive events of river recession (i.e., -new drying").

# Safety

A Job Hazard Analysis (JHA) was performed for this project (see Appendix E). Personnel were required to certify that they reviewed and complied with the JHA requirements each day in which work was performed on the project. Vehicle inspections were conducted at the start of each day (see Appendix E for a copy of the vehicle inspection form). All personnel that operated all-terrain vehicles received safety instruction in their operation. All safety requirements were followed.

## **RESULTS**

# Daily Reconnaissance

Records were maintained of observed and measured hydrologic conditions over the duration of the monitoring period, the details of which accompany this report in various database formats (i.e., spreadsheet and relational databases; see Appendices A–D). A brief daily summary report of observations was prepared and distributed via e-mail to recipients of water operations conference call notes, and verbal reports of field observations were made during water operations conference calls.

Channel drying was restricted to the Isleta and San Acacia reaches over the period of monitoring. The location and extent of channel drying varied within each reach over the period of monitoring in response to the magnitude and variance of in-stream flow, including flow dynamics linked to localized and regional storm events, as well as out-of-channel diversion of water. The location and extent of channel drying also appear to vary with macrotopographic features of the river and its adjacent corridor. Notable among these features is the elevation of the streambed relative to that of adjacent segments of drain canals that parallel the river (the river is more likely to remain wetted where the elevation of the river is equal or lower than that of adjacent drain canals).

The first occurrence of channel drying in the Isleta Reach was observed on July 4, 2012, whereas the first occurrence of channel drying in the San Acacia Reach was observed on June 16, 2012. On the last day of monitoring (i.e., October 31, 2012), two river segments in the Isleta Reach totaling 11.29 miles and one 13.11-mile segment in the San Acacia Reach remained dry or reduced to isolated pools.

Channel drying in the Isleta Reach was restricted to two widely separated river segments. The northernmost intermittent river segment in the Isleta Reach was 16.58 miles long, extending downstream from a point 6.26 miles upstream of Los Lunas Bridge (River Mile [RM] 167.7) to a point 1.38 miles downstream of the Peralta Wasteway (RM 151.12). The most southern intermittent river segment in the Isleta Reach was 6.6 miles long, extending downstream from a point 1.94 miles downstream of New Mexico Highway (NM) 346 (RM 138.78) to a point 1.54 miles upstream of U.S. Highway 60 (RM 132.18). Channel drying in the San Acacia Reach was restricted to a 32.3-mile segment that extended downstream from a point 1.48 miles upstream of the Nine-mile Outfall (RM 106.2) to the confluence of the Rio Grande and the pump channel at the south boundary of the Bosque del Apache National Wildlife Refuge (RM 73.9). Descriptive statistics concerning the number of days the river dried in the Isleta and San Acacia reaches of the Middle Rio Grande during the 2012 irrigation season, and the extent and variability of that drying, are presented in Table 1 and Table 2.

Inclusive of the Isleta and San Acacia reaches of the Middle Rio Grande, overland running water habitat was absent from 55.48 unique miles of river channel on one or more days during the 2012 irrigation season. The maximum total extent of river channel drying observed for a single day during the 2012 irrigation season (i.e., 53.33 miles), occurred on August 14, 2012, when a total 21.36 miles of river in the Isleta Reach and 31.97 miles of river in the San Acacia Reach was dry or reduced to isolated pools.

River reach- and month-specific median values of the length of river channel without overland running water during the 2012 irrigation season are specified in Table 1 and Table 2, and illustrated in Figure 2 and Figure 3.

Table 1. Statistics Concerning the Occurrence and Extent of River Drying in the Isleta Reach during the 2012 Irrigation Season

	Monthly Statistics for Isleta Reach										
Month (2012)	Days of Channel Drying	Mean Num. of River Miles Dry/Day	Std. Dev.	Std. Error	C.I. of Mean	Max. Num. of River Miles Dry					
April	0	0.000	0.000	0.000	0.000	0.000					
May	0	0.000	0.000	0.000	0.000	0.000					
June	0	0.000	0.000	0.000	0.000	0.000					
July	21	5.165	5.829	1.047	2.138	15.650					
August	31	16.660	4.164	0.748	1.528	21.360					
September	30	17.748	2.420	0.442	0.904	21.180					
October	31	17.315	3.065	0.551	1.124	21.690					

C.I. = confidence interval.

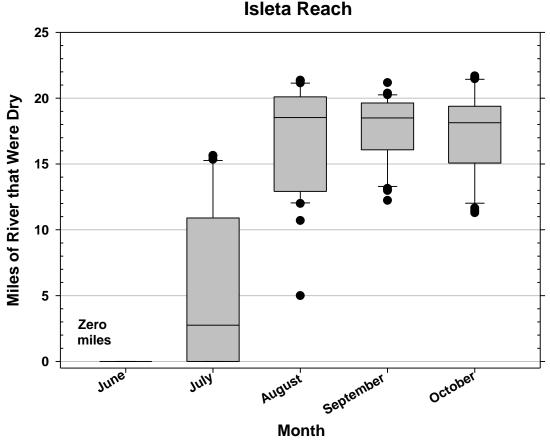
Table 2. Statistics Concerning the Occurrence and Extent of River Drying in the San Acacia Reach during the 2012 Irrigation Season

	Monthly Statistics for San Acacia Reach										
Month (2012)	Days of Channel Drying	Mean Num. of River Miles Dry/Day	Std. Dev.	Std. Error	C.I. of Mean	Max. Num. of River Miles Dry					
April	0	0.000	0.000	0.000	0.000	0.000					
May	0	0.000	0.000	0.000	0.000	0.000					
June	15	7.180	8.019	1.464	2.994	21.900					
July	21	15.543	11.532	2.071	4.230	29.000					
August	25	19.852	12.931	2.323	4.743	32.200					
September	25	20.720	10.242	1.870	3.824	30.420					
October	31	20.647	5.922	1.064	2.172	26.610					

C.I. = confidence interval.

River channel segments without running water during the 2012 irrigation season were generally much longer and more variable in the San Acacia Reach compared to the Isleta Reach (see Table 1 and Table 2). Whereas drought conditions during the 2012 irrigation season appear to have been relatively severe in the San Acacia Reach, as is evident from the greater number of river miles dried and the duration of channel drying, intermittent portions of the San Acacia Reach were also highly subject to short-term rewetting during 2012. Rewetting of intermittent portions of the Middle Rio Grande can be linked primarily to occasional significant inputs of stormwater runoff from large contributing watersheds that are confluent with the Rio Grande a short distance upstream of the San Acacia Reach, notably including the Rio Salado and Rio Puerco.

The box plots in Figure 2 indicate that the initial and most significant degree of expansive channel drying in the Isleta Reach during the 2012 irrigation season occurred in July. Channel drying in the Isleta Reach continued to advance in August, although at a reduced and less variable rate from that observed for July. The level of river channel that was dry in the Isleta Reach remained relatively stable from August to October, although flow regime dynamics over this time were punctuated by a few short-term events of channel rewetting.



The boundary of the box closest to zero indicates the 25th percentile. The line within the box marks the median, and the boundary of the box farthest from zero indicates the 75th percentile. Error bars above and below the box indicate the 90th and 10th percentiles, respectively. The circle symbols represent outlying points.

Figure 2. Occurrence and extent of river drying in the Isleta Reach of the Middle Rio Grande for June through October of the 2012 irrigation season.

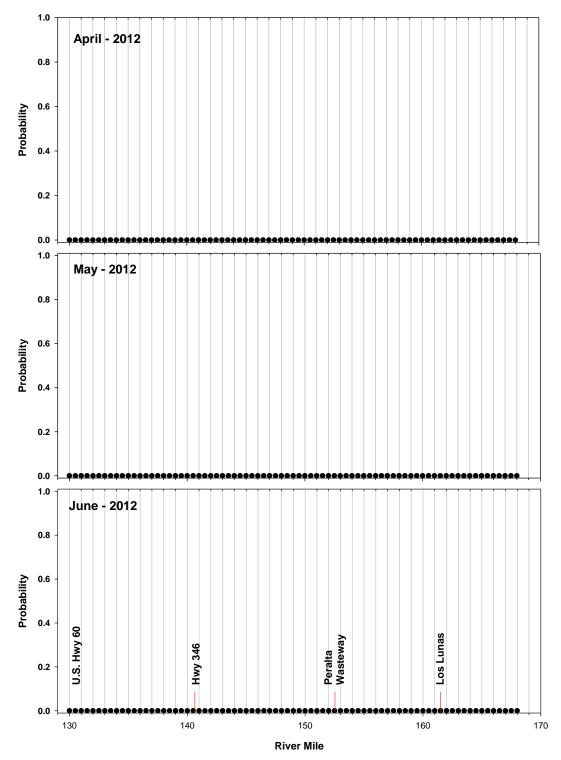
The box plots in Figure 3 indicate that the longitudinal expanse of river channel that dried in the San Acacia Reach during the 2012 irrigation season increased with time from June through August. But this recession of running water habitat was quite variable, being repeatedly reversed by significant although short-term events of river rewetting. Progressively through August, the balance of river expansion and contraction during the 2012 irrigation season resulted in a net loss of wetted habitat. Only after this time, i.e., September and October, did the extent of river drying in the San Acacia Reach stabilize or partially rewet.

# San Acacia Reach 35 30 Miles of River that Were Dry 25 20 15 10 5 0 September August October June July **Month**

The boundary of the box closest to zero indicates the 25th percentile. The line within the box marks the median, and the boundary of the box farthest from zero indicates the 75th percentile. Error bars above and below the box indicate the 90th and 10th percentiles, respectively. The circle symbols represent outlying points.

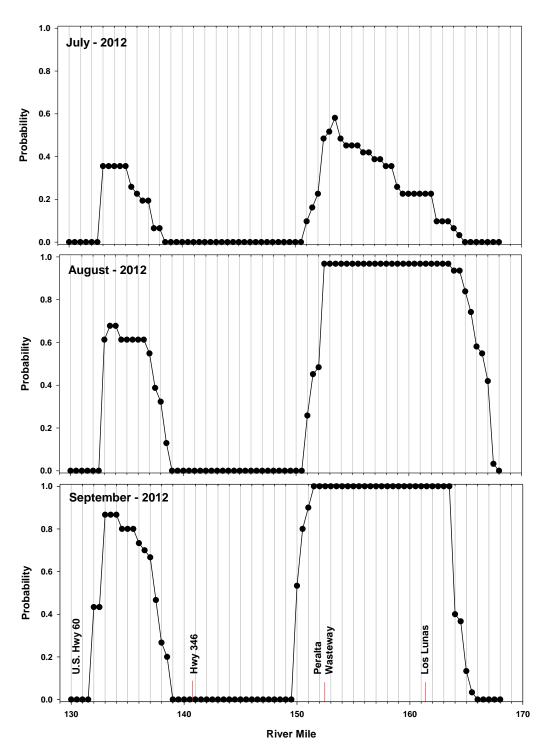
Figure 3. Occurrence and extent of river drying in the San Acacia Reach of the Middle Rio Grande for June through October of the 2012 irrigation season.

Probabilities of channel drying at a given point in the Isleta Reach (at the scale of 0.5 mile) are illustrated in Figure 4 (for April, May, and June 2012), Figure 5 (for July, August, and September 2012), and Figure 6 (for October 2012).



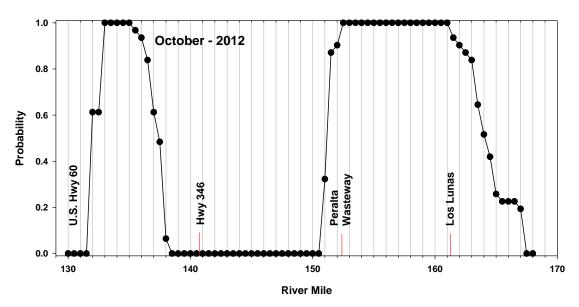
For reference, the location of select geographic features is indicated along the river mile axis.

Figure 4. Probabilities of river channel drying at a given point in the Isleta Reach (at the scale of 0.5 mile) for April, May, and June 2012.



For reference, the location of select geographic features is indicated along the river mile axis.

Figure 5. Probabilities of river channel drying at a given point in the Isleta Reach (at the scale of 0.5 mile) for July, August, and September 2012.



For reference, the location of select geographic features is indicated along the river mile axis.

Figure 6. Probabilities of river channel drying at a given point in the Isleta Reach (at the scale of 0.5 mile) for October 2012.

The probabilities of channel drying at a given point in the San Acacia Reach (at the scale of 0.5 mile) are illustrated in Figure 7, (for April, May, and June 2012), Figure 8, (for July, August, and September 2012), and Figure 9 for October 2012.

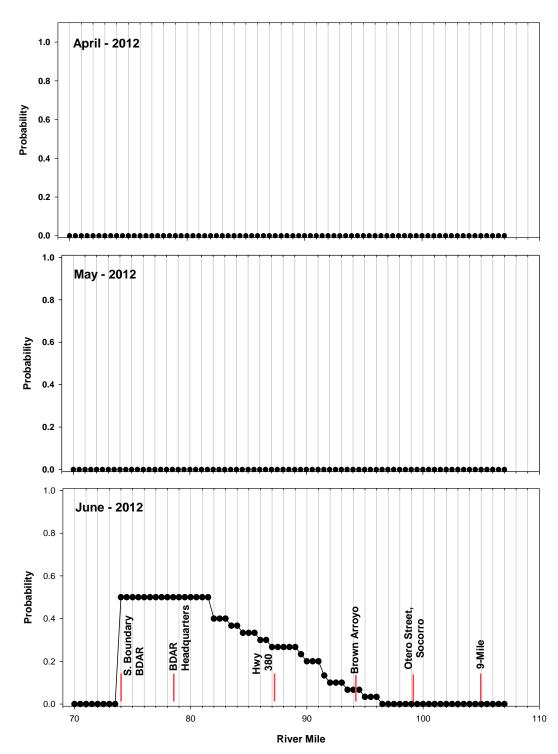


Figure 7. Probabilities of river channel drying at a given point in the San Acacia Reach (at the scale of 0.5 mile) for April, May, and June 2012.

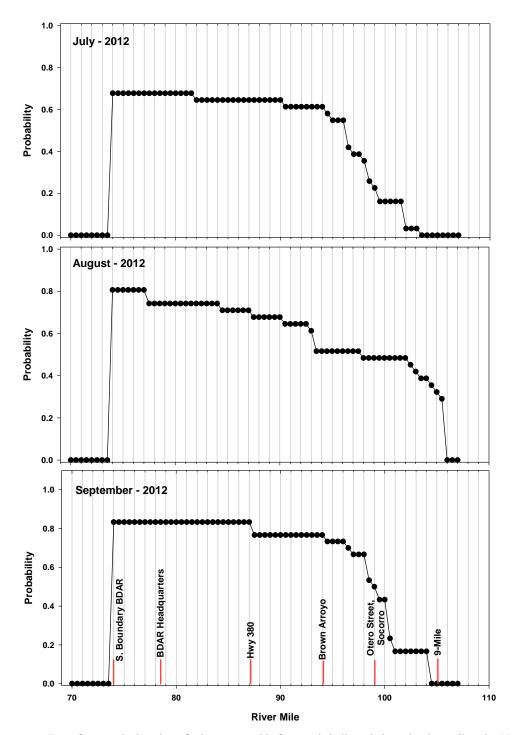


Figure 8. Probabilities of river channel drying at a given point in the San Acacia Reach (at the scale of 0.5 mile) for July, August, and September 2012.

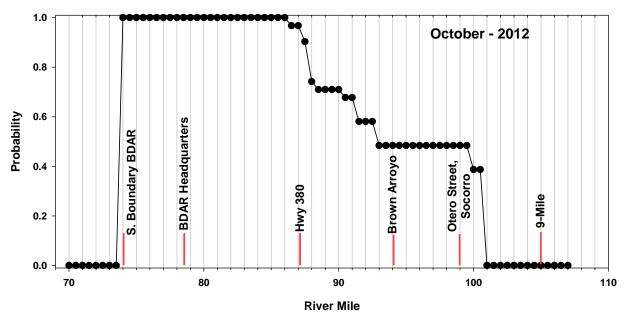
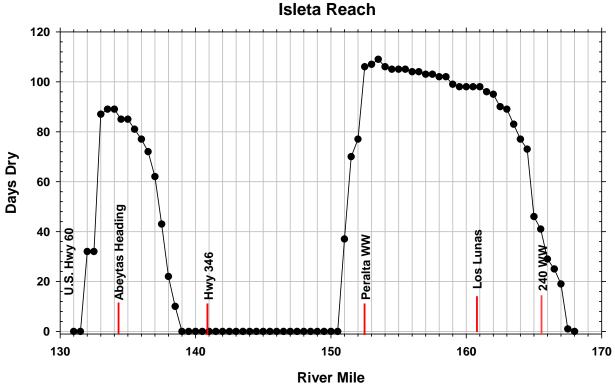


Figure 9. Probabilities of river channel drying at a given point in the San Acacia Reach (at the scale of 0.5 mile) for October 2012.

The number of days half-mile segments of river were observed without overland running water during the 2012 irrigation season is illustrated in Figure 10 (Isleta Reach) and Figure 11 (San Acacia Reach). These figures indicate that two channel segments in the Isleta Reach are relatively abruptly subject to the onset and termination of channel desiccation. In the San Acacia Reach, the duration of channel desiccation increases gradually from north to south and terminates abruptly at the south boundary of Bosque del Apache National Wildlife Refuge where water is pumped from the low flow conveyance channel to the river to abruptly terminate channel desiccation. The maximum duration in which one or more half-mile segments of river were observed without overland running water during the 2012 irrigation season is 109 days in the Isleta Reach and 117 days in the San Acacia Reach (see Figure 10 and Figure 11).



For reference, the location of select geographic features is indicated along the river mile axis. Note: —WW" is an abbreviation for —Wasteway."

Figure 10. The number of days that half-mile segments of the Isleta Reach of the Middle Rio Grande were observed without overland running water during the 2012 irrigation season.

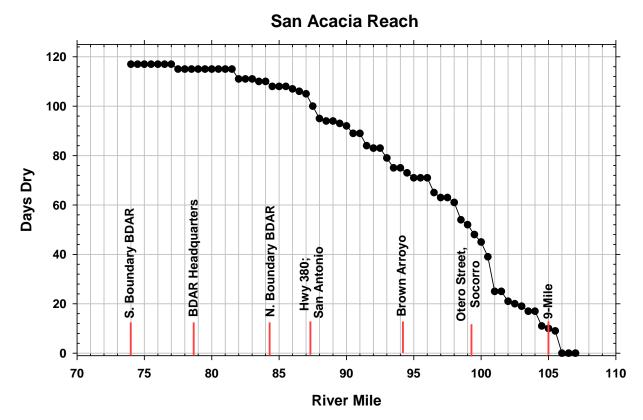


Figure 11. The number of days that half-mile segments of the San Acacia Reach of the Middle Rio Grande were observed without overland running water during the 2012 irrigation season.

#### ACKNOWLEDGMENT AND CREDITS

Pauletta Dodge was responsible for most observations of river dynamics in the Isleta Reach of the Middle Rio Grande. Gregory Pargas was responsible for observations of river dynamics in the San Acacia Reach of the Middle Rio Grande. Michael Hatch developed and maintained database systems that generated much of the content of this report. We are grateful to the Isleta Pueblo and the Middle Rio Grande Conservancy District for granting access to the Rio Grande and its adjacent riparian corridor within their respective jurisdictions.

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	RiverEyes Observat	ions for 2012	
	APPENDI	ν Λ	
Overview of M	APPENDI 12 MIDDLE RIO C		DIVED ELOWO
OVERVIEW OF 20	12 MIDDLE KIO C	JKANDE GAGED	NIVER FLOWS

# Middle Rio Grande Water Operations - 2012

Date	Del Norte	Lobatos	Embudo	Rio Grande at Embudo	La Puente (	El Vado (DS of Dam)	Abiquiu (US of	Abiquiu (DS of Res)	Chamita	Otowi	Cochiti (DS of Res)	Galisteo	Jemez Springs	Jemez Spgs. (DS of Res)	Albuq.	Bosque Farms	Hwy. 346	Rio Puerco	San Acacia	Escondida	Hwy. 380	San Marcial	E. Butte (DS of	Caballo (DS of Res)
13-Apr-2012	1622	223	248	754	1310	388	445	521	748	1530	1582	0	221	166	1230	877	346	0	1190	869	575	383	1120	1360
20-Apr-2012	875	160	100	598	771	400	404	479	596	1170	1187	0	131	65	834	548	540	2	786	582	565	474	1080	853
27-Apr-2012	2824	234	609	904	1350	507	541	602	631	1620	1115	0	167	87	748	312	241	0	691	349	305	134	1100	923
07-May-2012	2950	202	227	672	630	494	488	622	605	1280	1230	0	58	16	686	287	245	0	532	384	343	188	1120	200
11-May-2012	2374	177	144	672	554	455	449	474	419	1060	1166	0	50	23	633	263	305	0	435	390	302	101	29	0
14-May-2012	2356	223	142	604	584	455	449	558	537	1210	1174	0	48	13	693	373	385	0	465	420	284	114	30	0
18-May-2012	2608	145	90	528	456	455	442	596	562	1010	1206	0	28	6	620	180	205	0	301	406	316	123	0	0
21-May-2012	2572	148	92	523	357	584	544	725	648	1130	1122	0	24	0	563	172	168	0	174	346	271	81	43	0
23-May-2012	2932	125	93	508	328	699	683	704	631	1090	1155	0	20	0	557	222	133	0	194	304	208	56	35	200
25-May-2012	2446	160	98	494	275	944	944	1030	882	1380	1296	0	18	0	563	184	119	0	152	238	93	41	31	239
29-May-2012	1426	139	75	479	201	995	976	1040	942	1430	1480	0	17	0	713	292	198	0	167	199	86	52	29	1583
01-Jun-2012	1450	145	47	439	146	969	976	1050	942	1350	1367	0	16	0	686	337	180	0	176	196	71	38	1420	1311
04-Jun-2012	1426	133	48	420	135	902	932	1090	1010	1370	1397	0	12	0	659	277	133	0	184	205	74	41	1370	1654
06-Jun-2012	1198	112	57	431	88	918	919	1090	1020	1420	1437	0	16	0	679	327	133	0	171	197	65	35	1680	1936
08-Jun-2012	1121	97	40	383	63	969	963	1010	931	1260	1457	0	13	0	666	312	180	0	194	196	59	39	1670	1957
11-Jun-2012	938	107	26	344	44	952	957	1140	1090	1360	1477	0	11	0	633	416	183	0	186	192	60	36	1650	2156
13-Jun-2012	866	102	17	340	38	978	969	1210	1160	1430	1564	0	7	0	666	312	163	0	191	194	59	39	1690	2037
15-Jun-2012	754	82	14	340	32	829	803	1190	1220	1440	1559	0	11	0	812	307	141	0	157	183	47	34	1720	1795
18-Jun-2012	665	62	11	301	24	902	889	1260	1210	1440	1599	0	8	0	679	268	92	0	130	161	47	35	1740	1733
20-Jun-2012	605	43	10	270	19	902	889	1300	1160	1370	1418	0	7	0	679	176	84	0	113	121	13	27	1730	1815
22-Jun-2012	548	43	9	243	17	1040	1020	1260	1200	1370	1392	0	8	0	607	148	168	0	83	101	7	30	1790	1737
25-Jun-2012	468	35	8	240	18	978	950	1210	1130	1330	1313	0	5	0	633	140	248	0	68	75	2	26	1850	1825
27-Jun-2012	905	66	12	466	28	2040	1964	2280	2120	2360	2456	0	8	0	1102	266	342	0	114	152	4	60	3800	3456
29-Jun-2012	425	35	5	226	13	987	976	1220	1160	1270	1210	0	5	0	539	104	39	0	54	50	2	29	1910	1592
06-Jul-2012	1093	104	10	472	35	1405	1332	1339	1253	2138	2005	0	42	133	1066	230	545	379	338	277	4	68	4020	2583
09-Jul-2012	612	53	5	243	22	699	666	704	622	798	855	0	14	0	431	90	379	379	301	254	2	33	1900	1110
11-Jul-2012	555	58	19	284	30	394	385	851	748	1020	843	0	23	0	527	81	154	55	61	109	200	155	2250	1109
13-Jul-2012	494	58	16	277	32	494	477	590	529	852	825	0	32	4	447	302	171	416	305	257	203	160	2330	1044
20-Jul-2012	395	56	4	223	26	797	781	1020	921	1130	974	0	14	0	400	43	0	2	42	27	6	19	1460	2046
23-Jul-2012	330	35	4	240	22	789	781	1080	1010	1290	974	0	18	0	486	27	98	0	19	14	2	17	1200	1980
25-Jul-2012	373	35	3	226	37	789	963	974	862	1150	1017	0	23	0	727	26	0	0	8	9	2	17	1580	2046
27-Jul-2012	335	30	3	347	32	699	719	754	738	980	864	0	23	0	679	111	124	24	8	7	2	17	1680	1947

	Del			Rio Grande	La	El Vado	Abiquiu	Abiquiu			Cochiti		Jemez	Jemez Spgs.		Bosque	Hwy.	Rio	San		Hwy.	San	E. Butte	Caballo
Date	Norte	Lobatos	Embudo	at Embudo	Puente	(DS of Dam)	(US of	(DS of Res)	Chamita	Otowi	(DS of Res)	Galisteo	Springs	(DS of Res)	Albuq.	Farms	346	Puerco	Acacia	Escondida	380	Marcial	(DS of	(DS of Res)
01-Aug-2012	378	34	4	220	63	706	666	1000	982	1000	763	0	13	0	263	22	0	8	14	10	2	16	1350	2037
03-Aug-2012	320	32	4	223	29	706	666	805	852	1050	925	0	8	0	302	14	0	0	14	10	2	15	1070	1856
06-Aug-2012	315	38	8	246	48	699	820	725	823	1010	944	0	11	0	405	14	0	0	5	12	2	27	1380	1795
08-Aug-2012	368	27	22	263	35	706	671	732	823	1010	945	0	17	0	361	0	0	0	3	8	2	28	1370	1936
13-Aug-2012	335	23	5	213	24	721	771	897	911	1020	966	0	10	0	464	0	3	0	5	0	0	26	1890	2091
15-Aug-2012	315	27	4	213	22	728	765	994	926	1100	955	0	10	0	356	0	3	0	5	0	0	28	1080	1210
17-Aug-2012	286	27	5	256	25	721	771	360	804	877	1012	7	10	10	713	0	5	0	5	0	0	35	1080	950
20-Aug-2012	295	32	3	210	29	714	771	697	648	698	757	1	12	0	431	0	24	42	19	1	0	35	948	955
21-Aug-2012	305	32	3	213	34	598	637	690	785	822	765	0	13	10	352	0	36	13	6	6	0	36	962	945
22-Aug-2012	290	27	3	216	38	605	628	642	666	752	505	0	14	0	352	0	56	15	5	96	0	38	971	950
23-Aug-2012	554	60	14	446	76	1182	1266	1284	1386	1816	908	0	30	0	526	0	56	10	180	42	0	70	1942	1900
24-Aug-2012	315	28	10	223	35	612	633	316	350	558	580	0	20	19	166	0	54	1	99	43	76	35	980	736
27-Aug-2012	310	24	6	220	32	584	616	445	464	651	573	0	17	0	176	0	32	12	29	43	63	50	1030	745
28-Aug-2012	315	34	8	220	34	591	612	440	428	582	631	0	16	0	173	0	15	5	32	40	16	50	1040	745
29-Aug-2012	315	23	6	210	38	591	612	451	404	563	463	0	15	0	197	0	11	4	31	37	8	29	1040	687
31-Aug-2012	330	22	4	197	28	584	612	365	350	446	565	0	12	0	163	0	4	0	29	37	0	29	731	687
05-Sep-2012	272	16	3	184	20	598	612	497	497	517	445	0	8	0	137	0	1	0	20	9	0	32	35	522
07-Sep-2012	223	15	3	181	20	591	576	423	331	479	431	0	8	0	111	0	2	0	5	6	0	28	32	512
10-Sep-2012	205	25	2	187	24	591	576	440	363	517	437	0	10	0	128	0	14	0	5	2	0	34	33	490
12-Sep-2012	227	29	3	190	22	598	580	407	337	517	442	0	13	0	134	0	9	2	2	1	0	33	30	477
14-Sep-2012	401	35	15	250	65	612	588	114	124	404	441	0	22	2	267	0	10	6	159	228	183	925	27	0
17-Sep-2012	264	66	9	223	32	616	580	249	192	305	434	0	15	0	143	0	5	11	8	27	0	120	25	0
26-Sep-2012	281	43	12	243	30	612	592	386	325	563	469	0	11	0	122	0	3	0	7	15	0	30	4	0
28-Sep-2012	320	47	8	229	32	605	588	316	257	466	468	0	11	0	125	0	4	0	7	18	0	28	4	0
01-Oct-2012	246	58	6	229	32	605	588	311	279	466	456	0	10	0	153	0	2	0	7	15	0	31	4	0
05-Oct-2012	235	43	5	229	25	400	418	316	279	442	456	0	12	0	137	0	1	0	8	4	0	30	0	0
09-Oct-2012	231	46	11	220	22	306	325	244	237	426	375	0	13	0	119		2	0	8	4	0	26	0	0
12-Oct-2012	231	44	10	223	26	95	103	220	201	400	379	0	14	0	111	0	3	0	8	7	0	20	0	0
15-Oct-2012	305	41	12	243	40	55	53	97	104	404	558	0	18	0	231	0	4	272	111	7	0	24	0	0
19-Oct-2012	231	47	12	229	25	55	50	189	192	450	387	0	14	0	140	25	4	1	7	10	0	20	0	0
22-Oct-2012	238	35	14	236	24	53	50	168	158	419	376	0	11	0	134	29	5	0	12	19	0	30	0	0
26-Oct-2012	192	35	37	216	26	55	56	138	131	350	340	0	15	0	125	34	5	0	19	27	0	29	0	0
31-Oct-2012	212	46	14	250	25	57	67	77	104	381	323	0	19	0	140	81	13	0	28	47	0	30	0	0

# APPENDIX B REPORT OF 2012 FLOW ESTIMATES AND LONGITUDINAL LIMITS OF RUNNING WATER CONDITIONS IN THE MIDDLE RIO GRANDE

#### River Eyes Report - 2012 Isleta Reach **Estimated** Flow River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Flow (cfs) **Estimate** Avg (Range) Observation Date Time Location\* Type Top (N - E) Bottom (N - E) Comments 07-May-2012 **General Comments:** Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations. No sitespecific observations 0:00 General comment (RM 0) Continuous flow available/applicable 08-May-2012 **General Comments:** Flow in the main river channel is believed to be continuous throughout the isleta Reach based on USGS internet postings of flow and field observations. No sitespecific observations. 0:00 General comment (RM 0) Continuous flow available/applicable 09-May-2012 **General Comments:** Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations. No sitespecific observations. 0:00 General comment (RM 0) Continuous flow available/applicable

	Isla	eta Reach	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13)				
Date	Time					Top (N	- E)	Bottom (	N - E)	Comments
0-May-2	2012	General Comments:	Flow in the main river channel is t specific observations.	believed to be continuous throu	ighout the Isleta Reach ba	sed on US	GS interne	et postings of f	ow and t	field observations. No s
	0.00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	~	-	-	=	None
1-May-2	2012	General Comments:	Flow in the main river channel is a specific observations.	believed to be continuous throu	ighout the Isleta Reach ba	ised on ÚS	GS interne	et postings of f	ow and t	field observations. No si
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	-	-	-	_	None
3-May-1	2012	General Comments:	Flow in the main river channel is to specific observations.	believed to be continuous throu	ighout the Isleta Reach ba	sed on US	GS interne	et postings of f	ow and l	field observations. No s
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	-	8	ė	=	None
4-May-1	2012	General Comments:	Flow in the main river channel is a specific observations.	believed to be continuous throu	ighout the Isleta Reach be	ised on US	GS interne	el postings of f	ow and t	field observations. No si
	0:00	General comment (RM 0)	Continuous flow	NA-	Not available/applicable	- 277	_	-	-	None

	Isle	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13)				
Date	Time					Top (N	I - E)	Bottom (	(N - E)	Comments
5-May-3	012	General Comments: Flo spe	w in the main river channel is cific observations	believed to be continuous through	out the Isleta Reach ba	ased on US	GS interne	at postings of f	low and fi	ield observations. No
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable		=	24)	T-R	None
		Rio Grande at Los Lunas (RM 161.4)	Continuous flow	275,00 (275 - 275)	Visual	₩	-	÷	-	None
	13:35		Continuous flow	275.00 (275 - 275) 250.00 (250 - 250)		*	-	-	2	None None
	13:35	161.4) Rio Grande at Peralta		4554-20-153	Visual	F - 1	E 0 2	\$ 0 0	7 01 1	
-May-2	13:35	161.4) Rio Grande at Peralta Wasteway (RM 152.5) Rio Grande at Hwy 346 (RM 140.8) General Comments:	Continuous flow	250.00 (250 - 250)	Visual Visual Visual	-	GS interne	et postings of fi		None

-	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 83, Zone 13)			
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comment	s
8-May-2	012	General Comments:	Flow in the main river channel is	believed to be continuous through	out the Isleta Reach ba	sed on US	GS interne	et postings of	flow and f	ield observatio	ns.
	8;30	Rio Grande at Bosque Farn Gauge (RM 164.5)	ns Continuous flow	294 00 (294 - 294)	Measured	1000	-		HH	None	
	6:45	Rio Grande at Los Lunas (F 161.4)	RM Continuous flow	250,00 (250 - 250)	Visual	-	-	-	-	None	
21-May-2	012	General Comments:	Flow in the main river channel is	continuous throughout the Isleta i	Réach. No site-specific	observation	ns.				
	0:00	General comment (RM 0)	Continuous flow	NA.	Nol available/applicable	-	-	=	-	None	
2-May-2	012			believed to be continuous through	out the Isleta Reach ba	ised on US	GS Interne	et postings of	flow and f	ield observatio	ns. Nos
			specific observations.								
	0:00	General comment (RM 0)	specific observations.  Continuous flow	NA	Not available/applicable		_	н		None	
3-May-2		General comment (RM 0) General Comments:	Continuous flow	NA believed to be continuous through	Not available/applicable	esed on US	GS interne	et postings of	flow and f		ns. No s

	Isle	ta Reach	_	Estimated Flow (cfs)	Flow Estimate			S Coordin 83, Zone 13)	ates	
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom (	N - E)	Comments
24 -May -2	2012	General Comments:			4.50	- 77				
			Flow in the main river channel is specific observations.	believed to be continuous throu	ighout the Isleta Reach ba	sed on US	GS interne	t postings of f	ow and	ield observations. No site
	0.00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	-	~	-	~	None
0-May-2	2012	General Comments:								
			Flow in the main river channel is specific observations.	believed to be continuous throu	ighout the Isleta Reach ba	ised on US	GS Interne	t postings of f	ow and I	ield observations. No site
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	-	~		-	None
1-May-2	2012	General Comments:	Flow in the main river channel is specific observations.	believed to be continuous throu	ighout the Isleta Reach ba	sed on US	GS interne	t postings of f	ow and	ield observations. No sit
		47 - 13 TH THE WAY								
	0.00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	-		9	Ξ	None
)1-Jun-2	012	General Comments:	Flow in the main river channel is specific observations.	believed to be continuous throu	ighout the Isleta Reach ba	sed on US	3S Interne	et postings of f	ow and	ield observations. No silv
	0:00	General comment (RM 0)	Continuous flow	NA.	Not available/applicable	_		-	-	None

	Isle	eta Reach		Estimated Flow (cfs)	Flow Estimate			S Coordina 83, Zone 13)	tes	
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	E)	Bottom (f	1 - E)	Comments
12-Jun-2	2012	General Comments:	Flow in the main river channel is specific observations.	believed to be continuous throu	ighout the Isleta Reach ba	sed on USG	S interne	t postings of flo	w and f	ield observations. No si
	0.00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	_	~	~	-	None
3-Jun-2	2012	General Comments:	Flow in the main river channel is specific observations.	believed to be continuous throu	ighout the Isleta Reach ba	sed on USG	S interne	et postings of flo	w and f	ield observations. No s
	0;00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	-	~	~	-	None
4-Jun-2	2012	General Comments:	Flow in the main river channel is specific observations.	believed to be continuous throu	ighout the Isleta Reach ba	sed on USG	S interne	et postings of flo	w and f	ield observations. No s
	0.00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	-	3	÷	9	None
)5√Jun-2	2012	General Comments:	Flow in the main river channel is specific observations.	believed to be continuous throu	ighout the Isleta Reach ba	ised on USG	S Interne	et postings of flo	w and f	ield observations. No s
	0:00	General observation (RM	0) Continuous flow	NA	Not available/applicable	-	_	-	_	None

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate			IS Coordii 983, Zone 13		
Date	Time	Location*	Observation	Avg (Range)	Type	Top (N	- E)	Bottom	(N - E)	Comments
6-Jun-	2012	General Comments:	w in the main river channel is	believed to be continuous througho	ut the Isleta Reach t	pased on US	GS interne	et postings of	flow and I	ield observations.
		Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	155,00 (150 - 160)	Visual	len.		-		None
	8:20	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	135.00 (130 - 140)	Visual	-	~	-	=	None
		Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	160,00 (150 - 170)	Visual	-	-	-	2	None
		Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	175.00 (170 - 180)	Visual	-	-	-	-	None
		Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	175,00 (170 - 180)	Visual	-	-	-	_	None
)8-Jun-2	2012	General Comments:	w in the main river channel is	believed to be continuous througho	ut the Isleta Reach b	pased on US	GS intern	et postings of	flow and i	ield observations,
		Rio Grande at Belen (RM 149.5)	Continuous flow	160,00 (150 - 170)	Visual	$\overline{}$	-	.0	-	None

1:	sle	ta Reach		Estimated Flow (cfs)	Flow Estimate			IS Coordin 983, Zone 13)	ates	
Date T	ime	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom (	N - E)	Comments
9-Jun-201:	2 (	General Comments:	ow in the main river channel is	believed to be continuous throug	hout the Isleta Reach ba	ased on USG	S intern	et postings of f	low. No	site-specific observa
	0:00	General comment (RM 0)	Continuous flow	NA:	Not available/applicable	lee"	-		-	None
0-Jun-201	2 (	General Comments:	ow in the main river channel is	believed to be continuous throug	hout the Isleta Reach ba	ased on USC	S intern	et postings of f	low. No	site-specific observa
_ = 9	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	-	_		-	None
1-Jun-201	2 (	General Comments: FI	ow in the main river channel is	believed to be continuous throug	hout the Isleta Reach ba	ased on USG	S Intern	et postings of f	low. No	site-specific observa
Ŋ	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	-	-	-	-	None
6-Jun-201	2 (	General Comments:	ów in the main river channel is	believed to be continuous throug	hout the Isleta Reach ba	esed on USG	SS intern	el postings of f	low and I	ield observations.
İ		Rio Grande at Los Lunas (R/ 161.4)	VI Continuous flow	160,00 (150 - 170)	Visual	-	-	0	-	None
1		Rio Grande at Belen (RM 149.5)	Continuous flow	90.00 (80 - 100)	Visual	-	-	_	-	None

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate			IS Coordin 83, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
18-Jun-20	112	General Comments:	in the main river channel is	believed to be continuous througho	ut the Isleta Reach t	pased on US	GS interne	t postings of	flow and f	ield observations
	13,30	Rio Grande at Belen (RM 149.5)	Continuous flow	80 00 (80 - 80)	Visual		-	-	-	None
21-Jun-20	012	General Comments:	Section 1			- 7.7				
		Flov	in the main river channel is	believed to be continuous througho	ut the Isleta Reach t	ased on US	GS interne	et postings of	flow and f	ield observations
	12:45	Rio Grande to Los Lunas (RM 161.4)	Contiunous flow	115,00 (110-120)	Visual	-	_	Θ.	-	None
	12:28	Rio Grande at Belen (RM 149.5)	Continuous flow	80,00 (70 - 90)	Visual	-	-	-	-	None
	12:09	Rio Grande at Hwy 346 (RM 140.8)	Contiunous flow	60.00 (50 - 70)	Visual	-	-	-	-	None
	11:58	Rio Grande at Hwy 60 (RM 130.6)	Contiunous flow	60.00 (50 - 70)	Visual	-	-	-	_	None
23-Jun-20	112	General Comments:	7-9-7-							
		Floy	in the main river channel is	believed to be continuous througho	ut the Isleta Reach b	esed on US	GS interne	et postings of	flow and f	ield observations
	17:40	Rio Grande at Los Lunas (RM 161.4)	Continuous flow	115,00 (110 - 120)	Visual	-	-		-	None
	17:15	Rio Grande at Belen (RM 149.5)	Continuous flow	60,00 (50 - 70)	Visual	-	Cap.	~	_	None
	16:58	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	70.00 (60 - 80)	Visual	~	$(x_{i}, x_{i}) \in \mathcal{A}_{i}$	~	~	None
	16:43	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	50.00 (40 - 60)	Visual	-	-	-	4	None

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate		-	IS Coordinat 83, Zone 13)	es	
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N -	E)	Bottom (N	- E)	Comments
4-Jun-2	2012	General Comments:	w in the main river channel is	believed to be continuous throu	ghout the Isleta Reach b	ased on USGS	S interne	et postings of flo	v. Not	ield observations this da
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	-		2		None
5-Jun-2	2012		w in the main river channel is servations 6:15	believed to be continuous throu	ghout the Isleta Reach b	ased on USGS	S interne	et postings of flo	y and :	site-specific
	6:15	Rio Grande just upstream of Peralta Wasteway (RM 152.7)	Continuous flow	45.00 (40 - 50)	Visual		-	8	7	Wetted channel 83 ft wide; average depth estimated to be 0.4 ft deep.
S-Jun-2	2012	General Comments:	w in the main river channel is:	believed to be continuous throu	ghout the Isleta Reach b	ased on USGS	Sinterne	et postings of flow	v and s	site-specific observation
	6:30	Rio Grande one mile upstream of Peralta Wasteway (RM 153,5)	Continuous flow	45.00 (40 - 50)	Visual	-	-	=	-	Wetted channel 50 ft wide; average depth estimated to be 0.8 ft deep.
	6:57	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	70.00 (60 - 80)	Visual	$\sim$	-	$\sim$	-	None
	7:12	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	55.00 (50 - 60)	Visual	-	1000	_	بند	None

	Isle	eta Reach		Estimated Flow (cfs)	Flow Estimate			IS Coordii 83, Zone 13		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
27-Jun-2	012	General Comments: Flo	w in the main river channel is	believed to be continuous through	out the Isleta Reach t	pased on US	GS interne	et postings of	flow and	site-specific observations.
	6:20	Rio Grande 1 mile upstream of Peralta Wasteway (RM 153.5)	Continuous flow	12.50 (10 × 15)	Visual	lee	-	-	-	Wetted channel 25 ft wide; average estimated depth = 0.75 ft.
	6:30	Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	37.50 (35 - 40)	Visual	-	-	-	-	None
28-Jun-2	012	General Comments:								
		Fio	w in the main river channel is	believed to be continuous through	out the Isleta Reach b	ased on US	GS interne	et postings of	flow and	site-specific observations.
	5:41	Rio Grande one mile upstream of Peralta Wasteway (RM 153.5)	Continuous flow	12.50 (10 - 15)	Visual	-	-	-	-	Wetted channel 25 ft wide; average estimated depth = 0.75 ft.
	6:30	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	25.00 (20 - 30)	Visual	>	-	-	-	None
29-Jun-2	012	General Comments:								
		Flo	w in the main river channel is	believed to be continuous through	out the Isleta Reach b	pased on US	GS interne	et postings of	flow and	site-specific observations.
	5:30	Rio Grande at the Peralta Main Wasteway (RM 152,5)	Continuous flow	12.50 (10 - 15)	Visual	=	-	-	-	None
	6:00	Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	12,50 (10 - 15)	Visual	-	-	-	-	None
	8:00	Rio Grande at Hwy 346 (RM 140,8)	Continuous flow	35.00 (30 - 40)	Visual	-	-	_		None
	7:30	Rio Grande at Veguita (RM 136.5)	Continuous flow	25.00 (20 - 30)	Visual	-	-	$\rightarrow$	$\overline{}$	None

Isle	eta Reach		Estimated Flow (cfs)	Flow Estimate	River D	rying G M NAD 19							
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments				
O-Jun-2012 General Comments:  Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and site-specific observations.													
6.00	Rio Grande 1.5 miles upstream of Peralta Wasteway (RM 154)	Continuous flow	7.00 (7 - 7)	Measured	***		÷	=	Measured with Marsh McBirney, 5 sections, channel width = 18 ft				
6:30	Rio Grande at the Peralta Main Wasteway (RM 152.5)	Continuous flow	10.00 (10 - 10)	Visual	-	-	-	_	None				
6:45	Peralta Main Wasteway (RM 152.5)	No discharge	0.00 (0 - 0)	Visual	-	-	-	-	None				
7:00	LP1DR Wasteway (RM 150)	No discharge	0.00 (0 - 0)	Visual	-	-	140	$\rightarrow$	None				
7:10	Rio Grande at Belen (RM 149.5)	Continuous flow	12,50 (10 - 15)	Visual	-	-	-	***	None				
6:45	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	32.00 (32 - 32)	Visual	100	_	-	-	Estimate of observed flow informed by interne posting				
7:45	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	17.50 (15 - 20)	Visual	-	-	-	-	None				

	Isleta Reach	ta Reach		Estimated Flow (cfs)	Flow Estimate			IS Coordii 83, Zone 13		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
01-Jul-20	12	General Comments:							ta a	4
		Flow	in the main river channel is belied	ved to be continuous through	out the Isleta Reach b	ased on US	GS interne	et postings of	flow and s	site-specific observations.
		Rio Grande 1.5 miles upstream of Peralta	Continuous flow	10.00 (10 - 10)	Visual	_	_	ے		None
		Wasteway (RM 154)								
	5:45	Peralta Main Wasteway at Rio Grande (RM 152 5)	Irrigation Water Discharge	5.00 (5 - 5)	Visual	-	-	-	7	None
	6:00	Rio Grande at the Peralta Main Wasteway (RM 152.5)	Continuous flow	5.00 (5 - 5)	Visual	-	-	-	=	None
	5:00	LP1DR Wasteway (RM 150)	No discharge	0.00 (0 - 0)	Visual	1444	_	-	-	None
	6:45	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	26,00 (26 - 26)	Visual	-	-	-	-	Estimate of observed flow informed by interne posting
	7:15	Rio Grande at Abo Arroyo (RM 139.2)	Continuous flow	17.50 (15 - 20)	Visual	-	-	-	$\rightarrow$	None
	7:45	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	17,50 (15 - 20)	Visual	-	-	-	-	None

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate			IS Coordii 83. Zone 13		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
Z-Jul-20	012 (	General Comments:			3.0.7.2					
		Flo	w in the main river channel is be	elleved to be continuous through	out the Isleta Reach t	based on US	GS interne	et postings of	flow and s	site-specific observations
	10,000	Rio Grande 1.5 miles upstream of Peralta Wasteway (RM 154)	Continuous flow	3.50 (2 - 5)	Visual	-	1-0	÷	-	None
		Rio Grande at the Peralta Main Wasteway (RM 152.5)	Continuous flow	3,50 (2 - 5)	Visual	+	_	4	-	None
		Peralta Wasteway at Rio Grande (RM 152.5)	Irrigation discharge	5.00 (5 - 5)	Visual	-	-	-	-	None
		Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	10.00 (10 - 10)	Visual	-	~	-	-	None
		Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	23 00 (23 - 23)	Visual	+	-	÷	=	Estimate of observed flow in agreement with internet posting
		Rio Grande at Veguita (RM 136.5)	Continuous flow	12 50 (10 - 15)	Visual	44	-	4		None
		Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	12,50 (10 - 15)	Visual	-	-	-	-	None

Isle	eta Reach		Estimated Flow (cfs)	Flow Estimate			IS Coordin 983, Zone 13)		
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
3-Jul-2012	General Comments:	in the main river channel is be	elieved to be continuous through	out the Isleta Reach t	pased on US	GS Interne	et postings of	flow and s	site-specific observations.
6;00	Rio Grande 1.5 miles upstream of Peralta Wasteway (RM 154)	Continuous flow	2.00 (1 - 3)	Visual	-		les!	-	None
5.40	Rio Grande 0.5 miles upstream of Peralta Wasteway (RM 153)	Continuous flow	1.50 (1-2)	Visual	-	-	-	7	None
5:25	Rio Grande at the Peralta Main Wasteway (RM 152.5)	Continuous flow	1.50 (1 - 2)	Visual	-	~	-	9	None
6:30	Peralta Main Wasteway at Rio Grande (RM 152.5)	Irrigation discharge	10.00 (10 - 10)	Visual	-	-	-	-	None
6:50	Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	7.50 (5 - 10)	Visual	***	$\overline{}$	-	-	None
6:45	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	21.00 (21 - 21)	Visual	-	~	-	-	Estimate of observed flow in agreement with USGS internet posting flow

	Isleta Rea	ta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

04-Jul-2012 General Comments: The river is dry or reduced to isolated pools over a 1.2 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 1.2-mile segment extending south from a point approximately 1.6 miles upstream of Peralta Main Wasteway (RM 154.1) to a point approximately 0.4 miles upstream of Peralta Main Wasteway (RM 152.9) Aside from this segment, the flow in the main river channel is continuous in the Islata Reach

Rio Grande 1.6 miles upstream of Peralta Wasteway (RM 154.1)	Top of discontinuous flow	0.00 (0 - 0)	Visual	3842686	340107	-	12	None
Rio Grande 0.4 miles upstream of Peralta Wasteway (RM 152.9)	Bottom of discontinuous flow	0.00 (0 - 0)	Visual	-	-	3840774	340043	None
Rio Grande at the Peralta Main Wasteway (RM 152.5)	Continuous flow	1.50 (1 - 2)	Visual	-		-	-	None
Peralta Wasteway at Rio Grande (RM 152.5)	No discharge from irrigation infrastructure	0.00 (0 - 0)	Visual	-	~	-	-	None
Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	7.50 (5 - 10)	Visual	+	-	=	-	None
Rio Grande at Hwy 346 (RM 140,8)	Continuous flow	18,00 (18 - 18)	Visual	-	-	8	-	Estimate of observed flow in agreement with USGS posting of flow
Rio Grande at US 60 (RM 130.6)	Continuous flow	7,50 (5 - 10)	Visual	~	-	~	-	None
	upstream of Peralta Wasteway (RM 154.1) Rio Grande 0.4 miles upstream of Peralta Wasteway (RM 152.9) Rio Grande at the Peralta Main Wasteway (RM 152.5) Peralta Wasteway at Rio Grande (RM 152.5) Rio Grande at Belen Bridge (RM 149.5) Rio Grande at Hwy 346 (RM 140.8) Rio Grande at US 60 (RM	upstream of Peralta Wasteway (RM 154.1)  Rio Grande 0.4 miles upstream of Peralta Wasteway (RM 152.9)  Rio Grande at the Peralta Main Wasteway (RM 152.5)  Peralta Wasteway at Rio Grande (RM 152.5)  Rio Grande at Belen Bridge (RM 149.5)  Rio Grande at Hwy 346 (RM  Continuous flow   upstream of Peralta         Bottom of discontinuous flow         0.00 (0 - 0)           Rio Grande 0.4 miles upstream of Peralta         Bottom of discontinuous flow         0.00 (0 - 0)           Wasteway (RM 152.9)         Rio Grande at the Peralta Main Wasteway (RM 152.5)         Continuous flow         1.50 (1 - 2)           Peralta Wasteway at Rio Grande (RM 152.5)         No discharge from irrigation infrastructure         0.00 (0 - 0)           Rio Grande at Belen Bridge (RM 149.5)         Continuous flow         7.50 (5 - 10)           Rio Grande at Hwy 346 (RM 140.8)         Continuous flow         18.00 (18 - 18)           Rio Grande at US 80 (RM Continuous flow         7.50 (5 - 10)	upstream of Peralta         Wasteway (RM 154.1)           Rio Grande 0.4 miles upstream of Peralta         Bottom of discontinuous flow         0.00 (0 - 0)         Visual upstream of Peralta           Wasteway (RM 152.9)         Rio Grande at the Peralta Main Wasteway (RM 152.5)         Continuous flow         1.50 (1 - 2)         Visual Main Wasteway (RM 152.5)           Peralta Wasteway at Rio Grande (RM 152.5)         No discharge from irrigation infrastructure         0.00 (0 - 0)         Visual Main Wasteway (RM 152.5)           Rio Grande at Belen Bridge (RM 149.5)         Continuous flow         7.50 (5 - 10)         Visual Main Wasteway (RM 149.5)           Rio Grande at Hwy 346 (RM Continuous flow         18.00 (18 - 18)         Visual Main Wasteway (RM 149.5)           Rio Grande at US 80 (RM Continuous flow         7.50 (5 - 10)         Visual Main Wasteway (RM 152.5)	upstream of Peralta         Bottom of discontinuous flow         0.00 (0 - 0)         Visual         —           upstream of Peralta         Bottom of discontinuous flow         0.00 (0 - 0)         Visual         —           wasteway (RM 152.9)         Rio Grande at the Peralta         Continuous flow         1.50 (1 - 2)         Visual         —           Rio Grande at the Peralta Main Wasteway (RM 152.5)         No discharge from irrigation infrastructure         0.00 (0 - 0)         Visual         —           Grande (RM 152.5)         Infrastructure         7.50 (5 - 10)         Visual         —           Rio Grande at Belen Bridge (RM 149.5)         Continuous flow         18.00 (18 - 18)         Visual         —           Rio Grande at Hwy 346 (RM         Continuous flow         7.50 (5 - 10)         Visual         —           Rio Grande at US 60 (RM         Continuous flow         7.50 (5 - 10)         Visual         —	upstream of Peralta         Wasteway (RM 154.1)           Rio Grande 0.4 miles upstream of Peralta         Bottom of discontinuous flow         0.00 (0 - 0)         Visual           Wasteway (RM 152.9)         Rio Grande at the Peralta Main Wasteway (RM 152.5)         Continuous flow         1.50 (1 - 2)         Visual           Peralta Wasteway at Rio Grande (RM 152.5)         No discharge from irrigation infrastructure         0.00 (0 - 0)         Visual         —           Rio Grande at Belen Bridge (RM 149.5)         Continuous flow         7.50 (5 - 10)         Visual         —           Rio Grande at Hwy 346 (RM 20)         Continuous flow         18.00 (18 - 18)         Visual         —           Rio Grande at US 80 (RM 20)         Continuous flow         7.50 (5 - 10)         Visual         —	upstream of Peralta         Wasteway (RM 154.1)           Rio Grande 0.4 miles upstream of Peralta         Bottom of discontinuous flow         0.00 (0 - 0)         Visual         — 3840774           Wasteway (RM 152.9)         Rio Grande at the Peralta Main Wasteway (RM 152.5)         Continuous flow         1.50 (1 - 2)         Visual         — —           Peralta Wasteway at Rio Grande (RM 152.5)         No discharge from irrigation infrastructure         0.00 (0 - 0)         Visual         — —           Rio Grande at Belen Bridge (RM 149.5)         Continuous flow         7.50 (5 - 10)         Visual         — —           Rio Grande at Hwy 346 (RM Continuous flow         18.00 (18 - 18)         Visual         — —           Rio Grande at US 80 (RM Continuous flow         7.50 (5 - 10)         Visual         — —	upstream of Peralta         Wasteway (RM 154.1)           Rio Grande 0.4 miles         Bottom of discontinuous flow         0.00 (0 - 0)         Visual         — 3840774 340043           upstream of Peralta         Wasteway (RM 152.9)         Rio Grande at the Peralta         Continuous flow         1.50 (1 - 2)         Visual         — —           Rio Grande at the Peralta Wasteway (RM 152.5)         No discharge from irrigation infrastructure         0.00 (0 - 0)         Visual         — —           Grande (RM 152.5)         No discharge from irrigation infrastructure         0.00 (0 - 0)         Visual         — —           Rio Grande at Belen Bridge (RM 149.5)         Continuous flow         7.50 (5 - 10)         Visual         — —           Rio Grande at Hwy 346 (RM Continuous flow         18.00 (18 - 18)         Visual         — —           Rio Grande at US 60 (RM Continuous flow         7.50 (5 - 10)         Visual         — —	

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
5-Jul-20	012	General Comments: The	river is dry or reduced to isolated po	ools over a 1.58 mile segme	ent in the Isleta React	S,				
		154	er is reduced to isolated pools over a .08) to the Peralta Main Wasteway ( tinuous in the Isleta Reach.							
	6:30	Rio Grande 1.58 miles upstream of Péralta Wasteway (RM 154.08)	Top of discontinuous flow	0.00 (0 - 0)	Visual	3842643	340076	-	_	None
	6:00	Rio Grande at the confluence with Peralta Wasteway (RM 152.5)	Bottom of discontinuous flow	0.00 (0 - 0)	Visual	=	-	3840149	340126	None
	7:00	Peralta Wasteway at Rio Grande (RM 152.5)	Irrigation discharge to river	15.00 (15 - 15)	Visual	-	~	-	~	None
	5:00	LP1DR Wasteway (RM 150)	Irrigation discharge to river	20.00 (20 - 20)	Visual	-	~	-		None
	7:30	Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	17.50 (15 - 20)	Visual	-	-	-	-	None
	6:45	Rio Grande al Hwy 346 (RM 140.8)	Continuous flow	21.00 (21 - 21)	Visual	-	_	-	-	Estimate of observed flow in agreement with USGS posting of flow
5-Jul-20	012	Rive 155	river is dry or reduced to isolated po er is reduced to isolated pools over a .86) to the Peralla Main Wasteway (	3.36-mile segment extend RM 152.5). This includes 1	ing south from a point .78 miles of "new dry	approximate	very slow!			
		was	observed. Aside from this segmen	t, the flow in the main river	channel is continuous	in the Isleta	Reach.			
	7:00	Rio Grande 3.36 miles upstream of Peralta Wasteway (RM 155.86)	Top of river drying	0.00 (0 - 0)	Visual	3845176	340518	-3	-	None
	7:30	Rio Grande at the confluence of the Peralta Wasteway (RM 152.5)	Bottom of river drying	0.00 (0 - 0)	Visual	-	lese.	3840149	340126	None

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13)				
Date	Time	Location*	Observation	Avg (Range)		Top (N -	E)	Bottom (N -	E) Cor	nments
7√u -2	012			pelieved to be continuous throughord d surface flow yesterday (extending					ind site-sp	ecific observation
	5:30	Rio Grande 0.25 mi upstream of Peralta Wasteway (RM 152.75)	Continuous flow	115,00 (115 - 115)	Visual	9	9	9 7	- Non-	
8-Jul-2	012	General Comments:	win the main river channel is t	pelieved to be continuous throughou	ut the Isleta Reach t	pased on USGS	Interne	et postings of flow	ind site-sp	ecific observation
		Rio Grande 0.25 ml upstream of Peralta Wasteway (RM 152.75)	Continuous flow	75,00 (70 - 80)	Visual	-	-	-	Non	9
		Peralta wasteway at Rio Grande (RM 152.5)	Imigation discharge	32.50 (30 - 35)	Visual	$\sim$	-	-	None	ē.
9-Jul-2	012	General Comments:	w in the main river channel is t	believed to be continuous throughou	ut the Isleta Reach t	ased on USGS	interne	at postings of flow	ind site-sp	ecific observatio
		Rio Grande at Los Chavez Wasteway (RM 156)	Continuous flow	50.00 (40 - 60)	Visual	$\sim$	-	-	Non	ę

- 1	sle	ta Reach		Estimated Flow (cfs)	Flow Estimate			S Coordin 33, Zone 13)		
Date T	ime	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
Jul-2012	2	General Comments:				- 77	24.5			
		Flo	w in the main river channel is bel	lieved to be continuous throughou	it the Isleta Reach t	pased on US	GS internet	postings of	flow and s	ite-specific observations.
	5:45	Rio Grande 0.5 miles upstream of Peralla Wasteway (RM 153)	Continuous flow	3.50 (2 - 5)	Visual	No.	-	-	V-max 1	None
	5:30	Peralta wasteway at the Rio Grande (RM 152.5)	Irrigation discharge	2.50 (2 - 3)	Visual	-	-	$\rightarrow$	-	None
	6:30	Peralta wasteway at the Rio Grande (RM 152.5)	Imigation discharge	0.20 (0.2 - 0.2)	Visual	$\rightarrow$	$\sim$	-	$\rightarrow$	None
	7:08	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	60.00 (55 - 65)	Visual	-	-	-	-	None
	7:23	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	60,00 (55 - 65)	Visual	-	~	-	-	None
1-Jul-2012	2	Flo	w in the main river channel is red	ed pools over a 0.9 mile segment fuced to isolated pools over a 0.9 "new drying." Aside from this se	mile segment exter	nding south f				
		Rio Grande 1.6 miles upstream of Peratta Wasteway (RM 154.1)	Top of river drying	0.00 (0 - 0)	Visual	3842689	340112	=	-	None
	6:12	Rio Grande 0,8 miles upstream of Peralta Wasteway (RM 153,3)	Bottom of river drying	0,00 (0 - 0)	Visual	ω.	9	3841287	339747	Note: river may have dried downstream to Peralta Wasteway one two hours after this observation.
	5:45	Rio Grande 0.25 miles upstream of Peralta Wasteway (RM 152,75)	Continuous flow	0.25 (0.25 - 0.25)	Visual	1995	i Res	100	-	None
	5:30	Peralta wasteway at the Rio Grande (RM 152.5)	Irrigation discharge	12,50 (10 - 15)	Visual	-	-	-	=	None

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying GIS Coordinates (UTM NAD 1983, Zone 13)				
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
12-Jul-20	012	General Comments:	w in the main river channel is believe	od to be configurate themicke	of the Islate Beach	parad an UP	CS latem	et applicat of	flaw and a	ita cacalila abcasalia
		rio	will the main liver channer is believe	ed to be continuous iniculgitor	it tile isleta Reacti L	iased on US	GG illenie	n postings of	now and s	ste-specific observation
	6:00	Rio Grande 0,25 miles upstream of Peralta Wasteway (RM 152,75)	Continuous flow	42.50 (40 × 45)	Visual	i de es	-		-	None
	5:50	Peralta wasteway at the Rio Grande (RM 152.5)	No discharge from Peralla Waste Way	0.00 (0 - 0)	Visual	-	-	-	-	None
13-Jul-20	012	General Comments:								
		Flor	w in the main river channel is believe	ed to be continuous throughou	it the Isleta Reach b	ased on US	GS interne	t postings of	flow and s	ite-specific observatio
	5.44	Rio Grande 1.5 miles	Continuous flow	2.50 (2 - 3)	Visual		_		2	None
	3.43	upstream of Peralta Wasteway (RM 154)		200 (2000)	710011					114114
	6.00	Rio Grande 0.25 miles upstream of Peralta Wasteway (RM 152.75)	Continuous flow	0,25 (0,25 - 0,25)	Visual	-	-	-	-	None
	5:45	Peralta Wasteway at Rio Grande (RM 152.5)	Imgation wasteway discharge	9.50 (7 - 12)	Visual	-	-	-	-	None
	7:21	Peralta Wasteway at Rio Grande (RM 152.5)	No irrigation wasteway discharge	0.00 (0 - 0)	Visual	-	~	$\sim$	-	None
14-Jul-20	012	General Comments:		l ye e	575.70		, .			
		Flor	w in the main river channel is believe	ed to be continuous throughou	uf the Isleta Reach t	ased on US	GS interne	et postings of	flow and s	ile-specific observatio
	5:55	Rio Grande 0,25 miles	Continuous flow	22,50 (20 - 25)	Visual	_	_	_		None
		upstream of Peralta Wasteway (RM 152,75)								
	5:30	Peralta Wasteway at Rio Grande (RM 152.5)	Irrigation discharge	7,50 (5 - 10)	Visual	-	-	-	3	None
	6.00	Rio Puerco at I-25 (RM 126.5)	Continuous flow	300.00 (300 - 300)	Visual	-	-	-	3.0	None

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
-Jul-20	12	General Comments:	The river is dry or reduced to isolated po	ols over a 0.5 mile segment	in the Isleta Reach.					1000
			River is reduced to isolated pools over a to a point 0.8 miles upstream of Peralta continuous in the Isleta Reach.							
	7:00	Rio Grande 1.3 miles upstream of Peralta Wasteway (RM 153.8)	Top of river drying	0.00 (0 - 0)	Visual	3842099	339670	-	-	None
	6:15	Rio Grande 0.8 miles upstream of Peralta Wasteway (RM 153.3)	Bottom of river drying	0.00 (0 - 0)	Visual	-	-	3841280	339734	None
	6:00	Rio Grande 0,5 miles upstream of Peralta Wasteway (RM 153)	Continuous flow	0.25 (0.25 - 0.25)	Visual	-	~	-		None
	5:30	Rio Grande 0.25 miles upstream of Peralta Wasteway (RM 152.75)	Continuous flow	1,50 (1 - 2)	Visual	-	-	-	_	None
	5:25	Peralta Wasteway at Rio Grande (RM 152.5)	Irrigation wasteway discharge	0.00 (0 - 0)	Visual	-	lee!	-		None
6-Jul-20	12	General Comments:	The river is dry or reduced to isolated po River is reduced to isolated pools over a 156.3) to the Peralta Main Wasteway (R continuous in the Isleta Reach.	34.2-mile segment extendin	g south from a point	approximate				
		Rio Grande 4.2 miles upstream of Peralta Wasteway (RM 156,7)	Top of over drying	0.00 (0 - 0)	Visual	3846203	340465	-	-	None
	5 15	Peralta Wasteway at Rio Grande (RM 152.5)	Imigation wasteway discharge	12,50 (10 - 15)	Visual	+	-	-		None
	5:30	Rio Grande at Peralla Wasteway (RM 152.5)	Bottom of river drying	0.00 (0-0)	Visual	-	$\sim$	3840149	340126	None

	sle	ta Reach		Estimated Flow (cfs)	Flow Estimate			S Coordin 33, Zone 13)		
Date T	ime	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
7√ul-2012	2 (	General Comments:	The river is dry or reduced to isolated port. River is reduced to isolated pools over to a point approximately 0.4 miles down in the main river channel is continuous.	5.8-mile segment extendir stream of Peralta Main Wa	g south from a point	approximately				
· ·	-	Rio Grande 1,2 miles upstream of Los Chavez Wasteway (RM 157.9)	Top of river drying	0.00 (0 - 0)	Visual	3847824	341178	-	-	None
		Peralta Wasteway at Rio Grande (RM 152.5)	Irrigation discharge to river	0.00 (0 - 0)	Visual	-	-	-	-	None
		Rio Grande 0.4 miles downstream of Peralla Wasteway (RM 152.1)	Bottom of river drying	0.00 (0 - 0)	Visual	-	-	3839575	340361	None
				ools over a 6 mile segment		approvimatel	. 1 6 miles	Unelsoom o	Flor Chai	er Macteury / P
			River is reduced to isolated pools over a to Peralta Main Wasteway (RM 152.5). of river drying". Aside from this segmen	6.0-mile segment extendir This includes 0.6 miles of	ig south from a point in	p of river dryi	ng'. Since			
ij	313.5	Rio Grande 1.6 miles üpstream of Los Chavez Wasteway (RM 158.5)	River is reduced to isolated pools over a to Peralta Main Wasteway (RM 152.5).	6.0-mile segment extendir This includes 0.6 miles of	ig south from a point in	p of river dryi	ng'. Since			
		upstream of Los Chavez	River is reduced to isolated pools over a to Peralta Main Wasteway (RM 152.5). of river drying". Aside from this segmen	a 6.0-mile segment extendir This includes 0.6 miles of it, the flow in the main river	ig south from a point new drying at the "to channel is continuous	p of river dryi s in the Isleta	ng' Since Reach.			of river rewet at th
3	5:15	upstream of Los Chavez Wasteway (RM 158,5) Peralta Wasteway at Rio	River is reduced to isolated pools over a to Peralta Main Wasteway (RM 152.5), of river drying". Aside from this segmen Top of river drying	a 6,0-mile segment extendir This includes 0,8 miles of ' t, the flow in the main river -0,00 (0 - 0)	ig south from a point new drying' at the 'to channel is continuous Visual	p of river dryi s in the Isleta	ng' Since Reach.			of river rewet at the
3	5:15 5:17	upstream of Los Chavez Wasteway (RM 158.5) Peralta Wasteway at Rio Grande (RM 152.5) Rio Grande at Peralta	River is reduced to isolated pools over a to Peralta Main Wasteway (RM 152.5). of river drying". Aside from this segment Top of river drying  Irrigation discharge to river  Bottom of river drying. Since yesterday, 0.4 miles of river rewet at the "bottom of river"	a 6,0-mile segment extendir This includes 0,8 miles of 't, the flow in the main river 0,00 (0 - 0)	g south from a point new drying at the "to channel is continuous Visual	p of river dryi s in the Isleta	ng' Since Reach.	yesterday,	0.4 miles c	None
2	5:15 5:17 6:52	upstream of Los Chavez Wasteway (RM 158.5) Peralta Wasteway at Rio Grande (RM 152.5) Rio Grande at Peralta Wasteway (RM 152.5)	River is reduced to isolated pools over a to Peralta Main Wasteway (RM 152.5). of river drying". Aside from this segment a control of river drying.  Top of river drying. Irrigation discharge to river.  Bottom of river drying. Since yesterday, 0.4 miles of river rewet at the "bottom of river drying".  Irrigation discharge to river.	6.0-mile segment extendir This includes 0.6 miles of this includes 0.6 miles of the flow in the main river 0.00 (0 - 0) 4.00 (0 - 0) 4.00 (0 - 0)	ig south from a point inew drying at the "to channel is continuous Visual Visual	p of river dryi s in the Isleta	ng' Since Reach.	yesterday,	0.4 miles c	None None

Isle	slet	ta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date Ti	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

19-Jul-2012 General Comments: The river is dry or reduced to isolated pools over a 6.3 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 6.39-mile segment extending south from a point approximately 1.5 miles upstream of Los Chavez Wasteway (RM 158.3) to a point 0.5 miles downstream of Peralta Main Wasteway (RM 151.91). This includes 0.2 miles of river rewelting at the top of drying and 0.19 miles of rivew drying at the bottom of drying. Aside from this segment, the flow in the main river channel is continuous in the Isleta Reach.

7:30	Rio Grande at Los Lunas (RM 161.4)	Continuous flow	12.50 (10 - 15)	Visual	-	-		7	None	
5:05	Rio Grande 1.5 miles upstream of Los Chavez Wasteway (RM 158,3)	Top of river drying	0.00 (0 - 0)	Visual	3848338	341347	-	-	None	
5:09	Peralta Wasteway at Rio Grande (RM 152.5)	Imgation discharge	0.00 (0 - 0)	Visual	-		-	-	None	
7:10	Peralta Wasteway at Rio Grande (RM 152.5)	Irrigation discharge	0,00 (0 - 0)	Visual	-	-	=	-	None	
6:55	Rio Grande 0.5 miles downstream of Peralta Wasteway (RM 151.91)	Bottom of river drying. Since yesterday, 0.59 miles of river dried at the "bottom of river drying", of which 0.19 represents "new drying."	0.00 (0 - 0)	Visual	-	3	3839324	340343	None	

Isle	eta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying G (UTM NAD 1		
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

20-Jul-2012 General Comments: The river is dry or reduced to isolated pools over a 10.9 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 7.0-mile segment in the vicinity of Peralta-Los Chaves wasteways, extending south from a point approximately 1.89 miles upstream of Los Chavez Wasteway (RM 158.7) to a point 0.67 miles downstream of Peralta Main Wasteway (RM 151.7). This includes 0.4 miles of "new drying" at the top of drying and 0.21 miles of "new drying" at the bottom of drying.

daying at the top of drying and 0.21 miles of new daying at the top of drying.

A second segment of river is reduced to isolated pools between Hwy 346 and Hwy 60. Top of drying in this segment is 3.46 miles downstream of Hwy 346 (RM 137.2). Bottom of drying in this segment is 2.54 miles upstream of Hwy 60 (RM 133.3). Total dry river in this segment is 3.9 miles. This entire segment is new drying.

Total river dry in the Isleta Reach, including the two dry segments, is 10.9 miles.

Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach.

	Rio Grande 1,89 miles upstream of Los Chavez Wasteway (RM 158,7)	Top of river drying	0.00 (0 - 0)	Visual	3848869	341371	***	-	None
6:30	Rio Grande 0.67 miles downstream of Peralta Wasteway (RM 151.7)	Bottom of river drying	0,00 (0 - 0)	Visual	-	-	3839000	340344	None
7:16	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	6.00 (5 - 7)	Visual		-	-	-	None
7:50	Rio Grande 3.46 miles downstream of Hwy 346 (RM 137.2)	Top of river drying	0.00 (0 - 0)	Visual	3819840	335471	_	_	None
	Rio Grande 2,54 miles upstream of Hwy 60 (RM 133.3)	Bottom of river drying	0.00 (0 - 0)	Visual	-	-	3814012	334717	None
9:42	Rio Grande at Hwy 60 (RM 130.56)	Continuous flow	6,00 (5 - 7)	Visual	-	$\sim$	1-1	9	None
	6:30 7:16 7:50 8:11	upstream of Los Chavez Wasteway (RM 158,7)  6:30 Rio Grande 0,67 miles downstream of Peralta Wasteway (RM 151.7)  7:16 Rio Grande at Hwy 346 (RM 140,8)  7:50 Rio Grande 3,48 miles downstream of Hwy 346 (RM 137.2)  8:11 Rio Grande 2,54 miles upstream of Hwy 60 (RM 133.3)  9:42 Rio Grande at Hwy 60 (RM	upstream of Los Chavez Wasteway (RM 158.7)  6:30 Rio Grande 0.67 miles downstream of Peralta Wasteway (RM 151.7)  7:16 Rio Grande at Hwy 346 (RM 140.8)  7:50 Rio Grande 3.46 miles downstream of Hwy 346 (RM 137.2)  8:11 Rio Grande 2.54 miles upstream of Hwy 60 (RM 133.3)  9:42 Rio Grande at Hwy 60 (RM  Continuous flow   upstream of Los Chavez Wasteway (RM 158,7)  6:30 Rio Grande 0.67 miles downstream of Peralta Wasteway (RM 151.7)  7:16 Rio Grande at Hwy 346 (RM 140.8)  7:50 Rio Grande 3.46 miles downstream of Hwy 346 (RM 137.2)  8:11 Rio Grande 2,54 miles upstream of Hwy 60 (RM 133.3)  9:42 Rio Grande at Hwy 60 (RM Continuous flow 6.00 (5 - 7)	upstream of Los Chavez Wasteway (RM 158,7)  6:30 Rio Grande 0,67 miles downstream of Peralta Wasteway (RM 151.7)  7:16 Rio Grande at Hwy 346 (RM 140,8)  7:50 Rio Grande 3,46 miles downstream of Hwy 346 (RM 137.2)  8:11 Rio Grande 2,54 miles upstream of Hwy 60 (RM 133.3)  9:42 Rio Grande at Hwy 60 (RM Continuous flow  6,00 (0 - 0)  Visual  0,00 (0 - 0)  Visual  Visual  Visual	Upstream of Los Chavez   Wasteway (RM 158,7)	Upstream of Los Chavez   Wasteway (RM 158.7)	Upstream of Los Chavez   Wasteway (RM 158,7)	upstream of Los Chavez Wasteway (RM 158.7)  6:30 Rio Grande 0.67 miles downstream of Peralta Wasteway (RM 151.7)  7:16 Rio Grande at Hwy 346 (RM 140.8)  7:50 Rio Grande 3.46 miles downstream of Hwy 346 (RM 137.2)  8:11 Rio Grande 2.54 miles upstream of Hwy 60 (RM 133.3)  9:42 Rio Grande at Hwy 60 (RM Continuous flow  6.00 (5 - 7)  Visual  - 3839000 340344  - 4000 (5 - 7)  Visual	

Isleta Reach			Estimated Flow (cfs)	Flow Estimate	River Drying G (UTM NAD 1		
Date Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

21-Jul-2012 General Comments: The river is dry or reduced to isolated pools over a 10.5 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 7.5-mile segment in the vicinity of Peralta-Los Chaves wasteways, extending south from a point approximately 2.3 miles upstream of Los Chavez Wasteway (RM 159.3) to a point 0.67 miles downstream of Peralta Main Wasteway (RM 151.7). This includes 0.5 mil. of "new" drying. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.2 miles downstream of Hwy 346 (RM 136.). Bottom of drying in this segment is 2.54 miles upstream of US 60 (RM 133.3). Total dry river in this segment is 3.0 miles, which includes 0.9 miles of rewetting.

Total river dry in the Isleta Reach, including the two dry segments, is 10,5 miles. Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach.

6 45	Rio Grande 2.3 miles upstream of Los Chavez Wasteway (RM 159.2)	Top of river drying	0.00 (0 - 0)	Visual	3849716	341530	-	-	None	
8:00	Rio Grande 0.67 miles downstream of Peralta Wasteway (RM 151.7)	Bottom of river drying	0.00 (0 - 0)	Visual	4	~	3839000	340344	None	
10:30	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	7,60 (7,6 - 7,6)	Visual	-	) minutes	-	-	Observation confirms USGS posting on internet	
9:00	Rio Grande 4.44 miles downstream of Hwy 346 (RM 136,3)	Top of river drying	0.00 (0 - 0)	Visual	3818384	335017	~	=	None	
10:30	Río Grande 2.54 miles upstream of Hwy 60 (RM 133.3)	Bottom of river drying	0.00 (0 - 0)	Visual	-	-	3814012	334717	None	
11:00	Rio Grande at US 60 (RM 130.56)	Continuous flow	6.00 (5 - 7.)	Visual	-	-	-	-	None	

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate		6IS Coordinates 983, Zone 13)	
Date	Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

22-Jul-2012 General Comments: The river is dry or reduced to isolated pools over a 15.65 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 10.9-mile segment in the vicinity of Peralta-Los Lunas Bridge, extending south from a point approximately 0.74 miles upstream of Los Lunas Bridge (RM 162.2) to a point 1.15 miles downstream of Peralta Main Wasteway (RM 151.25). This includes 3.29 miles of 'new' drying. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.73 miles downstream of Hwy 346 (RM 138.0). Bottom of drying in this segment is 2.54 miles upstream of US 60 (RM 133.3). Total dry river in this segment is 4.7 miles, which includes 1.7 miles of 'new' drying.

Total river dry in the Isleta Reach, including the two dry segments, is 15.65 miles.

Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach.

6:30	Rio Grande 0.74 miles upstream of Los Lunas Bridge (RM 162,2)	Top of river drying, including 3.0 miles of "new drying"	0.00 (0 - 0)	Visual	3853728	343489	-	-	None
8:30	Rio Grande 1,15 miles downstream of Peralta Wasteway (RM 151,25)	Bottom of river drying, including 0,29 miles of "new drying"	0.00 (0 - 0)	Visual	~	~	3838299	340198	None
7:00	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	6.60 (6.6 - 6.6)	Visual	-	-	$\approx$	-	Observation confirms USGS internet posting of flow
10:30	Rio Grande 2.73 miles downstream of Hwy 346 (RM 138)	Top of over drying, including 1.7 mi. of "new" drying since yesterday.	0.00 (0 - 0)	Visual	3820976	335314	-	-	None
13:00	Rio Grande 2,54 miles upstream of Hwy 60 (RM 133,3)	Bottom of river drying.	0.00 (0 - 0)	Visual	-	-	3814012	334717	None
14:00	Rio Grande at US 60 (RM 130.6)	Continuous flow	3.50 (2 - 5)	Visual	-	-	$\simeq$	-	None

Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate		SIS Coordinates 983, Zone 13)	
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

23-Jul-2012 General Comments: The river is dry or reduced to isolated pools over a 15.35 mile segment in the Isleta Reach.

River is reduced to isolated pools over an 11,2-mile segment in the vicinity of Peralta-Los Lunas Bridge, extending south from a point approximately 0.95 miles upstream of Los Lunas Bridge (RM 162.5) to a point 1.15-miles downstream of Peralta Main Wasteway (RM 151.25). This includes 0.3 mi. of "new" drying. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.38 miles downstream of Hwy 346. Bottom of drying in this segment is 2.54 miles upstream of US 60. Total dry river in this segment is 4.1 miles. This includes 0.1 miles of "new drying" since yesterday.

Total river dry in the Isleta Reach, including the two dry segments, is 15.35 miles.

Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reac

5.30	Rio Grande 0.95 miles upstream of Los Lunas Bridge (RM 162.5)	Top of drying, including 0.3 mi. of "new drying" since yesterday.	0.00 (0 - 0)	Visual	3854112	343470	-	-	None
6:40	Rio Grande 1,15 miles downstream of Peralta Wasteway (RM 151,25)	Bottom of river drying	0.00 (0 - 0)	Visual	~	~	3838299	340198	None
7:15	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	11.00 (11 - 11)	Visual		-	=	-	Observation confirms USGS internet posting of flow
7:50	Rto Grande 3.38 miles downstream of Hwy 346 (RM 137.4)	Top of river drying, including 0.1 miles of "new drying" since yesterday.	0.00 (0 - 0)	Visual	3818984	335462	-	-	None
8:25	Rio Grande 2,54 miles upstream of Hwy 60 (RM 133,3)	Bottom of river drying	0.00 (0 - 0)	Visual	-	-	3814012	334717	None

Isleta Reach			Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date Ti	ime Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

24-Jul-2012 General Comments: The river is dry or reduced to isolated pools over a 15.6 mile segment in the Isleta Reach.

River is reduced to isolated pools over an 11.1-mile segment in the vicinity of Peralta-Los Lunas Bridge, extending south from a point approximately 0.94 miles upstream of Los Lunas Bridge (RM 162.4) to a point 1.15 miles downstream of Peralta Main Wasteway (RM 151.25). Some 0.1 miles of river rewet since vesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3,17 miles downstream of Hwy 346. Bottom of drying in this segment is 2,3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 4.5 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 15.8 miles,

Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach

d	5:21	Rio Grande 0.94 miles upstream of Los Lunas Bridge (RM 162.4)	Top of river drying, along with 0.1 miles of river rewet since yesterday	0.00 (0 - 0)	Visual	3854094	343490	-	-	None
	3:10	Peralta Wasteway at the Rio Grande (RM 152.5)	Irrigation discharge to river	0.00 (0 - 0)	Visual	~	~	-	~	None
- 19	5:23	Rio Grande 1.15 miles downstream of Peralta Wasteway (RM 151.25)	Bottom of river drying	0.00 (0 - 0)	Visual	**	-	3838294	340196	None
1	7:07	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	5,00 (5 - 5)	Visual	-	-	-	=	None
7	7:32	Rio Grande 3.17 miles downstream of Hwy 346 (RM 137.5)	Top of river drying	0.00 (0 - 0)	Visual	3820291	335481	-	-	None
7	7.58	Rio Grande 2.3 miles upstream of Hwy 60 (RM 133)	Boltom of river drying	0.00 (0 - 0)	Visual	-	-	3813571	334416	None
4	3:45	Rio Grande at Hwy 60 (RM 130.5)	Continuous flow	4.00 (3 - 5)	Visual	-	-		-	None
4	9:00	Rio Grande 1.0 mile downstream of Hwy 60 (RM 129.5)	Continuous flow	6,00 (5 = 7)	Visual		-	~		None

Isle	eta Reach		Estimated Flow (cfs)	Flow Estimate		SIS Coordinates 983, Zone 13)	
Date Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

25-Jul-2012 General Comments: The river is dry or reduced to isolated pools over a 14.9 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 9.9-mile segment in the vicinity of Peralta-Los Lunas Bridge, extending south from a point approximately 0.94 miles upstream of Los Lunas Bridge (RM 162.4) to Peralta Main Wasteway (RM 152.5). Some 1.2 miles of river rewet downstream of Peralta Wasteway More rewetting of this segment is anticipated today.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2,73 miles downstream of Hwy 346 (RM 138.0). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 5.0 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 14.9 miles.

Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach

:5:24	Rio Grande 0.94 miles upstream of Los Lunas Bridge (RM 162.4)	Top of river drying	0.00 (0 - 0)	Visual	3854094	343490	-	-	None
5:51	Peralta Wasteway at the Rio Grande (RM 152.5)	Wasteway discharge to river	37.50 (35 - 40)	Visual	4	~	-	-	None
5:55	Rio Grande at Peralta Wasteway (RM 152.5)	Bottom of river drying	0.00 (0 - 0)	Visual	-	-	3840149	340126	None
6.15	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	4.00 (3 - 5)	Visual	-	$\sim$	-	-	None
6:46	Rio Grande 2.73 miles downstream of Hwy 346 (RM 138)	Top of river drying	0.00 (0 - 0)	Visual	3820993	335302	~	-	None
7:09	Rio Grande 2.3 miles upstream of Hwy 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	-	-	3813571	334416	None
8:20	Rio Grande at Hwy 60 (RM 130.5)	Continuous flow	4.00 (3 - 5)	Visual	+	-	+5	12	None

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate			S Coordin 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
6-Jul-20	112	General Comments: The	river is dry or reduced to isolated po	ols over a 3.95 mile segme	ent in the Isleta Reach	í,				
		yesi A se Bott 3.95 Tots	9.9-mile segment from a point appropriate yewer overnight. gement of river is reduced to isolated om of drying in this segment is 2.3 m miles. It river by in the Isleta Reach, include the from this segment, the flow in the form this segment.	pools between Hwy 346 a hiles upstream of US 60 (R ing the two dry segments,	nd US 60. Top of dry M 133,0). Some 1.07 is 3.95 miles.	ing in this se miles of rive	gment is 3.	74 miles do	wnstream	of Hwy 346 (RM 136.9
	5.10	Rio Grande 0.25 miles upstream of Peralta Wasteway (RM 152.75)	Continuous flow	40 00 (35 - 45)	Visual	-	_	_	-	None
	4:40	Peralta Wasteway at the Rio Grande (RM 152.5)	Irrigation discharge to the river	8.50 (7 - 10)	Visual	4	~	4	~	None
	6:03	Rio Grande 3,74 miles downstream of Hwy 346 (RM 136,95)	Top of river drying	0.00 (0 - 0)	Visual	3819360	335481	-	-	None
	6:55	Rio Grande 2.3 miles upstream of Hwy 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	44	~	3813571	334416	None
	7:20	Rio Grande at Hwy 60 (RM 130.5)	Continuous flow	4.00 (3 - 5)	Visual	-	-	-	-	None
7-Jul-20	112	Rive	river is dry or reduced to isolated po er is reduced to isolated pools over a tream of US 60 (RM 133.0). There w tinuous in the Isleta Reach	2.75-mile segment extend	ing south from a point	4.94 miles d				
	6:00	Rio Grande 4.94 miles downstream of Hwy 346 (RM 135.75)	Top of river drying. Some 1.2 miles of river rewet since yesterday.	0.00 (0 - 0)	Visual	3817621	334774	-		None
	6:15	Rio Grande 2.3 miles upstream of Hwy 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	-	-	3813571	334416	None
	6:47	Rio Grande at Hwy 60 (RM	Continuous flow	4 00 (3 - 5)	Visual	-	-	-	-	None

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate		983, Zone 13)	
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

28-Jul-2012 General Comments: The river is dry or reduced to isolated pools over a 2 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 2.0-mile segment extending south from a point 5.6 miles downstream of Hwy 346 (RM 135) to a point 2.3 miles upstream of US 60 (RM 133.0). There is 0.75 miles of river that rewet since yesterday. Aside from this segment, the flow in the main river channel is continuous in the Isleta Reach.

25	5:50	Service of Communities									
		Rio Grande at Los Lunas Bridge (RM 161.4)	Continuous flow	60.00 (50 - 70)	Visual	-	-	-	_	None	
6	:40	Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	17.50 (15 - 20)	Visual	=	-	-	~	None	
7	:05	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	17.50 (15 - 20)	Visual	-	-	8	-	None	
7	30	Rio Grande 5.6 miles downstream of Hwy 346 (RM 135)	Top of river drying	0.00 (0 - 0)	Visual	3816564	334416	#	-	None	
8	3:15	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	-	~	3813571	334416	None	
9	9:30	Rio Grande at US 60 (RM 130,5)	Continuous flow	4.00 (3 - 5)	Visual	-	-	-		None	

	Isle	a Reach		Estimated Flow (cfs)	Flow Estimate		6IS Coordinates 983, Zone 13)	
Date	Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

29-Jul-2012 General Comments: The river is dry or reduced to isolated pools over a 12.8 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 10.8-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 1.9 miles upstream of Los Lunas Bridge (RM 163.3) to the confluence of Peralta Main Wasteway (RM 152.5). Some 0.8 miles of river is considered "new" drying. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 5.6 miles downstream of Hwy 346 (RM 135.0). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). In this segment, there is 2.0 miles of dry river. Total number of miles of discontinuous flow within the Isleta Reach, including the two dry segments. Is 12.8 miles.

Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach.

6:20	Rio Grande 1.9 miles upstream of Los Lunas Bridge (RM 163.3)	Top of river drying	0.00 (0 - 0)	Visual	3855536	343128	-	-	None	
7:45	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying	0.00 (0-0)	Visual	-	-	3840138	340117	None	
7:50	Peralta Main Wasteway (RM 152.5)	Imigation discharge	10,00 (10 - 10)	Visual	-	-	-	=	None	
8:30	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	12.50 (10 - 15)	Visual	-	-	-	~	None	
9:45	Rio Grande 5.6 miles downstream of Hwy 346 (RM 135)	Top of river drying	0.00 (0 - 0)	Visual	3816564	334381	-		None	
9:20	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	-	-	3813571	334416	None	
10:00	Rio Grande at US 60 (RM 130.5)	Continuous flow	3.00 (2 - 4)	Visual	440	>==	44		None	

Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate		SIS Coordinates 983, Zone 13)	
Date Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

30-Jul-2012 General Comments: The river is dry or reduced to isolated pools over a 14,06 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 12.06-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 3.19 miles upstream of Los Lunas Bridge (RM 164.56) to the confluence of Peralta Main Wasteway (RM 152.5). Some 1.26 miles of river is considered "new" drying in this segment of river.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 5.6 miles downstream of Hwy 346 (RM 135.0). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). In this segment, there is 2.0 miles of dry river.

Total number of miles of discontinuous flow within the Isleta Reach, including the two dry segments, is 14,06 miles.

Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach

5 20	Rio Grande 3.19 miles upstream of Los Lunas Bridge (RM 164,56)	Top of river drying. There has been 1.26 miles of "new drying" since yesterday.	0.00 (0 - 0)	Visual	3857574	343079	-	-	None
6;20	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying	0.00 (0 - 0)	Visual	4	~	3840138	340117	None
	Rio Grande 5.6 miles downstream of Hwy 346 (RM 135)	Top of river drying	0.00 (0 - 0)	Visual	3816564	334381	-	-	None
7:30	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	100	~	3813571	334416	None

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate		983, Zone 13)	
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

31-Jul-2012 General Comments: The river is dry or reduced to isolated pools over a 11.8 mile segment in the Isleta Reach.

River is reduced to isolated pools over an 11.8-mile segment in the vicinity of Isleta Diversion-Belen (RM 164.3) to the confluence of Peralta Main Wasteway (RM 152.5). Some 0.3 miles of river rewet in this segment of river since yesterday. A second segment of river that was reduced to isolated pools yesterday between Hwy 346 and US 60 has rewet. In this segment, 2.0 miles of river has rewet since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

6:40	240 Wasteway at the point where the confluence of WW meets the river. (RM 165.2)	Wasleway discharge	5.00 (5 - 5)	Visual	**	)=0		-	None
6:20	Rio Grande 2,9 miles upstream of Los Lunas Bridge (RM 164.3)	Top of river drying	0.00 (0 - 0)	Visual	3857134	343059	4	-	None
7:28	Peralta Wasteway (RM 152.5)	Irrigation discharge	10.00 (10 - 10)	Visual	-	-			None
7:30	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying	0,00 (0 - 0)	Visual	-	-	3840138	340117	None
7:45	LP1 Wasteway (RM 150)	Irrigation discharge	0.00 (0 - 0)	Visual	1945	200	3-6	-	None
3;00	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	36.00 (36 - 36)	Visual		-	-		Observation confirms USGS internet posting
3.46	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Continuous flow	NA	Not available/applicable	-	-	-	$\rightarrow$	None
3 25	Rio Grande at US 60 (RM 130.6)	Continuous flow	25,00 (20 - 30)	Visual	-		=		None

	Islet	a Reach		Estimated Flow (cfs)	Flow Estimate		elS Coordinates 983, Zone 13)	
Date 1	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

01-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 13,13 mile segment in the Isleta Reach.

River is reduced to isolated pools over an 12.43-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 3.16 miles upstream of Los Lunas Bridge (RM 164.53) to a point 0.4 miles downstream of the river's confluence with the Peralta Main Wasteway (RM 152.1). This segment has gone dry earlier this year.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3,58 miles upstream of Hwy 60 (RM 134.3). Bottom of drying in this segment is 3.0 miles upstream of US 60 (RM 133.6). Total dry river in this segment is 0.7 miles. This segment has gone dry

Total river dry in the Isleta Reach, including the two dry segments, is 13.13 miles. Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach

5:15	TOTAL CHICAGO AND								
3.13	Rio Grande 3.16 miles upstream of Los Lunas Bridge (RM 164.53)	Top of river drying	0.00 (0 - 0)	Visual	3857542	343030	~		None
6:30	Rio Grande 0.4 miles downstream of Peralla Main Wasteway (RM 152.1)	Bottom of river drying	0,00 (0 - 0)	Visual	-	-	3839583	340359	None
6:45	Peralta Main Wasteway (RM 152.1)	Irrigation discharge	0.00 (0 - 0)	Visual	140	~	-		None
7:00	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	10.00 (8 - 12)	Visual	_	_	-	-	None
7:30	Rio Grande at Veguita (RM 137.9)	Continuous flow	6,00 (5 - 7)	Visual	-	-	-	-	None
8:25	Rio Grande 3.58 miles upstream of US 60 (RM 134.3)	Top of river drying	0.00 (0 - 0)	Visual	3815477	334396	-	-	None
8:46	Rio Grande 3.0 miles upstream of US 60 (RM 133.6)	Bottom of river drying	0.00 (0 - 0)	Visual	-	-	3814469	334863	None
7:45	Rio Grande at US 60 (RM 130.6)	Continuous flow	8.50 (7 = 10)	Visual	-		=	~	None
7	:30 :25	140.8) 30 Rio Grande at Veguita (RM 137.9) 325 Rio Grande 3.58 miles upstream of US 60 (RM 134.3) 346 Rio Grande 3.0 miles upstream of US 60 (RM 133.5) 345 Rio Grande at US 60 (RM	140.8)  30 Rio Grande at Veguita (RM 137.9)  32 Rio Grande 3.58 miles upstream of US 60 (RM 134.3)  346 Rio Grande 3.0 miles upstream of US 60 (RM 133.6)  347 Rio Grande at US 60 (RM 133.6)  348 Rio Grande at US 60 (RM Continuous flow	140.8)  30 Rio Grande at Veguita (RM Continuous flow 137.9)  32 Rio Grande 3.58 miles Top of river drying 0.00 (0 - 0)  33 Rio Grande 3.58 miles Top of river drying 0.00 (0 - 0)  34 Rio Grande 3.0 miles Upstream of US 60 (RM 133.6)  35 Rio Grande at US 60 (RM 133.6)  36 Rio Grande at US 60 (RM Continuous flow 8.50 (7 = 10)	140.8)  30 Rio Grande at Veguita (RM Continuous flow 8.00 (5 - 7) Visual 137.9)  32 Rio Grande 3.58 miles Top of river drying 0.00 (0 - 0) Visual 139 (46 Rio Grande 3.0 miles Upstream of US 60 (RM 133.6)  34 Rio Grande 4.0 Miles Upstream of US 60 (RM 133.6)  35 Rio Grande 5.0 miles Upstream of US 60 (RM 133.6)  36 Rio Grande 5.0 miles Upstream of US 60 (RM 133.6)  37 Rio Grande 5.0 miles Upstream of US 60 (RM 133.6)	140.8)  30 Rio Grande at Veguita (RM Continuous flow B.00 (5 - 7) Visual — 137.9)  32 Rio Grande 3.58 miles Top of niver drying Upstream of US 60 (RM 134.3)  346 Rio Grande 3.0 miles Upstream of US 60 (RM 133.6)  345 Rio Grande at US 60 (RM Continuous flow B.50 (7 = 10) Visual — 145 Rio Grande at US 60 (RM Continuous flow B.50 (7 = 10) Visual — 145 Rio Grande at US 60 (RM Continuous flow B.50 (7 = 10) Visual — 145 Rio Grande at US 60 (RM Continuous flow B.50 (7 = 10) Visual — 145 Rio Grande at US 60 (RM Continuous flow B.50 (7 = 10) Visual — 145 Rio Grande at US 60 (RM Continuous flow B.50 (7 = 10) Visual — 145 Rio Grande at US 60 (RM Continuous flow B.50 (7 = 10) Visual — 145 Rio Grande at US 60 (RM Continuous flow B.50 (7 = 10) Visual — 145 Rio Grande at US 60 (RM Continuous flow B.50 (7 = 10) Visual — 145 Rio Grande at US 60 (RM Continuous flow B.50 (7 = 10) Visual — 145 Rio Grande at US 60 (RM Continuous flow B.50 (7 = 10) Visual — 145 Rio Grande at US 60 (RM Continuous flow B.50 (7 = 10) Visual — 145 Rio Grande at US 60 (RM Continuous flow B.50 (7 = 10) Visual — 145 Rio Grande at US 60 (RM Continuous flow B.50 (7 = 10) Visual — 145 Rio Grande at US 60 (RM Continuous flow B.50 (7 = 10) Visual — 145 Rio Grande at US 60 (RM Continuous flow B.50 (7 = 10) Visual — 145 Rio Grande at US 60 (RM Continuous flow B.50 (7 = 10) Visual — 145 Rio Grande at US 60 (RM Continuous flow B.50 (7 = 10) Visual — 145 Rio Grande at US 60 (RM Continuous flow B.50 (RM	140.8)  30 Rio Grande at Veguita (RM Continuous flow 137.9)  31 Rio Grande at Veguita (RM Continuous flow 137.9)  32 Rio Grande 3.58 miles Top of niver drying 0.00 (0 - 0)  33 St5477 334396 (246 Rio Grande 3.0 miles Upstream of US 60 (RM 134.3)  34 Rio Grande 3.0 miles Upstream of US 60 (RM 133.5)  35 Rio Grande 3.0 miles Upstream of US 60 (RM 133.5)  36 Rio Grande at US 60 (RM Continuous flow 8.50 (7 = 10)  38 St5477 334396 (145 Rio Grande at US 60 (RM Continuous flow 8.50 (7 = 10)	140.8)  30 Rio Grande at Veguita (RM Continuous flow 6.00 (5 - 7) Visual — — — — — — — — — — — — — — — — — — —	140.8)  30 Rio Grande at Veguita (RM Continuous flow 6,00 (5 - 7) Visual — — — — — — — — — — — — — — — — — — —

Isl	eta Reach		Estimated Flow (cfs)	Flow Estimate		GIS Coordinates 983, Zone 13)	
Date Tim	e Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

02-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 19.35 mile segment in the Isleta Reach.

River is reduced to isolated pools over an 14,9-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5,2 miles upstream of Los Lunas Bridge (RM 166.7) to a point 0.7 miles downstream of the river's confluence with the Peralta Main Wasteway (RM 151.7). There has been 2.7 miles of drying since yesterday. Of this drying, 2.1 miles represents "new drying".

A second segment of river is reduced to isolated pools between Hwy 346 (RM 137.05). Bottom of drying in this segment is 3.63 miles downstream of Hwy 346 (RM 137.05). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 4.05 miles. This segment has gone dry

Total river dry in the Isleta Reach, including the two dry segments, is 19.35 miles.

Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach.

520	Rio Grande 5,2 miles upstream of Los Lunas Bridge (RM 166.7)	Top of river drying. There has been 2.3 miles of drying since yesterday. Of this drying, 2.1 miles is "new drying."	0.00 (0 - 0)	Visual	3860736	343046	~	-	None	
6:45	Peralta Main Wasteway (RM 152.5)	Imgation discharge to river	0.00 (0 - 0)	Visual	-	~	-	2	None	
6:50	Rio Grande 0.7 miles downstream of Peralia Main Wasteway (RM 151.7)	Bottom of river drying. There has been 0.4 miles of drying since yesterday. This segment dried earlier this year.	0.00 (0 - 0)	Visual	-	~	3839005	340343	None	
7:30	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	6,00 (5 - 7)	Visual	=	-	~	9	None	
7:45	Rio Grande et Veguita (RM 137.9)	Continuous flow	2.50 (2 - 3)	Visual	-	-	$\sim$	-	None	
8:25	Rio Grande 3,63 miles downstream of Hwy 346 (RM 137,05)	Top of river drying. This portion of the river dried earlier this year.	0.00 (0 - 0)	Visual	3819500	335449	-	_	None	
8:45	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying. This segment has dried previously this year	0.00 (0 - 0)	Visual	-	-	3813566	334405	None	
9.40	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	4.00 (3 - 5)	Visual	-	-	-	-	None	

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate		SIS Coordinates 983, Zone 13)	
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

03-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 20.55 mile segment in the Isleta Reach.

River is reduced to isolated pools over an 15.9-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.6 miles upstream of Los Lunas Bridge (RM 167.1) to a point 1.2 miles downstream of the river's confluence with the Peralta Main Wasteway (RM 151.2). There has been 1.0 miles of drying since vesterday. Of this drying. 0.4 miles represents "new drying"

been 1.0 miles of drying since yesterday. Of this drying, 0.4 miles represents "new drying"

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.03 miles downstream of Hwy 346 (RM 137.65). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 4.65 miles. This segment has gone drying in this vegr.

Total river dry in the Isleta Reach, including the two dry segments, is 20.55 miles.

Aside from these two segments, the flow in the main river channel is continuous in the isleta Reach

4:25	Rio Grande 5.6 miles upstream of Los Lunas Bridge (RM 167.1)	Top of river drying. There has been 0.4 miles of drying since yesterday, all of which represents "new drying".	0.00 (0 - 0)	Visual	3861140	343545	~	-	None
5:30	Peralta Main Wasteway (RM 151.2)	Imgation wasteway	0.00 (0 - 0)	Visual	-	~	-	~	None
5:50	Rio Grande 1.2 miles downstream of Peralla Main Wasteway (RM 151.2)	Bottom of river drying. There has been 0.6 miles of drying since yesterday. This segment dried earlier this year.	0.00 (0 - 0)	Visual	in the same of the	~	3838286	340189	None
8:15	Rio Grande at Hwy 309 (Belen) (RM 149.5)	Continuous flow	3,50 (3 - 4)	Visual	-	-	-	4	None
6:30	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	6.00 (5 - 7)	Visual	-	-	-	_	None
7:00	Rio Grande at Veguita (RM 137.9)	Continuous flow	1.00 (1-1)	Visual	-	-	~	-	None
7:04	Rio Grande 3,03 miles downstream of Hwy 346 (RM 137,65)	Top of river drying. There has been 0.6 miles of drying since yesterday. This segment has dried previously this year.	0.00 (0 - 0)	Visual	3820487	335466	-	3	None
7:20	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying. This segment has dried previously this year.	0.00 (0 - 0)	Visual	=	-	3813565	334405	None
7:50	Rio Grande at US 60 (RM 130.6)	Continuous flow	4.00 (3 - 5)	Visual	-	-	~	-	None

Isle	ta Reach			SIS Coordinates 983, Zone 13)	Comments
Date Time	Location* Observation Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	

04-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 20.95 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 15.65-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.45 miles upstream of Los Lunas Bridge (RM 166.85) to a point 1.2 miles downstream of the river's confluence with the Peralta Main Wasteway (RM 151.2). There has been 0.25 miles of river rewetting since yesterday at 04:25 hrs.

A second segment of river is reduced to isolated pools between Hwy 346 and US 50. Top of drying in this segment is 2,38 miles downstream of Hwy 346 (RM 138.3). Bottom of drying in this segment is 2,3 miles upstream of US 60 (RM 133.0). There has been 0.65 miles of drying since yesterday. Total dry river in this segment is 5,3 miles. This segment has gone dry earlier this year.

segment is 5.3 miles. This segment has gone dry earlier this year.

Total river dry in the Isleta Reach, including the two dry segments, is 20.95 miles. There has been a total of 0.9 miles of river that has rewet since yesterday. Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach.

5:15	Rio Grande 5.45 miles upstream of Los Lunas Bridge (RM 166.85)	Top of river drying. There has been 0.25 miles of river rewetting since yesterday at 04:25 hrs.	0.00 (0 - 0)	Visual	3860979	343387	~		None
6:35	Rio Grande 1.2 miles downstream of Peralla Main Wasteway (RM 151.2)	Bottom of river drying	0.00 (0 = 0)	Visual	-	~	3838286	340189	None
7:30	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	6.00 (5 - 7)	Visual	-	-	=	-	None
8:10	Rio Grande 2,38 miles downstream of Hwy 346 (RM 138.3)	Top of river drying. There has been 0.65 miles of drying since yesterday.	0.00 (0 - 0)	Visual	3821435	335335	-	9	None
9:00	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying.	0.00 (0 - 0)	Visual	-	-	3813565	334405	None

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying GIS Coordinates (UTM NAD 1983, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

05-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 20.1 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 15.2-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.45 miles upstream of Los Lunas Bridge (RM 166.85) to a point 0.85 miles downstream of the river's confluence with the Peralta Main Wasteway (RM 151.65). There has been 0.45 miles of rewetting at the bottom of drying since vesterday.

been 0.45 miles of rewetting at the bottom of drying since yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.73 miles downstream of Hwy 346 (RM 137.9). Bottom of drying in this segment is 4.9 miles. This segment has gone dry earlier this year.

Total river dry in the Isleta Reach, including the two dry segments, is 20.1 miles. There has been a total of 0.8 miles of river that has rewet since yesterday. Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach.

6:30	Rio Grande 5.45 miles upstream of Los Lunas Bridge (RM 166.85)	Top of river drying.	0.00 (0 - 0)	Visual	3860979	343387	~	-	None	
7:30	Peralta Main Wasleway (RM 152.5)	Imigation discharge	0,00 (0 - 0)	Visual	-	-	=	-	None	
8:00	Rio Grande 0.85 miles downstream of Peraita Main Wasteway (RM 151.65)	Bottom of river drying. There has been 0.45 miles of river rewelting since yesterday.	0,00 (0 - 0)	Visual			3838992	340354	None	
8:45	LP1 Drain (RM 150)	Irrigation discharge	12.50 (10 - 15)	Visual	_		-		None	
11:45	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	17,50 (15 - 20)	Visual	-	-	-	-	None	
9:20	Rio Grande at Abo Arroyo (RM 138,8)	Continuous flow	7,50 (5 - 10)	Visual			-	-	None	
10:15	Rio Grande 2.78 miles downstream of Hwy 346 (RM 137.9)	Top of river drying. There has been 0.35 miles of river rewetting since yesterday.	0.00 (0 - 0)	Visual	3820872	335325	-	-	None	
11:00	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	-	-	3813565	334405	None	
13:30	Rio Puerco at I-25 (RM 126,5)	Estimated flow	0.00 (0 - 0)	Visual	-	-	-	-	None	
8:00	Rio Salado at I-25 (RM 118.5)	Estimated flow	40.00 (40 - 40)	Visual	-	Carl	-	=	None	
13:25	Rio Salado at i-25 (RM 118.5)	Estimated flow	0.00 (0 - 0)	Visual	-	-	-	-	None	

	Isle	ta Reach		Estimated Flow River Drying GIS Co Flow (cfs) Estimate (UTM NAD 1983, Zo		is		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

06-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 18.3 mile segment in the Islate Reach.

River is reduced to isolated pools over a 14,35-mile segment in the victnity of Isleta Diversion-Belen, extending south from a point approximately 5.45 miles upstream of Los Lunas Bridge (RM 166.85) to the river's confluence with the Peralta Main Wasteway (RM 152, 5). There has been 0.85 miles of rewetting at the bottom of drying since yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.81 miles downstream of Hwy 346 (RM 136.90). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 3.95 miles. There has been 1.0 mile of river rewetting since yesterday. This segment has gone dry earlier this year.

Total river dry in the Isleta Reach, including the two dry segments, is 18.3 miles. There has been a total of 1.85 miles of river that has rewet since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

5:00	Rio Grande 5.45 miles upstream of Los Lunas Bridge (RM 166.85)	Top of river drying	0.00 (0 - 0)	Visual	3860979	343387	~	-	None	
6:00	Peralta Main Wasleway (RM 152.5)	Bottom of river drying. There has been 0.85 miles of river rewetting since yesterday.	0,00 (0 - 0)	Visual	=	-	3840149	340126	None	
6:45	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	17.50 (15 - 20)	Visual	-	~	-		None	
7:40	Rio Grande 3,81 miles downstream of Hwy 346 (RM 136.9)	Top of river drying. There has been 1.0 mile of river rewelting since yesterday.	0.00 (0 - 0)	Visual	3819261	335447	-		None	
8:15	Rio Grande 2,3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	-	-	3813565	334405	None	

Isleta Reach		ta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying G (UTM NAD 1		
Date	Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

07-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 18.7 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 14.6-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.6 miles upstream of Los Lunas Bridge (RM 167.1) to the river's confluence with the Peralta Main Wasteway (RM 152.5).

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.55 miles downstream of Hwy 346 (RM 137.1). The river had dried to this point previously this year. Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 4.1 miles. There has been 0.15 miles of river that have dried since yesterday.

Total river dry in the Isleta Reach, including the two dry segments, is 18.7 miles. There has been 0.15 miles of river that have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach

3(51	Rio Grande 5 6 miles upstream of Los Lunas Bridge (RM 167.1)	Top of river drying. River is advancing downstream at rate of 5.0 ft. per minute.	0.00 (0 - 0)	Visual	3861140	343545	-	3	The river had dried to this point previously this year.
4:44	Peralta Main Wasteway (RM 152.5)	Irrigation discharge to river	8,50 (7 - 10)	Visual	-	~	-		None
4:45	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying	0.00 (0 - 0)	Visual	***	-	3840149	340126	None
5.51	Rio Grande 3.55 miles downstream of Hwy 346 (RM 137.1)	Top of river drying. There has been 0,15 miles of river that have dried since yesterday.	0.00 (0-0)	Visual	3819667	335498	÷	=	This segment has dried previously this year
6:10	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0,00 (0 = 0)	Visual	-	-	3813565	334405	None

Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

08-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 19.5 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 14.6-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.6 miles upstream of Los Lunas Bridge (RM 167.1) to the river's confluence with the Peralta Main Wasteway (RM 152. 5).

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.76 miles downstream of Hwy 346 (RM 137.9). The river had dried to this point previously this year. Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 4.9 miles. There has been 0.8 miles of river that have dried since yesterday.

Total river dry in the Isleta Reach, including the two dry segments, is 19,5 miles. There has been 0.8 miles of river that have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

3:52	Rio Grande 5 ß miles upstream of Los Lunas Bridge (RM 167.1)	Top of river drying. River is advancing downstream at rate of 1.0 ft. per minute. The river has dried to this point previously this year.	0.00 (0 - 0)	Visual	3861140	343545		_	None
1:42	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge	8.50 (7 - 10)	Visual	-	-	-	~	None
4:43	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying	0.00 (0 - 0)	Visual	-	~	3840149	340126	None
6:50	Rio Grande at Belen (RM 149.5)	Continuous flow	6.00 (5 - 7)	Visual	_	_	-	_	None
6:35	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	6,00 (5 - 7)	Visual	144	-		-	None
5:40	Rio Grande 2.76 miles downstream of Hwy 346 (RM 137.9)	Top of river drying. There has been 0.8 miles of river that have dried since yesterday. This segment has dried previously this year.	0.00 (0 - 0)	Visual	3820885	335327	-		None
6:00	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	-	-	3813565	334405	None

Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying G (UTM NAD 1		
Date Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

09-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 21.05 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 15.95-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.66 miles upstream of Los Lunas Bridge (RM 167.15) to a point 1.2 miles downstream of the river's confluence with the Peralta Main Wasteway (RM 151.2). A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.61 miles downstream of Hwy 346 (RM 138.1). The river had dried to this point previously this year. Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 5.1 miles. There has been 0.25 miles of river that have dried since yesterday.

Total river dry in the Isleta Reach, including the two dry segments, is 21.05 miles. There has been 0.2 miles of river that have dried since yesterday. Of this drying, 0.05 miles represents 'new drying.' Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

3 47	Rio Grande 5.66 miles upstream of Los Lunas Bridge (RM 167.15)	Top of river drying. River is advancing downstream at rate of 0.1 ft. per minute. This point is 0.05 miles upstream of the previous maximum extent of drying for the reach and therefore represents "new drying".	0.00 (0 - 0)	Viŝual	3861180	343644	_		None	
4:45	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge	0.00 (0 - 0)	Visual	( <del></del> )	-	-	=	None	
5:00	Rio Grande 1.2 miles downstream of Peralta Main Wasteway (RM 151.2)	Bottom of river drying	0.00 (0 - 0)	Visual	77	-	3838289	340190	None	
8:00	Rio Grande at Belen (RM 149.5)	Continuous flow	4.00 (3 - 5)	Visual	~		~	-	None	
6;10	Rio Grande 2.61 miles downstream of Hwy 346 (RM 138,1)	Top of river drying. There has been 0.2 miles of river that have dried since yesterday The river has dried upstream of this point previously this year	0.00 (0 - 0)	Visual	3821175	335299	В	4	None	
6:30	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	~	~	3813565	334405	None	
7:15	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	4.00 (3 - 5)	Visual	-	-	-	-	None	

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

10-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 20.02 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 14.45-mile segment in the vicinity of Islata Diversion-Belen, extending south from a point approximately 5.6 miles upstream of Los Lunas Bridge (RM 166.95) to the river's confluence with the Peralta Main Wasteway (RM 152.5).

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.15 miles downstream of Hwy 346 (RM 138.57). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 5.57 miles. There has been 0.47 miles of river that have dried since yesterday, of which 0.27 is considered "new drying".

Total river dry in the Isleta Reach, including the two dry segments, is 20.02 miles. There has been 1,36 miles that have rewel since yesterday. There has been 0.47 miles of river that have dried since yesterday. Of this drying, 0.27 miles represents "new drying." Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

5:30	Rio Grande 5 6 miles upstream of Los Lunas Bridge (RM 166,95)	Top of river drying. Some 0.06 miles of river have rewet since yesterday.	0.00 (0 - 0)	Visual	3861103	343584	~	-	None
6:30	Peralta Main Wasleway (RM 152,5)	Irrigation system discharge to river	20,00 (20 - 20)	Visual	-	-	-	$\equiv$	None
6:31	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying. Some 1.3 miles of river have rewet since yesterday.	0,00 (0 - 0)	Visual	-	-	3840149	340126	None
6:45	LP1 Drain (RM 150)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	_	-	-	None
7:40	Rio Grande 2.15 miles downstream of Hwy 346 (RM 138.57)	Top of river drying. There has been 0.47 miles of river that have dried since yesterday, of which 0.27 is considered "new drying",	0,00 (0 - 0)	Visual	3821786	335730	-	7	None
8.30	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	-	=	3813565	334405	None
10:00	Rio Grande at Hwy 60 (RM 130.6)	continuous flow	4 00 (3 - 5)	Visual	-	-	-	-	None

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

11-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 18,53 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 14.45-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.6 miles upstream of Los Lunas Bridge (RM 166.95) to the river's confluence with the Peralta Main Wasteway (RM 152.5).

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.72 miles downstream of Hwy 346 (RM 137.08). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 4.08 miles. There has been 1.49 miles of river that have rewet since yesterday.

Total river dry in the Isleta Reach, including the two dry segments, is 18.53 miles. There has been 1.49 miles that have rewel since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

:5:30	Rio Grande 5.6 miles upstream of Los Lunas Bridge (RM 166.95)	Top of river drying	0.00 (0 - 0)	Visual	3861103	343584	-	_	None
6:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	10,00 (10 - 10)	Visual	-	24	-	-	None
6:35	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying	0.00 (0 - 0)	Visual	-	*	3840149	340126	None
7:00	Rio Grande at Belen (RM 149.5)	Continuous flow	12.50 (10 - 15)	Visual	-	-	-	=	None
7:40	Storey Wasteway (RM 140.1)	Irrigation system discharge to river	7,50 (5 - 10)	Visual	-	-	-	-	None
17:00	Rio Grande 3.72 miles downstream of Hwy 346 (RM 137.08)	Top of river drying. There has been 1,49 miles of river that have rewet since yesterday.	0.00 (0 - 0)	Visual	3819582	335464	$\sim$	-	None
0:00	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	-	~	3813565	334405	Site not observed this date
18:00	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	4.00 (3 - 5)	Visual	-	-	-	-	None

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date	Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

12-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 19.07 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 15.21-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.56 miles upstream of Los Lunas Bridge (RM 166.91) to a point approximately 0.7 miles downstream of the Peralta Main Wasteway (RM 151.7). There has been 0.04 miles of river that have rewet at the top end; however, there has been 0.7 miles of discontinuous flow below the Peralta Main.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.94 miles downstream of Hwy 346 (RM 136.86). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 3.86 miles. There has been 0.22 miles of river that have rewet since yesterday.

Total river dry in the Isleta Reach, including the two dry segments, is 19.07 miles. There has been 0.26 miles that have rewet and 0.8 miles that have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

6:00	Rio Grande 5.56 miles upstream of Los Lunas Bridge (RM 166.91)	Top of river drying. There has been 0.04 miles of river that have rewet since yesterday.	0.00 (0 - 0)	Visual	3861046	343533	~	-	None
6:55	Peralta Main Wasleway (RM 152.5)	Imigation system discharge to river	0,00 (0 - 0)	Visual	=	-	-	87	None
7:30	Rio Grande 0.7 miles downstream Peralta Main Wasteway (RM 151.7)	Bottom of river drying There has been 0.8 miles of river that have dried since yesterday.	0.00 (0-0)	Visual	-	-	3839002	340348	None
8:00	Rio Grande at Belen (RM 149,5)	Continuous flow	7.50 (5 - 10)	Visual	_	-	_		None
8:30	Río Grande 3,84 miles downstream of Hwy 346 (RM 136,84)	Top of river drying. There has been 0.22 miles of river that have rewet since yesterday.	0.00 (0 - 0)	Visual	3819228	335407	-	-	None
9:10	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	~	-	3813565	334405	None

200	Isle	ta Reach		Estimated Flow Flow (cfs) Estimate	River Drying G			
Date	Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

13-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 19.19 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 15.71-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.56 miles upstream of Los Lunas Bridge (RM 166.91) to a point approximately 1.2 miles downstream of the Peralta Main Wasteway (RM 151.2). There has been 0.46 miles of river at the "bottom of river drying" that have dried since yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.32 miles downstream of Hwy 346 (RM

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.32 miles downstream of Hwy 346 (RM 136.48). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 3.48 miles. There has been 0.38 miles of river that have rewet since yesterday.

Total river level since yesterday.

Total river dry in the Isleta Reach, including the two dry segments, is 19.19 miles. There has been 0.38 miles that have rewel and 0.46 miles that have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

5:00	Rio Grande 5.56 miles upstream of Los Lunas Bridge (RM 166.91)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3861046	343533	~	-	None
6:00	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0,00 (0 - 0)	Visual	-	-	=	-	None
6:30	Rio Grande 1.2 miles downstream Peralta Main Wasteway (RM 151.2)	Bottom of river drying. There has been 0.46 miles of river that have dried since yesterday.	0.00 (0 - 0)	Visual	-	_	3838286	340189	None
7:00	Rio Grande at Belen (RM 149.5)	Continuous flow	6.00 (5 - 7)	Visual	_	-	_	-	None
7:30	Rio Grande 4.32 miles downstream of Hwy 346 (RM 136.48)	Top of river drying. There has been 0,38 miles of river that have rewet since yesterday.	0.00 (0 - 0)	Visual	3818685	335122	-	-	None
8:00	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	~	-	3813565	334405	None

20 N	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

14-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 21.36 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 15.76-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.56 miles upstream of Los Lunas Bridge (RM 166.91) to a point approximately 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). There has been 0.05 miles of river at the "bottom of river doving" that have dried since vesterday this represents "new drying."

miles of river at the "bottom of river drying" that have dried since yesterday; this represents "new drying."

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.09 miles downstream of Hwy 346 (RM 138.6). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 5.6 miles. Some 2.12 miles of river have dried in this river segment since yesterday. Of this drying, 0.03 miles represents "new drying."

Total river dry in the Isleta Reach, including the two dry segments, it is 21.36 miles. In total, some 2.17 miles of river have dried since yesterday. Of this drying, 0.08 miles represents "new drying." Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

4:16	Rio Grande 5.56 miles upstream of Los Lunas Bridge (RM 166.91)	Top of river drying	0.00 (0 - 0)	Visual	3861056	343534	~	-	None
5,10	Peralta Main Wasleway (RM 152,5)	Irrigation system discharge to river	0,00 (0 - 0)	Visual	-	-	-	3	None
5:20	Rio Grande 1.27 miles downstream Peralta Main Wasteway (RM 151.15)	Bottom of river drying. There has been 0.05 miles of river that have dried since yesterday, this represents "new drying."	0.00 (0 - 0)	Visual	-	-	3838215	340104	None
8:10	Rio Grande at Belen (RM 149.5)	Continuous flow	4.00 (3 - 5)	Visual	-	-	-	9	None
7:43	Rio Grande at Hwy 346 (RM 140.7)	Continuous flow	4.00 (3 - 5)	Visual	-	-	-	=	None
6:50	Rio Grande 2,09 miles downstream of Hwy 346 (RM 138.6)	Top of river drying. Some 2.12 miles of river have dried in this river segment since yesterday. Of this drying, 0.03 miles represents "new drying"	0.00 (0 - 0)	Visual	3821810	335782		1	None
7:15	Rio Grande 2,3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	-	-	3813565	334405	None
7:25	Rio Grande at Hwy 60 (RM 130:7)	Continuous flow	4.00 (3 - 5)	Visual	$\sim$	-	~	-	None
	5:10 5:20 8:10 7:43 6:50	(RM 166.91) 5:10 Peralta Main Wasteway (RM 152.5) 5:20 Rio Grande 1.27 miles downstream Peralta Main Wasteway (RM 151.15) 8:10 Rio Grande at Belen (RM 149.5) 7:43 Rio Grande at Hwy 346 (RM 140.7) 6:50 Rio Grande 2.09 miles downstream of Hwy 346 (RM 138.6) 7:15 Rio Grande 2.3 miles upstream of US 60 (RM 133) 7:25 Rio Grande at Hwy 80 (RM	upstream of Los Lunas Bridge (RM 166:91)  5:10 Peralta Main Wasteway (RM 152.5)  5:20 Rio Grande 1.27 miles downstream Peralta Main Wasteway (RM 151.15)  8:10 Rio Grande at Belen (RM 149.5)  7:43 Rio Grande at Hwy 346 (RM 140.7)  6:50 Rio Grande 2,09 miles downstream of Hwy 346 (RM 138.6)  7:45 Rio Grande 2,3 miles upstream of US 60 (RM 133)  7:25 Rio Grande at Hwy 60 (RM Continuous flow 17.5 Rio Grande at Hwy 60 (RM 15.5)  8:10 Rio Grande 2,3 miles upstream of US 60 (RM 133)  7:25 Rio Grande at Hwy 60 (RM Continuous flow 17.5 Rio Grande at Hwy 60 (RM Continuous flow 17.5 Rio Grande at Hwy 60 (RM Continuous flow 17.5 Rio Grande at Hwy 60 (RM Continuous flow 17.5 Rio Grande at Hwy 60 (RM Continuous flow 17.5 Rio Grande at Hwy 60 (RM Continuous flow 17.5 Rio Grande at Hwy 60 (RM Continuous flow 17.5 Rio Grande at Hwy 60 (RM Continuous flow 17.5 Rio Grande at Hwy 60 (RM Continuous flow 17.5 Rio Grande at Hwy 60 (RM Continuous flow 17.5 Rio Grande at Hwy 60 (RM Continuous flow 17.5 Rio Grande at Hwy 60 (RM Continuous flow 17.5 Rio Grande at Hwy 60 (RM Continuous flow 17.5 Rio Grande at Hwy 60 (RM Continuous flow 17.5 Rio Grande at Hwy 60 (RM Continuous flow 17.5 Rio Grande at Hwy 60 (RM Continuous flow 17.5 Rio Grande at Hwy 60 (RM Continuous flow 17.5 Rio Grande at Hwy 60 (RM Continuous flow 17.5 Rio Grande 2.3 miles (RM Continuous flow	upstream of Los Lunas Bridge (RM 166.91)  5:10 Peralta Main Wasteway (RM 152.5) Irrigation system discharge to river  5:20 Rio Grande 1.27 miles downstream Peralta Main Wasteway (RM 151.15) Bottom of river drying. There has been 0.05 miles of river that have dried since yesterday; this represents "new drying.  8:10 Rio Grande at Belen (RM 149.5)  7:43 Rio Grande at Hwy 346 (RM 140.7)  6:50 Rio Grande 2.09 miles downstream of Hwy 346 (RM 138.6)  Top of river drying. Some 2.12 miles of river have dried in this river segment since yesterday. Of this drying 0.03 miles represents "new drying"  7:15 Rio Grande 2.3 miles upstream of US 60 (RM 133)  7:25 Rio Grande at Hwy 80 (RM Continuous flow 4.00 (3 - 5)	upstream of Los Lunas Bridge (RM 166:91)  5:10 Peralta Main Wasteway (RM 152.5) Imigation system discharge to river 152.5) Rio Grande 1.27 miles downstream Peralta Main Wasteway (RM 151.15) Bottom of river drying. There has been 0.05 miles of river that have dried since yesterday; this represents "new drying."  8:10 Rio Grande at Belen (RM 2001) Continuous flow 4.00 (3 - 5) Visual 149.5)  7:43 Rio Grande at Hwy 346 (RM 140.7)  6:50 Rio Grande 2.09 miles downstream of Hwy 346 (RM 138.6)  Top of river drying. Some 2.12 miles of river have dried in this river segment since yesterday. Of this drying, 0.03 miles represents "new drying"  7:15 Rio Grande 2.3 miles upstream of US 60 (RM 133)  8:00 Grande at Hwy 80 (RM 2001) Continuous flow 4.00 (3 - 5) Visual 4.00	upstream of Los Lunas Bridge (RM 166.91)  5:10 Peralta Main Wasteway (RM 152.5) river  5:20 Rio Grande 1.27 miles downstream Peralta Main Wasteway (RM 151.15) Bottom of river drying. There has been 0.05 miles of river that have dried since yesterday; this represents "new drying.  8:10 Rio Grande at Belen (RM 149.5)  7:43 Rio Grande at Hwy 346 (RM 140.7)  6:50 Rio Grande 2.09 miles downstream of Hwy 346 (RM 138.6)  Top of river drying. Some 2.12 miles of river have dried in this river segment since yesterday. Of this drying 0.03 miles represents "new drying"  7:15 Rio Grande 2.3 miles upstream of US 60 (RM 133)  8:20 Rio Grande at Hwy 80 (RM Continuous flow 4.00 (3 - 5) Visual —	Upstream of Los Lunas Bridge (RM 166:91)   Usual   Upstream of Los Lunas Bridge (RM 166:91)   Usual   Upstream of Los Lunas Bridge (RM 166:91)   Usual   Upstream of Los Lunas Bridge   Upstream of Los Grande at Belen (RM 151.15)   Upstream of Los Grande at Belen (RM 149.5)   Upstream of Los Grande at Hwy 346 (RM 140.7)   Upstream of Los Grande 2.3 miles   Upstream of Los Grande 2.4 miles of river drying   Upstream of Los Grande 2.5 miles   Upstream of	Upstream of Los Lunas Bridge (RM 166.91)	upstream of Los Lunas Bridge (RM 166.91)         Irrigation system discharge to 152.5)         0.00 (0 - 0)         Visual         —

	Isle	ta Reach				GIS Coordinates 983, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

15-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 21.16 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 15.76-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.56 miles upstream of Los Lunas Bridge (RM 168.91) to a point approximately 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.29 miles downstream of Hwy 346 (RM 138.4). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 5.4 miles. Some 0.2 miles of river have rewet in this segment since yesterday.

Total river dry in the Isleta Reach, including the two dry segments, is 21.16 miles. In total, some 0.2 miles of river have rewet since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

4:07	Rio Grande 5.56 miles upstream of Los Lunas Bridge (RM 166.91)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3861056	343534	-	-	None	
4:57	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	~	~	-		None	
5:07	Rio Grande 1.27 miles downstream Peralta Main Wasteway (RM 151.15)	Bottom of river drying. No change since yesterday	0.00 (0 - 0)	Visual	-	-	3838215	340104	None	
7:35	Rio Grande at Belen (RM 149.5)	Continuous flow	4.00 (3 - 5)	Visual		-	-	=	None	
6;02	Rio Grande 2,29 miles downstream of Hwy 346 (RM 138.4)	Top of river drying. Some 0.2 miles of river have rewet in this segment since yesterday.	0.00 (0 - 0)	Visual	3821677	335450	~	-	None	
7:10	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	-	-	3813565	334405	None	
7:15	Rio Grande at Hwy 60 (RM 130.7)	Continuous flow	4.00 (3 - 5)	Visual	-	-	-	-	None	

Staff box	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying C		
Date	Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

16-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 21.31 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 15.76-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.56 miles upstream of Los Lunas Bridge (RM 166.91) to a point approximately 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.16 miles downstream of Hwy 346 (RM 138.55). Bottom of drying in this segment is 5.55 miles. Some 0.15 miles of river have dried in this segment since yesterday.

Total river dry in the Isleta Reach, including the two dry segments, is 21.31 miles. In total, some 0.15 miles of river have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

4:0	Rio Grande 5.56 miles upstream of Los Lunas Bridge (RM 166.91)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3861056	343534	-	-	None
5:1	Peralta Main Wasteway (RM 152,5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	4	~	-	~	None
5:2	Rio Grande 1.27 miles downstream Peralta Main Wasteway (RM 151.15)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	***	-	3838215	340104	None
6:3	Rio Grande 2.16 miles downstream of Hwy 346 (RM 138.55)	Top of river drying. Some 0.15 miles of river have dried in this segment since yesterday.	0.00 (0 - 0)	Visual	3821776	335713	÷	Ä	None
7:1	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying.	0.00 (0 - 0)	Visual	-	-	3813565	334405	None
7:1	Rio Grande at Hwy 60 (RM 130.7)	Continuous flow	4.00 (3 - 5)	Visual	-	-	-	-	None

Isle	ta Reach	Estimated Flow (cfs)		Flow Estimate		er Drying GIS Coordinates (UTM NAD 1983, Zone 13)		
Date Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments	

17-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 21.06 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 15.76-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.53 miles upstream of Los Lunas Bridge (RM 166.88) to a point approximately 1.38 miles downstream of the Peralta Main Wasteway (RM 151.12). Some 0.03 miles of river have rewet in this segment since yesterday; some 0.03 miles of river have dried in this segment since yesterday.

A second segment of river is reduced to solated pools between Hwy 346 and US 60. Top of drying in this segment is 2,38 miles downstream of Hwy 346 (RM 138.3). Bottom of drying in this segment to 5.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 5.3 miles. Some 0.32 miles of river have rewel in this segment is 2.38 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 21.06 miles. In total, some 0.03 miles of river have dried since yesterday and 0.28 miles of river rewet since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

5:00	Rio Grande 5.53 miles upstream of Los Lunas Bridge (RM 166.88)	Top of river drying. Some 0.03 miles of river have rewet in this segment since yesterday.	0.00 (0 - 0)	Visual	3861035	343486	~	-	None
6:00	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0,00 (0 - 0)	Visual	-	-	-	-	None
6:15	Rio Grande 1.38 miles downstream Peralta Main Wasteway (RM 151.12)	Bottom of river drying. Some 0.03 miles of river have dried in this segment since yesterday.	0,00 (0 - 0)	Visual	-	_	3838204	340051	None
6:25	LP1 Drain (RM 150)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	_	_	_	None
7:30	Río Grande 2,38 miles downstream of Hwy 346 (RM 138.3)	Top of over drying. Some 0.32 miles of river have rewet in this segment since yesterday.	0.00 (0 - 0)	Visual	3821431	335335	-4	-	None
8:00	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying.	0.00 (0 - 0)	Visual	~	-	3813565	334405	None
8:30	Rio Grande at Hwy 60 (RM 130.7)	Continuous flow	4.00 (3 - 5)	Visual	-	-	-	-	None
	6:00 6:15 6:25 7:30 8:00	(RM 166.88)  6:00 Peralta Main Wasteway (RM 152.5)  6:15 Rio Grande 1.38 miles downstream Peralta Main Wasteway (RM 151.12)  6:25 LP1 Drain (RM 150)  7:30 Rio Grande 2.38 miles downstream of Hwy 346 (RM 138.3)  8:00 Rio Grande 2.3 miles upstream of US 60 (RM 133)  8:30 Rio Grande at Hwy 50 (RM	upstream of Los Lunas Bridge (RM 166.88)  6:00 Peralta Main Wasteway (RM 152.5)  6:15 Rio Grande 1.38 miles downstream Peralta Main Wasteway (RM 151.12)  6:25 LP1 Drain (RM 150)  7:30 Rio Grande 2.38 miles downstream of Hwy 346 (RM 138.3)  8:00 Rio Grande 2.3 miles upstream of US 60 (RM 133)  8:30 Rio Grande at Hwy 60 (RM Continuous flow	upstream of Los Lunas Bridge (RM 166.88) miles of river have rewet in this segment since yesterday.  6:00 Peralta Main Wasteway (RM 152.5) Irrigation system discharge to river  6:15 Rio Grande 1.38 miles downstream Peralta Main Wasteway (RM 151.12) Bottom of river drying. Some 0.00 (0 - 0) Units segment since yesterday.  6:25 LP1 Drain (RM 150) Irrigation system discharge to river  7:30 Rio Grande 2.38 miles downstream of Hwy 346 (RM 138.3) Units segment since yesterday.  8:00 Rio Grande 2.3 miles upstream of US 60 (RM 133) Bottom of river drying. Some 0.32 priles of river have rewet in this segment since yesterday.  8:00 Rio Grande 2.3 miles upstream of US 60 (RM 133) Continuous flow 4.00 (3 - 5)	upstream of Los Lunas Bridge (RM 166.88) miles of river have rewet in this segment since yesterday.  6:00 Peralta Main Wasteway (RM 152.5) Irrigation system discharge to river  6:15 Rio Grande 1.38 miles downstream Peralta Main Wasteway (RM 151.12) Bottom of river have dried in this segment since yesterday.  6:25 LP1 Drain (RM 150) Irrigation system discharge to river  7:30 Rio Grande 2.38 miles downstream of Hwy 346 (RM 138.3) To portiver drying. Some 0.32 downstream of Hwy 346 (RM 138.3) Bottom of river drying. Some 0.32 miles of river have rewet in this segment since yesterday.  8:00 Rio Grande 2.3 miles upstream of US 60 (RM 133)  8:30 Rio Grande at Hwy 60 (RM Continuous flow 4.00 (3 - 5) Visual	upstream of Los Lunas Bridge (RM 166.88) miles of river have rewet in this segment since yesterday.  6:00 Peralta Main Wasteway (RM 152.5) Irrigation system discharge to river drying. Some downstream Peralta Main Wasteway (RM 151.12) Bottom of river have dried in Wasteway (RM 151.12) Irrigation system discharge to river drying. Some 0.00 (0 - 0) Visual —  7:30 Rio Grande 2.38 miles downstream of Hwy 346 (RM 138.3) Top of river drying. Some 0.32 downstream of Hwy 346 (RM 138.3) Bottom of river drying. Bottom of river drying. D.00 (0 - 0) Visual —  8:00 Rio Grande 2.3 miles upstream of US 60 (RM 133) Bottom of river drying. D.00 (0 - 0) Visual —  8:30 Rio Grande at Hwy 60 (RM Continuous flow 4.00 (3 - 5) Visual —	upstream of Los Lunas Bridge (RM 166,88) miles of river have rewet in this segment since yesterday.  6:00 Peralta Main Wasteway (RM 152.5) Irrigation system discharge to river drying. Some 0,00 (0 - 0) Visual — — 0.03 miles of river have dried in Wasteway (RM 151,12) Irrigation system discharge to river have dried in this segment since yesterday.  6:25 LP1 Drain (RM 150) Irrigation system discharge to river drying. Some 0.32 down stream of Hwy 346 (RM 138.3) Top of river drying. Some 0.32 miles of river have rewet in this segment since yesterday.  8:00 Rio Grande 2.3 miles upstream of US 60 (RM 133)  Bottom of river drying: 0.00 (0 - 0) Visual — — 0.00 (0 - 0) Visual — 0.00 (0 - 0) V	upstream of Los Lunas Bridge (RM 166,88) miles of river have rewet in this segment since yesterday.  6:00 Peralta Main Wasteway (RM 152.5) Irrigation system discharge to river drying. Some 0.00 (0 - 0) Visual — — 3838204 downstream Peralta Main Wasteway (RM 151.12) Bottom of river drying. Some 0.03 miles of river have dried in this segment since yesterday.  6:25 LP1 Drain (RM 150) Irrigation system discharge to river drying. Some 0.32 downstream of Hwy 346 (RM 138.3) Top of river drying. Some 0.32 miles of river have rewet in this segment since yesterday.  8:00 Rio Grande 2.38 miles upstream of US 60 (RM 133) Bottom of river drying: 0.00 (0 - 0) Visual — 3813565	upstream of Los Lunas Bridge (RM 166,88) miles of river have rewet in this segment since yesterday.  6:00 Peralta Main Wasteway (RM 152.5) Irrigation system discharge to river  6:15 Rio Grande 1.38 miles downstream Peralta Main Wasteway (RM 151.12) Bottom of river drying. Some 0.03 miles of river have dried in this segment since yesterday.  6:25 LP1 Drain (RM 150) Irrigation system discharge to river  7:30 Rio Grande 2.38 miles downstream of Hwy 346 (RM 138.3) To of river drying. Some 0.32 miles of river have rewet in this segment since yesterday.  8:00 Rio Grande 2.3 miles upstream of US 60 (RM 133)  Bottom of river drying. D.00 (0 - 0) Visual — 3813565 334405 upstream of US 60 (RM 133)

Isle	eta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

18-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 5 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 5.0-mile segment in the vicinity of Hwy 346 and US 60 Bridges extending south from a point approximately 2.8 miles downstream of Hwy 346 Bridge (RM 138) to a point approximately 2.3 miles upstream of US 60 Bridge (RM 133). Some 0.3 miles of fiver have rewet in this segment since yesterday.

Total river dry in the Isleta Reach is 5,0 miles. In total, some 16,06 miles of river rewet since yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach.

7:00	Rio Grande 0.9 miles downstream of Peralta Wasteway (RM 151.5)	Continuous flow	200,00 (200 - 200)	Visual	~	-		4	None
7:45	Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	4.00 (3 - 5)	Visual	-	~	=		None
8.15	Rio Grande at Hwy 346 Bridge (RM 140.8)	Continuous flow	4.00 (3 - 5)	Visual	-	-	=	-	None
8:30	Storne Wasteway (RM 140.1)	Imgation system discharge to river	7,50 (5 - 10)	Visual	-	-	-	-	None
9:00	Rio Grande 2.70 miles downstream of Hwy 346 Bridge (RM 138.03)	Top of river drying. Some 0.23 miles of river have rewet in this segment since yesterday.	0.00 (0 - 0)	Visual	3821039	335282	$\simeq$	-	None
9:55	Rio Grande 2.3 miles upstream of US 60 Bridge (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	++	1=0	3813565	334405	None
0:30	Rio Grande at Hwy 60 (RM 130.7)	Continuous flow	4.00 (3 - 5)	Visual	-		41		None

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate Type	River Drying G	
Date	Time	Location*	Observation	Avg (Range)		Top (N - E)	Bottom (N - E)

19-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 10.7 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 10.7-mile segment extending south from a point approximately 2.21 miles upstream of Los Lunas Bridge (RM 163.5) to a point 0.35 miles upstream of Peralta Wasteway (RM 152.85). This segment of river dried previously this year. Aside from this segment, the flow in the main river channel is continuous in the Isleta Reach. The 5.0-mile segment of river from a point approximately 2.8 miles downstream of Hwy 346 Bridge (RM 138) to a point approximately 2.3 miles upstream of US 60 Bridge (RM 133) rewet since yesterday. Total river dry in the Isleta Reach is 10.7 miles. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach.

6:01	Rio Grande 2.21 miles upstream of Los Lunas (RM 163.5)	Top of drying. Isolated pools are quickly shrinking.	0.00 (0 = 0)	Visual	3855908	343166		-	None	
4:12	Rio Grande at Los Lunas (RM 161.4)	No flow	0.00 (0 = 0)	Visual		-	1-3	-	None	
7:18	Rio Grande 0.35 miles upstream of Peralta Wasteway (RM 152.85)	Bottom of river drying	0.00 (0-0)	Visual	-	-	3840691	340086	None	
6:55	Peralta Wasteway (RM 152.5)	Irrigation discharge to river	0.00 (0 - 0)	Visual	-		-	~	None	
7:45	Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	6.00 (5 - 7)	Visual	-	-	$\leftarrow$	-	None	
8:00	Rio Grande at Hwy 346 Bridge (RM 140.8)	Continuous flow	65.00 (60 - 70)	Visual	~	$\sim$	-	-	None	
8:30	Rio Grande 2.3 miles upstream of US 60 Bridge (RM 133)	Continuous flow	45 00 (40 - 50)	Visual	-	-	*	-	None	
8:45	Rio Grande at Hwy 60 (RM 130.7)	Continuous flow	35.00 (30 - 40)	Visual	=	-	-	7	None	

	Isleta Reach			Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

20-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 13,44 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 13.4-mile segment extending south from a point approximately 4.6 miles upstream of Los Lunas Bridge (RM 165.94) to the Peralta Main Wasteway (RM 152.5). Some 2.75 miles of river have dired since yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach.

4:22	Rio Grande 4.6 miles upstream of Los Lunas Bridge (RM 165.94)	Top of river drying. Some 2.4 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3859733	342645	-	-	None	
5:20	Peralta Main Wasteway (RM 152.5)	Irrigation discharge to river	27,50 (25 - 30)	Visual	=	-	-	-	None	
:5:21	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying. Some 0:35 miles of river have dried since yesterday.	0.00 (0 - 0)	Visual	=	-	3840149	340126	None	
6;22	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Continuous flow	17.50 (15 - 20)	Visual	-	~	-	-	None	
6:35	Rio Grande at Hwy 60 (RM 130.7)	Continuous flow	8.50 (7 - 10)	Visual	***	-	-	_	None	

21-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 13 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 13.0-mile segment extending south from a point approximately 4.1 miles upstream of Los Lunas Bridge (RM 165.5) to the Peralta Main Wasteway (RM 152.5). Some 0.4 miles of river have rewet since yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach.

6:25	Rio Grande 4.1 miles upstream of Los Lunas Bridge (RM 165.5)	Top of river drying. Some 0.4 miles of river have rewet at the "top of drying" since yesterday.	0.00 (0 = 0)	Visual	3859074	342740	4	-	None	
5:12	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	17.50 (15 - 20)	Visual	-	-	-	-	None	
5:15	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	in the second		3840149	340126	None	
4:22	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Continuous flow	17.50 (15 - 20)	Visual	~	-	-		None	

	Isleta	ta Reach		Estimated Flow (cfs)	Flow Estimate Type	River Drying G	
Date	Time	Location*	Observation	Avg (Range)		Top (N - E)	Bottom (N - E)

22-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 15.2 mile segment in the Isleta Reach.

General Comments: River is reduced to isolated pools over a 15.2-mile segment extending south from a point approximately 6.26 miles upstream of Los Lunas Bridge (RM 167.7) to the Peralta Main Wasteway (RM 152.5). Some 2.2 miles of river have dried at the "top of drying" since yesterday. Of this drying, 0.55 miles represents "new drying". Aside from this segment, flow in the main river channel is continuous in the isleta Reach.

6:40	Rio Grande 6,26 miles upstream of Los Lunas Bridge (RM 167.7)	Top of river drying. Some 2.2 miles of river have dried at the "top of drying" since yesterday. Of this drying, 0.55 miles represents "new drying".	0.00 (0 - 0)	Visual	3861822	344383	-	1	None
5:05	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.50 (0.5 - 0.5)	Visual	199	-	<del>-</del>	-	None
5.45	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying. No change since yesterday.	0.00 (0-0)	Visual	-	-	3840149	340126	None
4:15	Rio Grande 2,3 miles upstream of US 60 (RM 133)	Continuous flow	17.50 (15 - 20)	Visual	-	-	-	-	None
8:25	Rio Salado at I-25 (RM 118.5)	Continuous flow	30.00 (30 - 30)	Visual	-		-	-	None

23-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 12.2 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 12.2-mile segment extending south from a point approximately 3.3 miles upstream of Los Lunas Bridge (RM 164.7) to the Peralta Main Wasteway (RM 152.5). Some 3.0 miles of river have rewet at the "top of drying" since yesterday. Aside from this segment, flow in the main river channel is continuous in the Islata Reach.

6:15	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	5,00 (5 - 5)	Visual	-	9	-	-	None	
7:00	Rio Grande 3,3 miles upstream of Los Lunas Bridge (RM 164.7)	Top of river drying. Some 3.0 miles of river have rewet at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3857813	343051	-	-	None	
5 10	Peralta Main Wasteway (RM 152.5)	Imgation system discharge to river	32.50 (30 ~ 35)	Visual	-	-	-	-	None	
5:11	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	-	3840149	340126	None	
4:20	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Continuous flow	12.50 (10 - 15)	Visual	~	-	~		None	

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate Type	River Drying G	
Date	Time	Location*	Observation	Avg (Range)		Top (N - E)	Bottom (N - E)

24-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 12 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 12.0-mile segment extending south from a point approximately 3.1 miles upstream of Los Lunas Bridge (RM 164.7) to the Peralta Main Wasteway (RM 152.5). Some 0.2 miles of river have rewet at the "top of drying" since yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach.

7:00	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	17.50 (15 - 20)	Visual	-	-	-	-	None	
6:15	Rio Grande 3.1 miles upstream of Los Lunas Bridge (RM 164.5)	Top of river drying. Some 0.2 miles of river have rewet at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3857506	343036	-	7	None	
5:05	Peralta Main Wasteway (RM 152.5)	Imgation system discharge to river	32 50 (30 - 35)	Visual	-		-		None	
5:06	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying. No change since yesterday.	0.00 (0-0)	Visual	-	-	3840149	340126	None	
4:11	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Continuous flow	17.50 (15 - 20)	Visual	4-7		94	13	None	

	Isle	a Reach		Estimated Flow (cfs)	Flow Estimate Type	River Drying G	
Date	Time	Location*	me Location* Observation	Avg (Range)		Top (N - E)	Bottom (N - E)

25-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 12,55 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 12.55-mile segment extending south from a point approximately 3.65 miles upstream of Los Lunas Bridge (RM 165.05) to the Peralta Main Wasteway (RM 152.5). Some 0.55 miles of river have dried at the "top of drying" since yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach.

6:47	Rio Grande just upstream of Alejandro Wasteway (RM 166.65)	Continuous flow	4.00 (3 - 5)	Visual	-	-	-	ú	None	
6:45	Alejendro Wasteway (RM 166,63)	Irrigation system discharge to river	0.00 (0-0)	Visual	=	-	-	-	None	
6:40	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	6.00 (5 - 7)	Visual	-	-	-	-	None	
6:30	Rio Grande 3.65 miles upstream of Los Lunas Bridge (RM 165.05)	Top of river drying. Some 0.55 miles of river have dried at the "top of drying" since yesterday,	0.00 (0 - 0)	Visual	3858347	342909	=	-	None	
5:00	Peralta Main Wasteway (RM 152.5)	Imigation system discharge to river	6.00 (5 - 7)	Visual	-	-		panel .	None	
5:01	Rio Grande at Peralta Main Wasteway (RM 152,5)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual		-	3840149	340126	None	

26-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 12.65 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 12.65-mile segment extending south from a point approximately 3.75 miles upstream of Los Lunas Bridge (RM 165.15) to the Peralta Main Wasteway (RM 152.5). Some 0.10 miles of river have dried at the "top of drying" since yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach.

61.2	Rio Grande 3.75 miles upstream of Los Lunas Bridge (RM 165.15)	Top of river drying. Some 0.10 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3858518	342819	-	-	None	
6:55	Peralta Main Wasleway (RM 152.5)	Irrigation system discharge to river	7 50 (5 - 10)	Visual	-		-		None	
	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	~	88	3840149	340126	None	

=	Isle	eta Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 3, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
-Aug-	2012	General Comments: The	river is dry or reduced to isolated poo	ols over a 12,77 mile segn	nent in the Isleta Read	ch,				7777
		to th	r is reduced to isolated pools over a e Peralta Main Wasteway (RM 152.5 channel is continuous in the Isleta R	). Some 0.12 miles of nv						
	6:10	Rio Grande 3,87 miles upstream of Los Lunas Bridge (RM 165.27)	Top of river drying. Some 0.12 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3858753	342782	-	-	None
	7:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	6,00 (5 - 7)	Visual	-	-	-		None
	7:31	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	-	3840149	340126	None
8-Aug-	2012	Rive to th	river is dry or reduced to isolated poor r is reduced to isolated pools over a e Peralta Main Wasteway (RM 152,5 channel is continuous in the Isleta R	12.92-mile segment exten ). Some 0.10 miles of riv	ding south from a poir	nt approximal				
	6:00	Rio Grande 4.03 miles upstream of Los Lunas Bridge (RM 165.42)	Top of river drying. Some 0.15 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3858925	342740	-	5	None
		upstream of Los Lunas Bridge	miles of river have dried at the	0.00 (0 - 0) 3.00 (2 - 4)	Visual	3858925	342740	0	-	
	7:00	upstream of Los Lunas Bridge (RM 165.42) Peralta Main Wasteway (RM	miles of river have dried at the "top of drying" since yesterday.			3858925	342740	3840149	340126	None
	7:00 7:05	upstream of Los Lunas Bridge (RM 165.42) Peralta Main Wasteway (RM 152.5) Rio Grande at Peralta Main	miles of river have dried at the "top of drying" since yesterday. Irrigaiton discharge to river	3.00 (2 - 4)	Visual	3858925	342740	3840149	 340126 	None

Is	leta Reach	,	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying G	
Date Tir	ne Location*	on* Observation			Top (N - E)	Bottom (N - E)

29-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 14.49 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 13.75-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 4.16 miles upstream of Los Lunas Bridge (RM 165.56) to a point approximately 0.67 miles downstream of the Peralta Main Wasteway (RM 151.81). Some 0.88 miles of river have dried in this segment since yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is at Abeytas Heading (RM 134,24). Bottom of drying in this segment is 2.8 miles upstream of US 60 (RM 133.5). Total dry river in this segment is 0.74 miles. Some 0.74 miles of river have dried in this segment since vesterday.

Total river dry in the Isleta Reach, including the two dry segments, is 14.49 miles. In total, some 0.88 miles of river have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

7:55	Rio Grande just upstream of Alejandro Wasteway (RM 166,65)	Continuous flow	3.00 (2 - 4)	Visual	~	-	~	-	None
7:45	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	3,00 (2 - 4)	Visual	+	-	-	-	None
7:30	Rio Grande 4.16 miles upstream of Los Lunes Bridge (RM 165,56)	Top of river drying. Some 0.19 miles of river have dried at the "top of drying" since yesterday.	0.00 (0-0)	Visual	3859138	342733	$\simeq$	-	None
5:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	_		-	_	None
6:06	Río Grande 0.69 miles downstream of Peralta Main Wasteway (RM 151.81)	Bottom of river drying. Some 0.65 miles of river have dried at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual	-	~	3839192	340350	None
4:30	Rio Grande at Abeylas Heading (RM 134 24)	Top of river drying	0.00 (0 - 0)	Visual	3815421	334460	~	-	None
4:49	Rio Grande 2.8 miles upstream of US 60 (RM 133.5)	Bottom of river drying	0.00 (0 - 0)	Visual	-	-	3814324	334857	None

Isl	eta Reach		Estimated Flow Flow (cfs) Estimate	Flow Estimate	River Drying G	Comments
Date Time		Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	

30-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 17.5 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 13.95-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 4.16 miles upstream of Los Lunas Bridge (RM 165.56) to a point approximately 0.76 miles downstream of the Peralta Main Wasteway (RM 151.85). Some 0.24 miles of river have dried in this segment since yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 3.84 miles downstream of Hwy 346 (RM 136.85). Bottom of drying in this segment is 2.55 miles upstream of US 60 (RM 133.27). Total dry river in this segment is 3.55 miles. Some 2.81 miles of river have dried in this segment since vesterday.

Total river dry in the Isleta Reach, including the two dry segments, is 17.5 miles. In lotal, some 3.05 miles of river have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

7:45	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	3.00 (2 - 4)	Visual	~	-	~	-	None
7:30	Rio Grande 4.16 miles upstream of Los Lunas Bridge (RM 165.56)	Top of river drying.	0.00 (0 - 0)	Visual	3859138	342733	-	-	None
6:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0,00 (0 - 0)	Visual	-	-	=	-	None
6:27	Rio Grande 0,76 miles downstream of Peralla Main Wasteway (RM 151.61)	Bottom of river drying. Some 0.24 miles of river have dried at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual	()	-	3838919	340335	None
5:00	Rio Grande 3,84 miles downstream of Hwy 346 (RM 136,85)	Top of river drying. Some 2.61 miles of river have dried at the "top of drying" since yesterday	0.00 (0 - 0)	Visual	3819251	335454	. *	-	None
5:30	Rio Grande 2.55 miles upstream of US 60 (RM 133.3)	Bottom of river drying. Some 0.2 miles of river have dried at the "bottom of drying" since yesterday	0.00 (0 - 0)	Visual	-	-	3814005	334717	None

	eta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying G (UTM NAD 1	
Date Tim	e Location* Observation Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments	

31-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 18,71 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 14.25-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 4.16 miles upstream of Los Lunas Bridge (RM 165.56) to a point approximately 1.1 miles downstream of the Peralta Main Wasteway (RM 151.27.), Some 0.34 miles of river have dried in this segment since yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 3.03 miles downstream of Hwy 346 (RM 136.85). Bottom of drying in this segment is 2.49 miles upstream of US 60 (RM 133.19). Total dry river in this segment is 4.46 miles. Some 0.88 miles of river have dried in this segment since vesterday.

Total river dry in the Isleta Reach, including the two dry segments, is 18.71 miles. In total, some 1.21 miles of river have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

7:30	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	3.00 (2 - 4)	Visual	~	-	-	-	None
7:40	Rio Grande 4.16 miles upstream of Los Lunas Bridge (RM 165.56)	Top of nver drying. No change since yesterday.	0.00 (0 - 0)	Visual	3859137	342731	~	-	None
6:10	Peralta Main Wasteway (RM 152.5)	Irrigation discharge to river	0,00 (0 - 0)	Visual	-	-	=	-	None
6:31	Rio Grande 1.1 miles downstream of Peralta Main Wasteway (RM 151.31)	Bottom of river drying. Some 0.30 miles of river have dried at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual	(404)	-	3838395	340219	None
5:15	Rio Grande 3,03 miles downstream of Hwy 346 (RM 137,65)	Top of river drying. Some 0.6 miles of river have dried at the "top of drying" since yesterday	0.00 (0 - 0)	Visual	3820570	335433	-81	-	None
4:24	Rio Grande 2.5 miles upstream of US 60 (RM 133.19)	Bottom of river drying. Some 0.11 miles of river have dried at the "bottom of drying" since yesterday	0.00 (0 - 0)	Visual	-	-	3813916	334661	None

	Islet	ta Reach		Estimated Flow (cfs)	Flow Estimate Type	River Drying G	
Date	Time	Location*	Observation	Avg (Range)		Top (N - E)	Bottom (N - E)

01-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 19,59 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 14,36-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 4,16 miles upstream of Los Lunas Bridge (RM 165.56) to a point approximately 1.2 miles downstream of the Peralta Main Wasteway (RM 151.2.), Some 0.07 miles of river have dried in this segment since yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 2.38 miles downstream of Hwy 346 (RM 138.42). Bottom

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 2.38 miles downstream of Hwy 346 (RM 138.42). Bottom of drying in this segment is 2.5 miles, Some 0.77 miles of river have dried in this segment is 5.23 miles. Some 0.77 miles of river have dried in this segment since vesterday.

Total river dry in the Isleta Reach, including the two dry segments, is 19.59 miles. In total, some 0.84 miles of river have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

6:00	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	3.00 (2 - 4)	Visual	~	-	-	-	None	
6:10	Rio Grande 4.16 miles upstream of Los Lunas Bridge (RM 165.56)	Top of river drying	0.00 (0 - 0)	Visual	3859137	342731	-	-	None	
7:20	Peralta Main Wasteway (RM 152.5)	Irrigation discharge to river	0.00 (0 - 0)	Visual	-	-	=		None	
7:25	Rio Grande 1.2 miles downstream of Peralla Main Wasleway (RM 151.2)	Bottom of river drying. Some 0.07 miles of river have dried at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual			3838286	340193	None	
8:20	Rio Grande 2,38 miles downstream of Hwy 346 (RM 138,42)	Top of river drying. Some 0.77 miles of river have dried at the "top of drying" since yesterday	0.00 (0 - 0)	Visual	3821729	335522	-	-	None	
9:15	Río Grande 2.5 míles upstream of US 60 (RM 133.19)	Bottom of river drying	0.00 (0 - 0)	Visual	-	-	3813916	334661	None	

	Isleta Reach			Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date	Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

02-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 20.13 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 14.48-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 4.23 miles upstream of Los Lunas Bridge (RM 165.63) to a point approximately 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15.). Some 0.15 miles of river have dried in this segment since yesterday.

river have dried in this segment since yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 2.15 miles downstream of Hwy 346 (RM 138,65). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133). Total dry river in this segment is 5.85 miles. Some 0.45 miles of river have dried in this segment since yesterday. Of this drying, 0.05 represents "new drying".

Total river dry in the Isleta Reach, including the two dry segments, is 20.13 miles. In total, some 0.6 miles of river have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

6:50	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	continuous flow	3.00 (2 - 4)	Visual	~	-	-	-	None	
7:05	Rio Grande 4.23 miles upstream of Los Lunas Bridge (RM 165.63)	Top of river drying. Some 0.07 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3859232	342671	-	-	None	
8:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	=	-	None	
8:35	Rio Grande 1.27 miles downstream of Peralta Main Wasteway (RM 151.15)	Bottom of river drying. Some 0.08 miles of river have dried at the "bottom of drying" since yesterday.	0,00 (0 - 0)	Visual	-	-	3838215	340104	None	
9:20	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	4.00 (3 - 5)	Visual	-	-	$\sim$	-	None	
10:10	Rio Grande 2.15 miles downstream of Hwy 346 (RM 138.65)	Top of river drying. Some 0.23 miles of river have dried at the "top of drying" since yesterday. Of this drying, 0.05 represents "new drying."	0.00 (0 - 0)	Visual	3821861	335863	~	~	None	
11:30	Rio Grande 2.3 miles upstream of US 60 Bridge (RM 133)	Bottom of river drying. Some 0.22 miles of river have dried at the "bottom of drying" since yesterday.	0,00 (0 - 0)	Visual		~	3813565	334405	None	
12:00	Rio Grande at US 60 Bridge (RM 130.6)	Continuous flow	3,00 (2 - 4)	Visual			-	=	Notice	

	Isleta Reach			Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

03-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 20.21 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 14.48-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 4.23 miles upstream of Los Lunas Bridge (RM 165.63) to a point approximately 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15.). No change in this segment since yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 2.08 miles downstream of Hwy 346 (RM 138,73). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133). Total dry river in this segment is 5.73 miles. Some 0.07 miles of river have dried in this segment since yesterday, all of which represents "new drying"

Total river dry in the Isleta Reach, including the two dry segments, is 20.21 miles. In total, some 0.08 miles of river have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

8:50	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	1.25 (0.5 - 2)	Visual	~	-	-	-	None
9:10	Rio Grande 4.23 miles upstream of Los Lunas Bridge (RM 165.63)	Top of river drying	0.00 (0 - 0)	Visual	3859232	342671	-	-	None
10:15	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	=		None
10:40	Rio Grande 1.27 miles downstream of Peralta Main Wasteway (RM 151.15)	Bottom of river drying	0.00 (0 - 0)	Visual	(in)	-	3838215	340104	None
11:15	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	2.30 (2.3 - 2.3)	Visual		-	-	-	Observation confirms USGS internet posting of flow
11:50	Rio Grande 2.08 miles downstream of Hwy 346 (RM 138.73)	Top of river drying. Some 0.08 miles of river have dried at the "top of drying" since yesterday, all of which represents "new drying".	0.00 (0 - 0)	Visual	3821922	335960	~	-	None
12:20	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0,00 (0 - 0)	Visual	100	~	3813565	334405	None
12:30	Rio Grande at US 60 Bridge (RM 130.6)	Continuous flow	2.50 (2 - 3)	Visual	-	-	-	_	None

	Isleta Reach			Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date Ti	ime	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

04-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 20.26 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 14.48-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 4.23 miles upstream of Los Lunas Bridge (RM 165.63) to a point approximately 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). No change in this segment since yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 1.94 miles downstream of Hwy 346 (RM 138.87). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133). Total dry river in this segment is 5.78 miles. Some 0.05 miles of river have dried in this segment since yesterday, all of which represents "new drying"

Total river dry in the Isleta Reach, including the two dry segments, is 20.26 miles. In total, some 0.05 miles of river have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

Rio Grande at USGS Bosque Farms Gauge (RM 166.1)     Rio Grande 4.23 miles upstream of Los Lunas Bridge (RM 165.63)     Peralta Main Wasteway (RM 152.5)	Continuous flow  Top of river drying  Irrigation system discharge to	1.25 (0.5 - 2) 0.00 (0 - 0)	Visual	3859232	342671	~		None
upstream of Los Lunas Bridge (RM 165.63) 5 Peralta Main Wasteway (RM			Visual	3859232	342671	-	-	None
	Irrigation system discharge to							tions
	river	0.00 (0 - 0)	Visual	-	-	=	-	None
Rio Grande 1.27 miles downstream of Peralta Main Wasteway (RM 151.15)	Bottom of river drying	0.00 (0 - 0)	Visual	-	-	3838215	340104	None
5 Río Grande at Hwy 346 (RM 140,8)	Continuous flow	1,60 (1,8 - 1.6)	Visual	144	-	-	-	Observation confirms USGS posting of flow
0 Rio Grande 1.94 miles downstream of Hwy 346 (RM 138.78)	Top of river drying. Some 0.05 miles of river have dried at the "top of drying" since yesterday, all of which represents "new drying".	0,00 (0 - 0)	Visual	3822037	336169	-		None
	Bottom of river drying:	0.00 (0 - 0)	Visual	-	-	3813565	334405	None
		138.78) "top of drying" since yesterday, all of which represents "new drying".  5 Rio Grande 2,3 miles Bottom of river drying.	138.78) "top of drying" since yesterday, all of which represents "new drying".  5 Rio Grande 2.3 miles Bottom of river drying. 0.00 (0 - 0)	138.78) "top of drying" since yesterday, all of which represents "new drying".  5 Rio Grande 2.3 miles Bottom of river drying. 0.00 (0 - 0) Visual	138.78) "top of drying" since yesterday, all of which represents "new drying".  5 Rio Grande 2.3 miles Bottom of river drying. 0.00 (0 - 0) Visual —	138.78) "top of drying" since yesterday, all of which represents "new drying".  5 Rio Grande 2.3 miles Bottom of river drying. 0.00 (0 - 0) Visual — —	138.78) "top of drying" since yesterday, all of which represents "new drying".  5. Rio Grande 2.3 miles Bottom of river drying. 0.00 (0 - 0) Visual — 3813565	138.78) "top of drying" since yesterday, all of which represents 'new drying".  5 Rio Grande 2.3 miles Bottom of river drying: 0.00 (0 - 0) Visual —

Isleta Reach			Estimated Flow (cfs)	Flow Estimate	River Drying G (UTM NAD 1		
Date Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

05-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 20,38 mile segment in the Isleta Reach

River is reduced to isolated pools over a 14.6-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 4.35 miles upstream of Los Lunas Bridge (RM 165.75) to a point approximately 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15).

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 1.94 miles downstream of Hwy 346 (RM 138.87). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133). Total dry river in this segment is 5.78 miles. No change in this segment since yesterday. Total river dry in the Isleta Reach, including the two dry segments, is 20.38 miles. In total, some 0.12 miles of river have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

7:55	Rio Grande just upstream of Alejandro Wasteway (RM 166.65)	Continuous flow	2.50 (2 - 3)	Visual	-	~	-	-	None	
7:53	Alejendro Wasteway (RM 166.63)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	-	-3	None	
7:30	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	1,50 (1 - 2)	Visual		$\sim$	-	===	None	
7:25	Rio Grande 4.35 miles upstream of Los Lunas Bridge (RM 165.75)	Top of river drying. Some 0.12 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 = 0)	Visual	3859499	342650	-	~	None	
6:15	Peralta Main Wasleway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	-	-	None	
6:30	Rio Grande 1.27 miles downstream of Peralta Main Wasteway (RM 151.15)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	+	-	3838215	340104	None	
5:24	Rio Grande 1.94 miles downstream of Hwy 346 (RM 138.78)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3822037	336169	÷		None	
4:28	Rio Grande 2.3 miles upstream of US 50 (RM 133)	Bottom of river drying. No change since yesterday.	0,00 (0 - 0)	Visual	44		3813565	334405	None	

	Islet	a Reach		Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

06-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 21.18 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 14.68-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 4.4 miles upstream of Los Lunas Bridge (RM 165.83) to a point 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). Some 0.08 miles of river have dried at the "top of drying" since vesterday. "Rettom of drying" is upstranged from vesterday.

drying since yesterday. "Bottom of drying is unchanged from yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 2.03 miles downstream of Hwy 346 (RM 138.7). Bottom of drying in this segment is 1.55 miles upstream of US 60 (RM 132.2). Total dry river in this segment is 6.5 miles. Some 0.18 miles of river have rewet at the "top of drying" since yesterday. Some 0.8 miles of river have died at the "bottom of drying" since yesterday. This drying represents "new drying". Total river dry in the Isleta Reach, including the two dry segments, is 21.18 miles. In total, some 0.88 miles of river have dried since yesterday, and 0.18 miles of river have rewet. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

4:06	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	0.75 (0.5 - 1)	Visual	~	-	~	-	None	
4:09	Rio Grande 4.4 miles upstream of Los Lunas Bridge (RM 165.83)	Top of river drying. Some 0.08 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3859569	342634	~	-	None	
5:00	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	=		None	
5:16	Rio Grande 1.27 miles downstream of Peralta Main Wasteway (RM 151.15)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	-	3838215	340104	None	
8:59	Río Grande at Belen Bridge (Hwy 309) (RM 149.5)	Continuous flow	3.00 (2 - 4)	Visual		-	2	-	None	
9.15	Rio Grande 0.47 miles downstream of Bridge (Hwy 309) (RM 149.03)	Continuous flow	3.50 (3 - 4)	Visual	-	-	-	_	None	
8;40	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	3.00 (2 - 4)	Visual	-	-	-	4	None	
6:30	Rio Grande 2,03 miles downstream of Hwy 346 (RM 138,7)	Top of river drying. Some 0.08 miles of river have rewet at the "top of drying" since yesterday	0.00 (0 - 0)	Visual	3821910	336002	-	-	None	
7:38	Rio Grande 1,55 miles -upstream of US 60 (RM 132.2)	Bottom of river drying. Some 9.8 miles of river have dried at the "bottom of drying" since yesterday. This drying represents "new drying".	0,00 (0 - 0)	Visual	-	1-6	3812402	334463	None	
8:30	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	3.50 (3 - 4)	Visual		$\overline{\mathcal{A}}_{i}$	-	=	None	

	Isleta Rea			Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

07-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 14.78 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 14.78-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 4.5 miles upstream of Los Lunas Bridge (RM 165.93) to a point 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). Some 0.10 miles of river have dried at the "top of drying" since yesterday. "Bottom of drying" is unchanged from yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach. Some 6.5 miles of river have rewet between Hwy 346 and US 60 since yesterday.

3.58	Rio Grande just upstream of Alejandro Wasteway (RM 166.65)	Continuous flow	2 50 (2 - 3)	Visual	-	7-	÷	-	None
3:55	Alejandro Wasteway (RM 166.63)	Imigation system discharge to river	0.00 (0 - 0)	Visual	-	-	÷	-	None
3:39	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	0.75 (0.5 - 1)	Visual	-	-	-	~	None
4:10	Rio Grande 4.5 miles upstream of Los Lunas Bridge (RM 165.93)	Top of river drying. Some 0.10 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3859697	342626	-	-	None
4:45	Peralta Main Wasteway (RM 152.5)	Imgation system discharge to river	0.00 (0 - 0)	Visual	-	-	-	-	None
4:58	Rio Grande 1,27 miles downstream of Peralta Main Wasteway (RM 151,15)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	=	3838215	340104	None
7:15	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	3.00 (2 - 4)	Visual	-	-	~	-	None
6.00	Rio Grande 2.03 miles downstream of Hwy 346 (RM 138.7)	Continuous flow	55.00 (50 - 60)	Visual	-	=	-	=	Heightened flow from runoff down Aba Arroya
6:35	Rio Grande 1.55 miles upstream of US 60 (RM 132.2)	Continuous flow	75.00 (70 - 80)	Visual	-	~	-	~	Heightened flow from runoff down Abo Arroyo
7:00	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	3.50 (3 - 4)	Visual	-	~	-	3	None

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate		GIS Coordinates 983, Zone 13)	
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

08-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 19.8 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 14.76-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 4.5 miles upstream of Los Lunas Bridge (RM 165.93) to a point 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15).

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 2.59 miles downstream of Hwy 346 (RM 138.2). Bottom of drying in this segment is 2.45 miles upstream of US 60 (RM 133.18). A total 5.02 miles of river dried in this segment since yesterday. This segment has dried previously this year.

Total river dry in the Isleta Reach, including the two dry segments, is 19,8 miles. In total, some 5,02 miles of river have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.

3:58	Rio Grande just upstream of Alejandro Wasteway (RM 166.65)	Continuous flow	1.50 (1 - 2)	Visual	$\sim$	-	-	-	None
3:55	Alejandro Wasteway (RM 166,63)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	~	-	-	None
3:40	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	0.75 (0.5 - 1)	Visual	***	***	**	-	None
3.45	Rio Grande 4.5 miles upstream of Los Lunas Bridge (RM 165.93)	Top of river drying. No change since yesterday.	0.00 (0-0)	Visual	3859697	342626	-	=	None
4:43	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river. Discharge has no measurable effect on river.	4.00 (3 - 5)	Visual	~	-	~	-	None
:5:00	Rio Grande 1.27 miles downstream of Peralta Main Wasteway (RM 151.15)	Bottom of river drying. No change since yesterday	0.00 (0 - 0)	Visual	-	-	3838215	340104	None
6:13	Rio Grande 2,59 miles downstream of Hwy 346 (RM 138.2)	Top of river drying.	0.00 (0 = 0)	Visual	3821312	335301	5	7	None
7:50	Rio Grande 2.48 miles upstream of US 60 (RM 133.18)	Bottom of river drying	0.00 (0 - 0)	Visual	-	-	3813858	334613	None
7:00	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Continuous flow	3.00 (2 - 4)	Visual	_	_	_		None
7:10	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	3,50 (3 - 4)	Visual	-	-	-	-	None

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate		GIS Coordinates 983, Zone 13)	
Date	Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

09-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 19,78 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 15.06-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 4.78 miles upstream of Los Lunas Bridge (RM 166.21) to a point 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). Since yesterday in this segment, 0.28 miles of river dried at "top of drying"; "bottom of drying is unchanged since yesterday. This segment has dried previously this year.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 2.99 miles downstream of Hwy 346 (RM 137.8). Bottom of drying in this segment is 2.38 miles upstream of US 60 (RM 133.08). Total miles of river dried in this segment equals 4.72 miles. This segment has dried previously this year. Since yesterday in this segment, 0.4 miles of river rewet at "top of drying" and 0.1 miles of river dried at the "bottom of drying".

Total river dry in the Isleta Reach, including the two dry segments, is 19.78 miles. In total in the Isleta Reach, some 0.38 miles of river have dried since yesterday and 0.4 miles of river have rewet. Aside from the two segments reduced to Isolated pools as described above, flow in the main river channel is continuous in the Isleta Reach.

3:58	Rio Grande just upstream of Alejandro Wasleway (RM 166.65)	Continuous flow	0.75 (0.5 - 1)	Visual	=	-	-	=	None	
3:55	Alejandro Wasteway (RM 166.63)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	-	-	None	
4:11	Rio Grande 4.78 miles upstream of Los Lunas Bridge (RM 166.21)	Top of river drying. Some 0.28 miles of river have dried at the "top of drying".	0.00 (0 - 0)	Visual	3860161	342745	-	-	None	
4:05	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	No flow	0.00 (0 - 0)	Visual	-	-	8	=	None	
4:43	Peralta Main Wasteway (RM 152.5)	Discharge = 2-3 cfs (visual estimate). Discharge has no measurable effect on river	2,50 (2 - 3)	Visual	-	-	=	-	None	
5:00	Rio Grande 1.27 miles downstream of Peralta Main Wasteway (RM 151.15)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	~	-	3838215	340104	None	
6:30	Rio Grande 2.99 miles downstream of Hwy 346 (RM 137,8)	Top of river drying. Some 0.4 miles of river have rewet at the "top of drying".	0.00 (0 - 0)	Visual	3820734	335327	-	-	None	
7:29	Rio Grande 2.38 miles upstream of US 60 (RM 133.08)	Bottom of river drying. Some 0.1 miles of river have dried at the bottom of drying	0.00 (0 - 0)	Visual	-	-	3813719	334524	None	
7:45	Rio Grande 2,3 miles upstream of US 60 (RM 133)	Continuous flow	0.63 (0.5 - 0.75)	Visual	-	-	-	-	None	
8:10	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	2,50 (2 - 3)	Visual	-		-		None	

Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate		983, Zone 13)	
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

10-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 17.45 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 13.93-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 5.00 miles upstream of Los Lunas Bridge (RM 166.43) to the confluence of the Rio Grande and the Peralta Main Wasteway (RM 152.5). Since yesterday in this segment, 0.22 miles of river dried at "top of drying" and 1.38 miles of river revet at the "bottom of drying". This segment has dried previously this year.

A second segment of river is reduced to isolated pools between Hwy 346 and US 50. Top of drying is 4.19 miles downstream of Hwy 346 (RM 136.6). Bottom of drying in this segment is 2.38 miles upstream of US 60 (RM 133.08). Total miles of river dry in this segment equals 3.52 miles. This segment has dried previously this year. Since yesterday in this segment, 1.2 miles of river rewet at "top of drying". The "bottom of drying" is unchanged from yesterday. Total river dry in the Isleta Reach, including the two dry segments, is 17.45 miles. In total in the Isleta Reach, some 0.22 miles of river have dried since yesterday and 2.58 miles of river have rewet. Aside from the two segments reduced to isolated pools as described above, flow in the main river channel is continuous in the Isleta Reach.

3:50	Rio Grande just upstream of Alejandro Wasteway (RM 166.65)	Continuous flow	0.25 (0.25 - 0.25)	Visual	-	-	-	3	None	
3:52	Alejandro Wasteway (RM 166.63)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	-	-	None	
4:00	Rio Grande 5.00 miles upstream of Los Lunas Bridge (RM 166.43)	Top of river drying. Some 0.22 miles of river have dried at the "top of drying".	0.00 (0 - 0)	Visual	3860475	342887	-	-	None	
3:45	Rio Grande at USGS Bosque Farms (RM 166.1)	Flow estimate	0.00 (0 - 0)	Visual	3	-	8	=	None	
4:42	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	16,50 (15 - 18)	Visual	-	-	-	-	None	
4:43	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying. Some 1.38 miles of river have rewet at the "bottom of drying".	0.00 (0 - 0)	Visual	~	-	3840149	340126	None	
6:38	Rio Grande 2.99 miles downstream of Hwy 346 (RM 137.8)	Continuous flow	13.50 (12 - 15)	Visual	-	-		-	None	
8:00	Rio Grande 4.19 miles downstream of Hwy 346 (RM 136,6)	Top of river drying. Some 1.2 miles of river have rewet at the "top of drying".	0.00 (0 - 0)	Visual	3818871	335227	-		None	
6.18	Rio Grande 2.38 miles upstream of US 60 (RM 133.08)	Bottom of river drying. No change from yesterday	0.00 (0 - 0)	Visual	-	-	3813719	334524	None	
7:25	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	2,50 (2 - 3)	Visual	-	-	$\sim$	-	None	

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate		GIS Coordinates 983, Zone 13)	
Date	Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

11-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 14.7 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 13,39-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 4.27 miles upstream of Los Lunas Bridge (RM 165.7) to a point 0.19 miles downstream of the confluence of the Rio Grande and the Peralta Main Wasteway (RM 152.31). Since yesterday in this segment, 0.73 miles of river rewet at "top of drying" and 0.19 miles of river dried at the "bottom of drying". This segment has dried previously this year. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 6.4 miles downstream of Hwy 346 (RM 134.39). Bottom of drying in this segment is 2.38 miles upstream of US 60 (RM 133.08). Total miles of river dry in this segment equals 1.31 miles. This segment has dried previously this year. Since yesterday in this segment, 2.21 miles of river rewet at "top of drying". The "bottom of drying" is unchanged from yesterday.

Total river dry in the Isleta Reach, including the two dry segments, is 14.7 miles. In total in the Isleta Reach, some 2.94 miles of river have rewet since yesterday and 0.19 miles of river have dried. Aside from the two river segments that are reduced to isolated pools as described above, flow in the main river channel is continuous in the Isleta Reach.

3:45	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	5,50 (5 - 6)	Visual	***	***	-	-	None	
4:01	Rio Grande 4.27 miles upstream of Los Lunas Bridge (RM 165.7)	Top of river drying. Some 0.73 miles of river have rewet at the "top of drying".	0.00 (0 = 0)	Visual	3859378	342647	8	-	None	
4:50	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	-	-	None	
5 15	Rio Grande 0:19 miles downstream of Peralta Main Wasteway (RM 152.31)	Bottom of river drying. Some 0.19 miles of river have dried at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual	-	=	3839929	340302	None	
7:24	Rio Grande 6.4 miles downstream of Hwy 346 (RM 134.39)	Top of river drying. Some 2.21 miles of river have rewet at the "top of drying". River is rewetting at rate of 20 ft/10 min. At this rate, the advancing flow of water will connect with downstream flowing segments of the river	0.00 (0 - 0)	Visual	3815613	334355	-	31	None	
6:40	Rio Grande 2.38 miles upstream of US 60 (RM 133.08)	Bottom of river drying, No change from yesterday,	0,00 (0 - 0)	Visual	-	-	3813719	334524	None	
6:52	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	2.50 (2 - 3)	Visual	-	-	-	-	None	

Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate		SIS Coordinates 983, Zone 13)	
Date Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

12-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 16,29 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 13.56-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 4.00 miles upstream of Los Lunas Bridge (RM 165.38) to a point 0.68 miles downstream of the confluence of the Rio Grande and the Peralta Main Wasteway (RM 151.82). Since yesterday in this segment, 0.32 miles of river rewet at "top of drying" and 0.49 miles of river died at the "bottom of drying". This segment has dried previously this year. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.98 miles downstream of Hwy 346 (RM 135.81). Bottom of drying in this segment is 2.38 miles upstream of US 60 (RM 133.08). Total miles of river reduced to isolated pools in this segment are 2.73 miles. This segment has dried previously this year. Since yesterday in this segment, 1.42 miles of river dried at "top of drying". The "bottom of drying" is unchanged from yesterday.

Total river dry in the Isleta Reach, including the two dry segments, is 16.29 miles. In total in the Isleta Reach, some 0.32 miles of river have rewet since

Total river dry in the Isleta Reach, including the two dry segments, is 16.29 miles. In total in the Isleta Reach, some 0.32 miles of river have rewet since yesterday and 1.91 miles of river have dried. Aside from the two river segments that are reduced to isolated pools as described above, flow in the main river channel is continuous in the Isleta Reach.

5.45	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	6.00 (5 - 7)	Visual	**	-	+	-	None	
6:00	Rio Grande 4.00 miles upstream of Los Lunas Bridge (RM 165,38)	Top of river drying. Some 0.32 miles of river have rewet at the "top of drying".	0.00 (0 = 0)	Visual	3858872	342762	~	~	None	
7:00	Peralta Main Wasteway (RM 152.5)	Imigation system discharge to river	0.00 (0 - 0)	Visual	-	-	-	-	None	
7:10	Rio Grande 0.68 miles downstream of Peralta Main Wasteway (RM 151.82)	Bottom of river drying. Some 0.49 miles of river have dried at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual	-	-	3839210	340356	None	
7:20	Rio Grande at Belen (RM 149.5)	Continuous flow	8,50 (7 - 10)	Visual	-	-	=	-	None	
7.35	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	12.50 (10 - 15)	Visual	> <del>+</del>	0-5	+	3	None	
8:00	Rio Grande 4 98 miles downstream of Hwy 346 (RM 135.81)	Top of river drying. Some 1:42 miles of river have dried at the "top of drying".	0,00 (0 - 0)	Visual	3817751	334903	-	-	None	
8:25	Rio Grande 2.38 miles upstream of US 60 (RM 133.08)	Bottom of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	-	-	3813719	334524	None	

Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate		GIS Coordinates 983, Zone 13)	
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

13-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 12,98 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 12.98-mile segment in the vicinity of vicinity of Isleta Diversion-Belen, extending south from a point 3.57 miles upstream of Los Lunas Bridge (RM 164.98) to a point 0.43 miles downstream of the Peralta Main Wasteway (RM 152.0). Some 0.4 miles of river have rewet at the "top of drying" since yesterday, while 0.18 miles of river have rewet at the "bottom of drying" since yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach. Some 2.73 miles of river have rewel between Hwy 346 and US 60 since yesterday (that river segment is through-flowing).

5:55	Rio Grande 3.57 miles upstream of Los Lunas Bridge (RM 164,98)	Top of river drying. Some 0.4 miles of river have rewet at the "top of drying",	0.00 (0 - 0)	Visual	3858266	342919		0-	None
6:50	Peralta Main Wasteway (RM 152.5)	Imigation system discharge to river	0.00 (0 - 0)	Visual	-	***	÷		None
7:00	Rio Grande 0.43 miles downstream of Peralla Main Wasteway (RM 152)	Bottom of river drying. Some 0.18 miles of river have rewet at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual	-	~	3839444	340381	None
7:15	Rio Grande at Belen (RM 149.5)	Continuous flow	12.50 (10 - 15)	Visual	-	-	-	~	None
7:40	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	25 00 (20 - 30)	Visual	100	-	-	):	None
9:30	Rio Grande 2.38 miles upstream of US 60 (RM 133.08)	Continuous flow. The river that was dry yesterday morning for 2.73 miles upstream of this point has rewet.	NA	Visual	~	-	-	==	None
2:00	Rio Salado at I-25 (RM 118.56)	Evidence that flow in river in past several hours was 2.0 feet higher than it is at this time,	1000.00 (1000 - 1000)	Visual	-	-	=		None

l	sleta Reach		Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying C	
Date T	ime Location*	Observation			Top (N - E)	Bottom (N - E)

14-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 12.23 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 12.23-mile segment in the vicinity of vicinity of Isleta Diversion-Belen, extending south from a point 3.32 miles upstream of Los Lunas Bridge (RM 164-73) to Peralta Main Wasteway (RM 152.5). Some 0.27 miles of river have rewet at the "top of drying" since yesterday, while 0.43 miles of river have rewet at the "bottom of drying" since yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach. The river remains through flowing between Hwy 346 and US 60 (beginning September 13, 2012).

8-30	Rio Salado at I-25 (RM 118.56)	Floodwater discharge	100.00 (100 - 100)	Visual			-	0.0	None
8:15	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	8.50 (7 - 10)	Visual	-		-	-	None
7:40	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	12,50 (10 - 15)	Visual	-	1994	-	-	None
7:00	Rio Grande at Belen (RM 149.5)	Continuous flow	12.50 (10 - 15)	Visual	-	-	-	-	None
5:41	Peralta Main Wasteway (RM 152.5)	Bottom of river drying. Some 0.43 miles of river have rewet at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual	-	~	3840149	340126	None
3:40	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	3,50 (2 - 5)	Visual	++		4	-	None
5.45	Rio Grande 3.32 miles upstream of Los Lunas Bridge (RM 164,73)	Top of river drying. Some 0.27 miles of river have rewet at the "top of drying".	0.00 (0 - 0)	Visual	3857865	343026		_	None

200	Isle	ta Reach		Estimated Flow (cfs) Avg (Range)	Flow Estimate	River Drying G	
	Time	Location*	Observation		Туре	Top (N - E)	Bottom (N - E)

15-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 16 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 13.15-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.38 miles upstream of Los Lunas Bridge (RM 164.75) to a point 0.82 miles downstream of the confluence of the Rio Grande and the Peralta Main Wasteway (RM 151.68). Some 0.02 miles of river have dried at the "top of drying" since yesterday, whereas 0.9 miles of river dried at the "bottom of drying". This segment has dried previously this year.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.77 miles downstream of Hwy 346 (RM 136.03). Bottom of drying in this segment is 2.48 miles upstream of US 60 (RM 133.18). Total miles of river reduced to isolated pools in this segment are 2.85 miles. This segment has dried previously this year.

Total river dry in the Isleta Reach, including the two dry segments, is 16.0 miles. In total, some 0.10 mile of river has rewet since yesterday and 3.77 miles of river have dried. Aside from the two river segments that are reduced to isolated pools as described above, flow in the main river channel is continuous in the Isleta Reach.

6:45	Rio Grande 3.38 miles upstream of Los Lunas Bridge (RM 164.75)	Top of river drying. Some 0.02 miles of river have dried at the "top of drying".	0.00 (0 - 0)	Visual	3857900	343041	÷		None
7.45	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	8	-	None
8:20	Rio Grande 0,77 mi. downstream Peralta Main Wasteway (RM 151.6)	Bottom of river drying. Some 0.9 miles of river have dried at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual	-	)==	3838912	340336	None
8.40	Rio Grande at Belen (RM 149.5)	Continuous flow	7.50 (5 - 10)	Visual	-	-	-	-	None
9:00	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	12,50 (10 - 15)	Visual	-	-	=	-	None
10:30	Rio Grande 4.77 miles downstream of Hwy 346 (RM 136.03)	Top of river drying. Some 2.85 miles of river have dried extending south at the "top of drying".	0.00 (0 - 0)	Visual	3818026	334962	(HE)	=	None
11:15	Rio Grande 2,48 miles upstream of US 60 (RM 133.18)	Bottom of river drying.	0.00 (0 - 0)	Visual	***	-	3813856	334612	None
2:00	Rio Puerco at I-25 (RM 126.5)	Continuous flow	-312.00 (312 - 312)	Visual	-	-	-	=	USGS internet posting of flow
13:00	Rio Puerco at I-25 (RM 126.5)	Continuous flow	309.00 (309 - 309)	Visual	-	-	-	7	USGS internet posting of flow

Isl	eta Reach	Estimated Flow (cfs)		Flow Estimate	River Drying C		
Date Tim	e Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

16-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 13.14 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 13.14-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.37 miles upstream of Los Lunas Bridge (RM 164.74) to a point 0.77 miles downstream of the Peralta Main Wasteway (RM 151.6). Some 0.01 miles of river have rewet at the "top of drying" since yesterday. "Bottom of drying" is unchanged from yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach. Some 2.85 miles of river have rewet between Hwy 346 and US 60 since yesterday.

4:24	Rio Grande 3.37 miles upstream of Los Lunas Bridge (RM 164,74)	Top of river drying. Some 0.01 mile of river has rewet at the "top of drying".	0.00 (0 = 0)	Visual	3857870	343052	-	-	None	
5:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	100		÷		None	
5:48	Rio Grande 0,77 ml. downstream Peralla Main Wasteway (RM 151,6)	Bottom of river drying. Unchanged since yesterday.	0.00 (0 = 0)	Visual	-	-	3838912	340336	None	
7:00	Rio Grande at Abeytas Heading (RM 134.24)	Continuous flow	17.50 (15 - 20)	Visual	-	-	-	-	None	

Isle		ta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

17-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 16.99 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 13.08-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.31 miles upstream of Los Lunas Bridge (RM 164.68) to a point 0.77 miles downstream of the Peralta Main Wasteway (RM 151.6). Some 0.06 miles of river have rewet at the "top of drying" since yesterday. "Bottom of drying" is unchanged from yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.6 miles downstream of Hwy 346 (RM

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.6 miles downstream of Hwy 346 (RM 137.09). Bottom of drying in this segment is 2.48 miles upstream of US 60 (RM 133.18). Total miles of river reduced to isolated pools in this segment are 3.91 miles. This segment has dried previously this year.

Total river dry in the Isleta Reach, including the two dry segments, is 16.99 miles. In total, some 0.06 miles of river have rewet in the Isleta Reach since yesterday; some 3.91 miles of river have dried in the Isleta Reach since yesterday; some 3.91 miles of river have dried in the Isleta Reach since yesterday.

4.5	<ol> <li>Rio Grande 3.31 miles upstream of Los Lunas Bridge (RM 164.68)</li> </ol>	Top of river drying. Some 0.06 mile of river has rewet at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3857782	343038	~	-	None	
4:2	0 Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	-	3	None	
5:0	0 Rio Grande 0.77 mi. downstream Peralta Main Wasteway (RM 151.6)	Bottom of river drying. Unchanged since yesterday.	0,00 (0 - 0)	Visual	-	_	3838912	340336	None	
5:5	8 Rio Grande 3.60 miles downstream of Hwy 346 (RM 137.09)	Top of river drying.	0.00 (0 - 0)	Visual	3819632	335476	-	-	None	
6:3	5 Rio Grande 2.48 miles upstream of US 60 (RM 133.18)	Bottom of river drying	0.00 (0 - 0)	Visual	-	-	3813856	334612	None	
7:0	5 Rio Grande at Hwy 60 (RM 130 6)	Continuous flow	3.00 (2 - 4)	Visual	$\sim$	$\sim$	-	-	None	

Isleta Reach		ta Reach		Estimated	Flow	River Drying G	IS Coordinates	
				Flow (cfs)	Estimate	(UTM NAD 1		
Date Time	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

18-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 16.1 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 13.32-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.26 miles upstream of Los Lunas Bridge (RM 164.63) to a point 1.1 miles downstream of the Peralta Main Wasteway (RM 151.31). Some 0.05 miles of river have rewet at the "top of drying" since vesterday. Some 0.37 miles of river has dried at the "bottom of drying" since yesterday.

drying" since yesterday. Some 0.37 miles of river has dried at the "bottom of drying" since yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.77 miles downstream of Hwy 346 (RM 135.92). Bottom of drying in this segment is 2.48 miles upstream of US 60 (RM 133.18). Since yesterday, some 1.17 mile of river has rewet at the "top of drying". Total miles of river reduced to isolated pools in this segment are 2.74 miles. This segment has dried previously this year.

Total river dry in the Isleta Reach, including the two dry segments, is 16.1 miles. In (otal, some 1.22 miles of river have rewet in the Isleta Reach since yesterday, some 0.37 miles of river have dried in the Isleta Reach since yesterday.

3:47	Rio Grande 3.26 miles upstream of Los Lunas Bridge (RM 164.63)	Top of river drying. Since yesterday, some 0.05 mile of river has rewet at the "top of drying".	0.00 (0 - 0)	Visual	3857712	343022	~	-	None
4:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	~	-		None
4:50	Rio Grande 1.1 ml. downstream Peralta Main Wasteway (RM 151.31)	Bottom of river drying. Some 0.37 mile of river has dried at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual	-	~	3838394	340223	None
6:03	Rio Grande 4.77 miles downstream of Hwy 346 (RM 135,92)	Top of river drying. Since yesterday, some 1.17 mile of river has rewet at the "top of drying". River is rewelting at the rate of 1.0 feet per minute.	0.00 (0 - 0)	Visual	3817916	334945	- 60	9	None
6:30	Rio Grande 2.48 miles upstream of US 60 (RM 133,18)	Bottom of river drying.	0.00 (0 - 0)	Visual	-	-	3813856	334612	None

	Isle	ta Reach		Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying C	
Date	Time	Location*	Observation			Top (N - E)	Bottom (N - E)

19-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 18.75 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 13.46-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.24 miles upstream of Los Lunas Bridge (RM 164.61) to a point 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). Some 0.02 miles of river have rewet at the "top of drying" since yesterday. Some 0.12 miles of river have dried at the "bottom of drying" since yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.22 miles downstream of Hwy 346 (RM 137.47). Bottom of drying in this segment is 1,54 miles upstream of US 60 (RM 132.18). Since yesterday, some 1,55 miles of river have dried at the "top of drying" and 1,0 mile has dried at the "bottom of drying, of which 0.02 represents "new drying". Total miles of river reduced to isolated pools in this segment are 5.29 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 18,75 miles. In total, some 0.02 miles of river have rewet in the Isleta Reach since yesterday, some 2.67 miles of river have dried in the Isleta Reach since yesterday, of which 0.02 represents "new drying"

3:32	Rio Grande 3.24 miles upstream of Los Lunas Bridge (RM 164.61)	Top of river drying. Since yesterday, some 0.02 miles of river has rewet at the "top of drying".	0.00 (0 - 0)	Visual	3857669	343013	=	-	None	
4.15	Peralta Main Wasteway (RM 152,5)	Irrigation system discharge to river	0.00 (0-0)	Visual	-	=	=	-	None	
4:30	Rio Grande 1.27 mi. downstream Peralta Main Wasteway (RM 151.15)	Bottom of river drying. Some 0.12 mile of river has dried at the "bottom of drying"	0.00 (0 - 0)	Visual	-	-	3838214	340099	None	
5:30	Rio Grande 3,22 miles downstream of Hwy 346 (RM 137,47)	Top of river drying. Since yesterday, some 1.55 miles of river have dried at the "top of drying".	0.00 (0 - 0)	Visual	3820194	335524	-	9	None	
6:38	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying. Since yesterday, 1.0 mile of river has dried at the "bottom of drying, of which 0.02 represents "new drying".	0.00 (0 - 0)	Visual	-	~	3812394	334463	None	
6:58	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	3.00 (2 - 4)	Visual	-	~	-	-	None	

407		ta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying G	
		Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)

20-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 18.93 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 13.46-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.24 miles upstream of Los Lunas Bridge (RM 164.61) to a point 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). The "top of drying" and the "bottom of drying" in this segment is unchanged from yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.03 miles downstream of Hwy 346 (RM 137.65). Since yesterday, some 0.18 miles of river have dried at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). The "bottom of drying" in this segment is unchanged from yesterday. Total miles of river reduced to isolated pools in this segment are 5.47 miles. Total river dry in the Isleta Reach, including the two dry segments, is 18.93 miles. In total, some 0.18 miles of river have dried in the Isleta Reach since yesterday.

3:37	Rio Grande 3,24 miles upstream of Los Lunas Bridge (RM 164,61)	Top of river drying. Unchanged from yesterday.	0.00 (0 - 0)	Visual	3857669	343013	~	-	None	
4:00	Peralta Main Wasleway (RM 152.5)	Imigation system discharge to river	0.00 (0 - 0)	Visual	-	-	-	3	None	
4:30	Rio Grande 1.27 ml. downstream Peralta Main Wasteway (RM 151.15)	Bottom of river drying. Unchanged from yesterday.	0.00 (0 - 0)	Visual	-	_	3838214	340100	None	
5:27	Rio Grande 3.03 miles downstream of Hwy 346 (RM 137.65)	Top of river drying. Since yesterday, some 0.18 miles of river have dried at the "top of drying".	0.00 (0 - 0)	Visual	3820489	335460		-0	None	
6:38	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying. Unchanged from yesterday	0.00 (0 = 0)	Visual	~	~	3812394	334463	None	
6:58	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	2.00 (2 - 2)	Visual	-	-	-	=	None	

	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate		983, Zone 13)	
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

21-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 19.32 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 13.85-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.56 miles upstream of Los Lunas Bridge (RM 165.00) to a point 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). Some 0.39 miles of river have dried at the "top of drying" since yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3,03 miles downstream of Hwy 346 (RM 137.65). Bottom of drying in this segment is 1,54 miles upstream of US 60 (RM 132,18). The "top of drying" and the "bottom of drying" in this segment are unchanged from yesterday. Total miles of river reduced to isolated pools in this segment are 5.47 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 19.32 miles. In total, some 0.32 miles of river have dried in the Isleta Reach since vesterday.

5:30	Rio Grande 3,56 miles upstream of Los Lunas Bridge (RM 165)	Top of river drying. Since yesterday, some 0.39 miles of river have dried at the "top of drying".	0.00 (0 - 0)	Visual	3858296	342900	~	-	None
6:15	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	~	-	-	None
6:30	Rio Grande 1.27 mi. downstream Peralta Main Wasteway (RM 151.15)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	-	3838214	340100	None
7:30	Rio Grande 3.03 miles downstream of Hwy 346 (RM 137 65)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3820489	335460	~	=	None
8:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying. No change since yesterday	0.00 (0 - 0)	Visual	~	-	3812394	334463	None
8.30	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	3 00 (2 - 4)	Visual	-	-	-	=	None

Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate		983, Zone 13)	
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

22-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 18.91 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 13.45-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.23 miles upstream of Los Lunas Bridge (RM 164.6) to a point 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). Some 0.33 miles of river have rewet at the "top of drying" since yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3,04 miles downstream of Hwy 346 (RM 137,64). Since yesterday, some 0.01 mile of river has rewet at the 1op of drying. Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132,18). Total miles of river reduced to isolated pools in this segment are 5,46 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 18.91 miles. In total, some 0.34 miles of river have rewet in the Isleta Reach since yesterday.

upstream of Los Lunas Bridge	Top of river drying. Some 0.33 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3857666	343014	~	-	None
Peraita Main Wasleway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	-	3	None
downstream Peralta Main	Bottom of river drying. No change since yesterday.	0,00 (0 - 0)	Visual	-	-	3838214	340100	None
downstream of Hwy 346 (RM	Top of river drying. Since yesterday, some 0.01 mile of river has rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820473	335460	-	7	None
	Presumed bottom of river drying	0.00 (0 - 0)	Visual	~	~	3812394	334463	Site not observed this date
	Rio Grande 1.27 mi. downstream Peralta Main Wasteway (RM 151.15) Rio Grande 3.04 miles downstream of Hwy 346 (RM 137.64) Rio Grande 1.54 miles upstream of US 60 (RM	upstream of Los Lunas Bridge (RM 164.6)  Peralta Main Wasteway (RM 152.5)  Rio Grande 1.27 mi. downstream Peralta Main Wasteway (RM 151.15)  Rio Grande 3.04 miles downstream of Hwy 346 (RM 137.64)  Rio Grande 1.54 miles upstream of US 60 (RM 150 for drying in the fiver drying in the fi	upstream of Los Lunas Bridge (RM 164.6) "itop of drying."  Peralta Main Wasleway (RM 152.5) Imigation system discharge to river  Rio Grande 1.27 mi. Bottom of river drying. No change since yesterday.  Bottom of river drying. No change since yesterday.  Top of river drying. Since yesterday yesterday some 0.01 mile of river has rewet at the "top of drying."  Rio Grande 1.54 miles upstream of US 60 (RM	upstream of Los Lunas Bridge (RM 164.6) miles of river flave rewet at the "top of drying."  Peralta Main Wasteway (RM 152.5) Irrigation system discharge to river  Rio Grande 1.27 mi. Bottom of river drying. No change since yesterday.  Bottom of river drying. No 0.00 (0 - 0) Visual downstream Peralta Main Wasteway (RM 151.15)  Rio Grande 3.04 miles downstream of Hwy 346 (RM 137.64) Top of river drying. Since yesterday some 0.01 mile of river has rewet at the "top of drying."  Rio Grande 1.54 miles Presumed bottom of river drying 0.00 (0 - 0) Visual upstream of US 60 (RM	upstream of Los Lunas Bridge (RM 164.6) miles of river have rewet at the "top of drying."  Peralta Main Wasteway (RM 152.5) Imigallon system discharge to river  Rio Grande 1.27 mi. downstream Peralta Main Wasteway (RM 151.15)  Rio Grande 3.04 miles downstream of Hwy 346 (RM 137.64) Top of river drying. Since yesterday.  Top of river drying. Since 0.00 (0 - 0) Visual 3820473 yesterday, some 0.01 mile of river drying.  Rio Grande 1.54 miles upstream of US 60 (RM Presumed bottom of river drying 0.00 (0 - 0) Visual —	upstream of Los Lunas Bridge (RM 164.6) miles of river have rewet at the "top of drying."  Peralta Main Wasteway (RM 152.5) Imigation system discharge to river  Rio Grande 1.27 mi. downstream Peralta Main Wasteway (RM 151.15)  Rio Grande 3.04 miles downstream of Hwy 346 (RM 137.64) Top of river drying. Since yesterday.  Top of river drying. Since yesterday. Visual 3820473 335460 drying."  Rio Grande 1.54 miles upstream of US 60 (RM	upstream of Los Lunas Bridge (RM 164.6) miles of river frave rewet at the "top of drying."  Peralta Main Wasteway (RM 152.5) Irrigation system discharge to river  Rio Grande 1.27 mi. downstream Peralta Main Wasteway (RM 151.15)  Rio Grande 3.04 miles downstream of Hwy 346 (RM 137.64) Top of river drying. Since yesterday.  Top of river drying. Since yesterday. Visual 3820473 335460 — downstream of Hwy 346 (RM 137.64) Presumed bottom of river drying 0.00 (0 - 0) Visual 3820473 335460 — downstream of US 60 (RM	upstream of Los Lunas Bridge (RM 164.6)  Peralta Main Wasteway (RM 152.5)  Rio Grande 1.27 mi. downstream Peralta Main Wasteway (RM 151.15)  Rio Grande 3.04 miles downstream of Hwy 346 (RM 137.64)  Top of river drying. Since yesterday.  Top of river drying. Since yesterday some 0.01 mile of river has rewet at the "top of drying."  Rio Grande 1.54 miles upstream of US 60 (RM

Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate		983, Zone 13)	
Date Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

Lunas Bridge (RM 164.6) to a point 1.27 miles downstream of the Peralta Main Wasteway (RM 151.27).

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.04 miles downstream of Hwy 346 (RM 137.64). Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 5.46

Total river dry in the Isleta Reach, including the two dry segments, is 18,91 miles.

7:30	Rio Grande 3.23 miles upstream of Los Lunas Bridge (RM 164.6)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3857666	343014	-	-	None	
8:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	-	=	None	
8:50	Río Grande 1,27 mí, downstream Peralta Main Wasteway (RM 151,15)	Bottom of river drying. No change since yesterday.	0,00 (0 - 0)	Visual	-	~	3838214	340100	None	
11:30	Rio Grande 3.04 miles downstream of Hwy 346 (RM 137.64)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3820473	335460	=	7	None	
10:45	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying. No change since yesterday.	0,00 (0 - 0)	Visual	~	-	3812394	334463	None	

Isle	ta Reach		Estimated	Flow	River Drying G	IS Coordinates	
			Flow (cfs)	Estimate	(UTM NAD 1	983, Zone 13)	
Date Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

24-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 19.55 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 13.5-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.28 miles upstream of Los Lunas Bridge (RM 164.65) to a point 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). Some 0.05 miles of river have dried at the "top of drying" since yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.57 miles downstream of Hwy 346 (RM 138.23). Since yesterday, some 0.59 miles of river has dried at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 6.05 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 19.55 miles. In total, some 0.64 miles of river have dried in the Isleta Reach since yesterday.

3;50	Rio Grande 3,28 miles upstream of Los Lunas Bridge (RM 164,65)	Top of river drying. Some 0.05 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3857775	343032	~	-	None	
4:25	Peralta Main Wasleway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	-	3	None	
4:40	Rio Grande 1.27 mi. downstream of Peralta Main Wasteway (RM 151.15)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	-	3838214	340100	None	
5:39	Rio Grande 2.57 miles downstream of Hwy 346 (RM 138.23)	Top of river drying. Since yesterday, some 0.59 miles of river have dried at the "top of drying."	0.00 (0 ~ 0)	Visual	3821329	335303	-		None	
6:29	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying. No change from yesterday	0.00 (0 = 0)	Visual	-	-	3812394	334463	None	
7:00	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	250 (2-3)	Visual	=	-	*	=	None	

Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate		983, Zone 13)	
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

25-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 18.91 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 13.44-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.22 miles upstream of Los Lunas Bridge (RM 164.59) to a point 1.23 miles downstream of the Peralta Main Wasteway (RM 151.15). Some 0.06 miles of river have rewel at the "top of drying" since yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.02 miles downstream of Hwy 346 (RM 137.65). Since yesterday, some 0.58 miles of river have rewet at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 5.47 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 18.91 miles. In total, some 0.64 miles of river have rewet in the Isleta Reach since yesterday.

3:38	Rio Grande 3,22 miles upstream of Los Lunas Bridg (RM 164,59)	Top of river drying. Some 0.06 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3857647	343011	~	-	None	
4:15	Peralta Main Wasleway (RM 152.5)	Imigation system discharge to river	0.00 (0 - 0)	Visual	-	-	7	3	None	
4:35	Rio Grande 1.27 mi. downstream of Peralta Main Wasteway (RM 151.15)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	~	-	3838214	340100	None	
5:24	Rio Grande 3.02 miles downstream of Hwy 346 (RM 137.65)	Top of river drying. Since yesterday, some 0.58 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820542	335427	-	-	None	
0:00	Río Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying.	0.00 (0 = 0)	Visual	~	~	3812394	334463	None	
6:20	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	250 (2-3)	Visual	-	-	*	=	None	

	Islet	a Reach		Estimated	Flow	River Drying G	IS Coordinates	
	_			Flow (cfs)	Estimate	(UTM NAD 1	983, Zone 13)	
Date 1	Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

26-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 17.55 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 12.09-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.23 miles upstream of Los Lunas Bridge (RM 164.6) to the confluence with Peralta Main Wasteway (RM 152.5). Some 1.23 miles of river have rewet at the "bottom of drying" since

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.03 miles downstream of Hwy 346 (RM 137.64). Since yesterday, some 0.01 miles of river have rewet at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 5.46 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 17.55 miles. In total, some 1.24 miles of river have rewet in the Isleta Reach since yesterday.

3:37	Rio Grande 3.22 miles upstream of Los Lunas Bridge (RM 164.59)	Top of river drying. No change since yesterday,	0.00 (0 - 0)	Visual	3857647	343011	~	-	None
4:00	Peralta Main Wasleway (RM 152.5)	Irrigation system discharge to river	8,50 (7 - 10)	Visual	1	-	=	-	None
4:01	Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5)	Bottom of river drying. Since yesterday, some 1.23 miles of river have rewet at the "bottom of drying."	0.00 (0 - 0)	Visual	-	~	3840149	340126	None
5 15	Rio Grande 3.03 miles downstream of Hwy 346 (RM 137 64)	Top of river drying. Since yesterday, some 0.01 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820472	335472	=	3	None
5:55	Rio Grande 1,54 miles upstream of US 60 (RM 132,18)	Bottom of river drying.	0,00 (0 - 0)	Visual	-	-	3812394	334463	None
	4:00 4:01 5:15	upstream of Los Lunas Bridge (RM 164.59) 4:00 Peralta Main Wasteway (RM 152.5) 4:01 Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5) 5:15 Rio Grande 3.03 miles downstream of Hwy 346 (RM 137.64) 5:55 Rio Grande 1.54 miles upstream of US 60 (RM	upstream of Los Lunas Bridge (RM 164.59)  4:00 Peralta Main Wasteway (RM 152.5)  4:01 Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5)  5:15 Rio Grande 3.03 miles downstream of Hwy 346 (RM 137.64)  5:55 Rio Grande 1.54 miles upstream of US 60 (RM	upstream of Los Lunas Bridge (RM 164.59)  4:00 Peralta Main Wasteway (RM 152.5)  4:01 Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5)  5:15 Rio Grande 3.03 miles downstream of Hwy 346 (RM 137.64)  5:55 Rio Grande 1.54 miles upstream of US 60 (RM	upstream of Los Lunas Bridge (RM 164.59)  4:00 Peralta Main Wasteway (RM Irrigation system discharge to river  4:01 Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5)  5:15 Rio Grande 3.03 miles downstream of Hwy 346 (RM 137.64)  5:55 Rio Grande 1.54 miles upstream of US 60 (RM	upstream of Los Lunas Bridge (RM 164.59)  4:00 Peralta Main Wasteway (RM Irrigation system discharge to 152.5)  4:01 Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5)  5:15 Rio Grande 3.03 miles downstream of Hwy 346 (RM 137.64)  5:55 Rio Grande 1.54 miles upstream of US 60 (RM	upstream of Los Lunas Bridge (RM 164.59)  4:00 Peralta Main Wasteway (RM 152.5)  4:01 Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5)  5:05 Rio Grande 3.03 miles downstream of Hwy 346 (RM 137.64)  Top of river drying. Since yesterday, some 0.01 miles of river have rewet at the "bottom of drying."  5:05 Rio Grande 1.54 miles upstream of US 60 (RM 156.60)  Since yesterday, some 0.01 miles of river have rewet at the "top of drying."  Since yesterday, some 0.01 miles of river have rewet at the "top of drying."  Since yesterday, some 0.01 miles of river have rewet at the "top of drying."  Since yesterday is not of river drying. Since yesterday, some 0.01 miles of river have rewet at the "top of drying."  Since yesterday is not of river drying. O.00 (0 - 0) Visual — —	upstream of Los Lunas Bridge (RM 164.59)  4:00 Peralta Main Wasteway (RM 152.5)  4:01 Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5)  5:05 Rio Grande 3.03 miles downstream of Hwy 346 (RM 137.64)  Top of river drying. Since yesterday, some 0.01 miles of river have rewet at the "bottom of drying."  Top of river drying. Since yesterday, some 0.00 (0 - 0)  Visual — 3840149  Visual 3820472 335472 — 3840149	upstream of Los Lunas Bridge (RM 164.59)  4:00 Peralta Main Wasteway (RM 152.5)  4:01 Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5)  5:05 Rio Grande 3.03 miles downstream of Hwy 346 (RM 137.64)  5:05 Rio Grande 1.54 miles upstream of US 60 (RM

Is	eta Reach		Estimated	Flow	River Drying G	IS Coordinates	
			Flow (cfs)	Estimate	(UTM NAD 1	983, Zone 13)	
Date Tim	e Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

27-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 18.18 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 12.76-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.21 miles upstream of Los Lunas Bridge (RM 164.6) to a point 0.68 miles downstream of Peralta Main Wasteway (RM 151.82). Some 0.01 miles of river have rewet at the "top of drying" and 0.68 miles of river have dried at the "bottom of drying" since yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.07 miles downstream of Hwy 346 (RM 137.6). Since yesterday, some 0.04 miles of river have rewet at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 5.42 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 18.18 miles. In total, some 0.68 miles of river have dried and some 0.05 miles of river have rewet in the Isleta Reach since yesterday.

3:39	Rio Grande 3,21 miles upstream of Los Lunas Bridge (RM 164,58)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3857626	343018	~	-	None
4:15	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0,00 (0 - 0)	Visual	-	-	-	3	None
4:55	Rio Grande 0.68 miles downstream of Peralta Main Wasteway (RM 151.82)	Bottom of river drying. Since yesterday, 0.01 miles of river have rewel at the "top of drying" and some 0.68 miles of river have dried at the "bottom of drying."	0,00 (0 – 0)	Visual	-	-	3839211	340359	None
5:30	Rio Grande 3.07 miles downstream of Hwy 346 (RM 137,6)	Top of river drying. Since yesterday, some 0.04 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820321	335447	-	-	None
0:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	-	-	3812394	334463	None
	4:15 4:55 5:30	upstream of Los Lunas Bridge (RM 164.58)  4:15 Peralta Main Wasteway (RM 152.5)  4:55 Rio Grande 0.68 miles downstream of Peralta Main Wasteway (RM 151.82)  5:30 Rio Grande 3.07 miles downstream of Hwy 346 (RM 137.6)  0:00 Rio Grande 1.54 miles upstream of US 60 (RM	upstream of Los Lunas Bridge (RM 164.58)  4:15 Peralta Main Wasteway (RM 152.5)  4:55 Rio Grande 0.68 miles downstream of Peralta Main Wasteway (RM 151.82)  Bottom of river drying. Since yesterday. 0.01 miles of river have rewell at the "top of drying" and some 0.68 miles of river have dried at the "bottom of drying."  5:30 Rio Grande 3.07 miles downstream of Hwy 346 (RM 137.6)  Top of niver drying. Since yesterday, ome 0.04 miles of river have rewet at the "top of drying."	upstream of Los Lunas Bridge (RM 164.58)  4:15 Peralta Main Wasteway (RM 152.5)  4:15 Rio Grande 0.68 miles downstream of Peralta Main Wasteway (RM 151.82)  Bottom of river drying: Since yesterday, 0.01 miles of river have rewet at the "top of drying" and some 0.68 miles of river have dried at the "bottom of drying."  5:30 Rio Grande 3.07 miles downstream of Hwy 346 (RM 137.6)  Top of niver drying. Since yesterday, 0.00 (0 - 0) yesterday. Since yesterday is niver have rewet at the "top of drying."  Top of niver drying. Since yesterday.	upstream of Los Lunas Bridge (RM 164.58)  4:15 Peralta Main Wasteway (RM 152.5)  4:15 Rio Grande 0.68 miles downstream of Peralta Main Wasteway (RM 151.82)  Bottom of river drying. Since yesterday. 0.01 miles of river have rewel at the "top of drying."  5:30 Rio Grande 3.07 miles downstream of Hwy 346 (RM 137.6)  Top of niver drying. Since yesterday. 0.00 (0 - 0)  Visual visual downstream of Hwy 346 (RM 137.6)  Top of niver have rewet at the "top of drying."  7:40 Top of niver drying. Since yesterday. 0.00 (0 - 0)  Visual	upstream of Los Lunas Bridge (RM 164.58)  4:15 Peralta Main Wasteway (RM 152.5)  4:15 Rio Grande 0.68 miles downstream of Peralta Main Wasteway (RM 151.82)  Bottom of river drying. Since yesterday, 0.01 miles of river have rewell at the "top of drying."  5:30 Rio Grande 3.07 miles downstream of Hwy 346 (RM 137.6)  Top of niver drying. Since yesterday, 0.00 (0 - 0)  Top of niver drying. Since yesterday, 0.00 (0 - 0)  Top of niver drying. Since yesterday, 0.00 (0 - 0)  Wisual 3820321 (0.00 Rio Grande 1.54 miles upstream of US 60 (RM drying.)	upstream of Los Lunas Bridge (RM 164.58)  4:15 Peralta Main Wasteway (RM 152.5)  4:15 Rio Grande 0.68 miles downstream of Peralta Main Wasteway (RM 151.82)  Bottom of river drying: Since yesterday, 0.01 miles of river have rewet at the "top of drying" and some 0.68 miles of river have dried at the "bottom of drying.  5:30 Rio Grande 3.07 miles downstream of Hwy 346 (RM 137.6)  Top of niver drying. Since yesterday, 0.00 (0 - 0)  Visual — —  Top of niver drying. Since yesterday. 0.00 (0 - 0)  Visual 3820321 335447 yesterday. Some 0.04 miles of river have rewet at the "top of drying."  0:00 Rio Grande 1.54 miles upstream of US 60 (RM drying.	upstream of Los Lunas Bridge (RM 164.58)  4:15 Peralta Main Wasteway (RM 152.5)  4:15 Rio Grande 0.68 miles downstream of Peralta Main Wasteway (RM 151.82)  Bottom of river drying. Since yesterday, 0.01 miles of river have rewell at the "top of drying."  5:30 Rio Grande 3.07 miles downstream of Hwy 346 (RM 137.6)  Top of niver drying. Since yesterday, 0.00 (0 - 0)  Top of niver drying. Since yesterday (0.00 (0 - 0))  Top of niver drying. Since yesterda	upstream of Los Lunas Bridge (RM 164.58)  4:15 Peralta Main Wasteway (RM 152.5)  4:15 Rio Grande 0.68 miles downstream of Peralta Main Wasteway (RM 151.82)  Bottom of river drying. Since yesterday, 0.01 miles of river have rewet at the "bottom of drying."  5:30 Rio Grande 3.07 miles downstream of Hwy 346 (RM 137.6)  Top of nver drying. Since yesterday, 0.00 (0 - 0)  Top of nver drying. Since yesterday, 0.00 (0 - 0)  Visual — 3839211 340359  Visual — 3839211 340359  Visual 3820321 335447 —

Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate		983, Zone 13)	
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

28-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 18,24 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 12.97-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.21 miles upstream of Los Lunas Bridge (RM 164.58) to a point 0.89 miles downstream of Peralta Main Wasteway (RM 151.61). Some 0.21 miles of river have dried at the "bottom of drying" since yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.22 miles downstream of Hwy 346 (RM 137.45). Since yesterday, some 0.15 miles of river have rewet at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 5.27 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 18,24 miles. In total, some 0.21 miles of river have dried and some 0.15 miles of river have rewet in the Isleta Reach since yesterday.

3:40	Rio Grande 3.21 miles upstream of Los Lunas Bridge (RM 164.58)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3857626	343018	~	-	None
4:15	Peralta Main Wasteway (RM 152.5)	Imigation system discharge to river	0,00 (0 - 0)	Visual	-	-	7	=	None
4:30	Rio Grande 0.89 miles downstream of Peralta Main Wasteway (RM 151.61)	Bottom of river drying. Since yesterday, some 0.21 miles of river have dried at the "bottom of drying."	0,00 (0 - 0)	Visual	-	-	3838922	340336	None
5:27	Rio Grande 3,22 miles downstream of Hwy 346 (RM 137.45)	Top of river drying. Since yesterday, some 0.15 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820067	335509	8	-	None
6:22	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying.	0.00 (0 - 0)	Visual	-	-	3812394	334463	None
6:51	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	2.50 (2 - 3)	Visual	~		~		None

Isle	eta Reach		Estimated Flow (cfs)	Flow Estimate		983, Zone 13)	
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

29-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 15.02 mile segment in the Isleta Reach.

River is reduced to isolated pools over a13.2-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.14 miles upstream of Los Lunas Bridge (RM 164.51) to a point 1.1 miles downstream of Peralta Main Wasteway (RM 151.31). Since yesterday, some 0.09 miles of river have rewet at the top of drying", and 0.3 miles of river have dried at the "bottom of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 6.69 miles downstream of Hwy 346 (RM

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 6.69 miles downstream of Hwy 346 (RM 133.98). Since yesterday, some 3.47 miles of river have rewet at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 1.82 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 15.02 miles. In total, some 3.56 miles of river have rewet and some 0.3 miles of river have dried in the Isleta Reach since yesterday.

4:30	Rio Grande 3.14 miles upstream of Los Lunas Bridge (RM 164.51)	Top of river drying. Since yesterday, some 0.09 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3857520	343033	~	-	None
5:15	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	~	-	-	None
5:28	Rio Grande 1,1 miles downstream of Peralla Main Wasteway (RM 151.31)	Bottom of river drying. Since yesterday, some 0.3 miles of river have dried at the "bottom of drying."	0.00 (0 - 0)	Visual	-	~	3838399	340226	None
7:13	Rio Grande 6,69 miles downstream of Hwy 346 (RM 133,98)	Top of river drying. Since yesterday, some 3.47 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3815049	334615	-	3	None
0:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	-	~	3812394	334463	Site not observed this date
7:48	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	2.50 (2 - 3)	Visual	-	=	-	-	None

Is	eta Reach		Estimated	Flow	River Drying G	IS Coordinates	
			Flow (cfs)	Estimate	(UTM NAD 1	983, Zone 13)	
Date Tim	e Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

30-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 18.18 mile segment in the Isleta Reach.

River is reduced to isolated pools over a13.27-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.16 miles upstream of Los Lunas Bridge (RM 164.53) to a point 1.24 miles downstream of Peralta Main Wasteway (RM 151.26). Since yesterday, some 0.02 miles of river have dried at the "top of drying".

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.58 miles downstream of Hwy 346 (RM 137.09). Since yesterday, some 3.11 miles of river have dried at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 80 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 4.91 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 18.18 miles. In total, some 3.13 miles of river have dried in the Isleta Reach since yesterday.

3:47	Rio Grande 3.16 miles upstream of Los Lunas Bridge (RM 164.53)	Top of river drying. Since yesterday, some 0.02 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3857542	343026	=	-	None
4:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	3,50 (3 - 4)	Visual	-	~~	-	-	None
4:45	Rio Grande 1.24 miles downstream of Peralta Main Wasteway (RM 151.26)	Bottom of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	-	~	3838399	340226	None
6:07	Rio Grande 3.58 miles downstream of Hwy 346 (RM 137 09)	Top of river drying. Since yesterday, some 3.11 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3819615	335465	=	P	None
0:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	=	-	3812394	334463	Site not observed this date

	Isle	ta Reach		Estimated	Flow		983, Zone 13)	
				Flow (cfs)	Estimate	(UTWINAUT)	903, Zone 13)	
Date	Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

01-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 18,58 mile segment in the Isleta Reach.

River is reduced to isolated pools over a13.27-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.16 miles upstream of Los Lunas Bridge (RM 164.53) to a point 1.24 miles downstream of Peralta Main Wasteway (RM 151.26).

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.18 miles downstream of Hwy 346 (RM 137.49). Since yesterday, some 0.40 miles of river have dried at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 5.31 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 18.58 miles. In total, some 0.40 miles of river have dried in the Isleta Reach since yesterday.

4:03	Rio Grande 3.16 miles upstream of Los Lunas Bridge (RM 164,53)	Top of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	3857542	343026	-	-	None	
4:30	Peralta Main Wasteway (RM 152,5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	-		None	
4:53	io Grande 1.24 miles downstream of Peralta Main Wasteway (RM 151.26)	Bottom of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	÷	-	3838399	340226	None	
5:47	Rio Grande 3.18 miles downstream of Hwy 346 (RM 137.49)	Top of river drying. Since yesterday, some 0.40 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3820227	335505	-		None	
6:50	Rio Grande 1,54 miles upstream of US 60 (RM 132,18)	Bottom of river drying. No change from yesterday	0.00 (0 - 0)	Visual	-	-	3812394	334463	None	
7:10	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	2.50 (2 - 3)	Visual	-	-	~		None	

	sle	ta Reach		Estimated Flow (cfs)	Flow Estimate			S Coordii 33, Zone 13;		
Date T	Time	Location*	Observation	Avg (Range)	Туре	Тор (N	- E)	Bottom	(N - E)	Comments
2-Oct-201	12 (	General Comments: T	he river is dry or reduced to isolated po	ols over a 18,49 mile segr	ment in the Isleta Read	ch,				
	100	15 12 17	second segment of river is reduced to 0.8 mil 32.18). Total miles of river reduced to i otal river dry in the Isleta Reach, including the reduced to i otal river dry in the Isleta Reach, including the reduced to i otal river dry in the Isleta Reach, including the reduced to its reduced to its reduced to the reduced to t	les of river have rewet at I solated pools in this segm	the "top of drying". Bot nent are 5.23 miles.	tom of drying	in this seg	ment is 1,5	4 miles ups	tream of US 60 (RM
	4:55	Rio Grande 1,24 miles downstream of Peralta Main Wasteway (RM 151,26)	Bottom of river drying. No change from yesterday	0.00 (0 - 0)	Visual	4	~	3838399	340226	None
P	0000	Rio Grande 3.26 miles downstream of Hwy 346 (RN 137.41)	Top of discontinuous flow.  Since yesterday, some 0.08 miles of river have rewet at the "top of drying."	0,00 (0 - 0)	Visual	3820041	335465	-	-	None
										Site not observed this

Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate		SIS Coordinates 983, Zone 13)	
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

General Comments: The river is dry or reduced to isolated pools over a 18.23 mile segment in the Isleta Reach.

River is reduced to isolated pools over a12.79-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.03 miles upstream of Los Lunas Bridge (RM 164.4) to a point 0.89 miles downstream of Peralta Main Wasteway (RM 151.61).

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.06 miles downstream of Hwy 346 (RM 137.62). Since yesterday, some 0.21 miles of river have dried at the "top of drying", Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 5.44 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 18.23 miles. In total in the Isleta Reach, some 0.48 miles of river have rewet and .21 miles. of river have dried since yesterday.

10 40	Rio Grande 3.03 miles upstream of Los Lunas Bridge (RM 164.4)	Top of river drying. Since yesterday, some 0.13 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3857265	343069	-	-	None
8:45	Peralta Main Wasleway (RM 152.5)	Imigation system to river	0,00 (0 - 0)	Visual	-	-	-	-	None
8:55	Rio Grande 0.89 miles downstream of Peralta Main Wasteway (RM 151.61)	Bottom of river drying. Since yesterday, some 0.35 miles of river have rewet at the "bottom of drying."	0.00 (0 - 0)	Visual	-	~	3838922	340337	None
8:00	Rio Grande 3.06 miles downstream of Hwy 346 (RM 137.62)	Top of discontinuous flow. Since yesterday, some 0.21 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3820356	335453	8	-	None
0:00	Rio Grande 1,54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying. No change from yesterday	0.00 (0 - 0)	Visual	-	-	3812394	334463	Site not observed this date
7:30	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	2.50 (2 - 3)	Visual	-		~		None
	8:45 8:55 8:00	(RM 164.4)  8:45 Peralta Main Wasfeway (RM 152.5)  8:55 Rio Grande 0.49 miles downstream of Peralta Main Wasfeway (RM 151.61)  8:00 Rio Grande 3.06 miles downstream of Hwy 346 (RM 137.62)  0:00 Rio Grande 1.54 miles upstream of US 60 (RM 132.18)  7:30 Rio Grande at Hwy 60 (RM	upstream of Los Lunas Bridge (RM 164.4)  8:45 Peraita Main Wasteway (RM 152.5)  8:55 Rio Grande 0.89 miles downstream of Peraita Main Wasteway (RM 151.61)  8:00 Rio Grande 3.06 miles downstream of Hwy 346 (RM 137.62)  8:00 Rio Grande 1.54 miles upstream of US 60 (RM 132.18)  7:30 Rio Grande at Hwy 60 (RM Continuous flow Since yesterday some 0.21 miles of river have dried at the "top of drying."	upstream of Los Lunas Bridge (RM 164.4)  8:45 Peralta Main Wasteway (RM 152.5)  8:55 Rio Grande 0.89 miles downstream of Peralta Main Wasteway (RM 151.61)  8:00 Rio Grande 3.06 miles downstream of Hwy 346 (RM 137.62)  8:00 Rio Grande 1.54 miles upstream of US 60 (RM 132.18)  7:30 Rio Grande 1.54 miles upstream of US 60 (RM 132.18)  7:30 Rio Grande at Hwy 60 (RM Continuous flow 2.50 (2-3)	upstream of Los Lunas Bridge (RM 164.4)  9	upstream of Los Lunas Bridge (RM 164.4) yesterday, some 0.13 miles of river have rewet at the "top of drying."  8:45 Peralta Main Wasteway (RM 152.5) Irrigation system to river 0.00 (0 - 0) Visual — 152.5)  8:55 Rio Grande 0.89 miles downstream of Peralta Main Wasteway (RM 151.61) yesterday, some 0.35 miles of river have rewet at the "bottom of drying."  8:00 Rio Grande 3.06 miles downstream of Hwy 346 (RM 137.62) Top of discontinuous flow. Since yesterday, some 0.21 miles of river have dried at the "top of drying."  0:00 Rio Grande 1.54 miles presumed bottom of river drying. No change from yesterday  7:30 Rio Grande at Hwy 60 (RM Continuous flow 2.50 (2 - 3) Visual —	upstream of Los Lunas Bridge (RM 164.4)  yesterday, some 0.13 miles of river have rewet at the "top of drying."  Irrigation system to river 0.00 (0 - 0)  Visual — —  152.5)  Bits Rio Grande 0.89 miles downstream of Peralta Main Wasteway (RM 151.61)  Wasteway (RM 151.61)  Bottom of river drying. Since yesterday, some 0.35 miles of river have rewet at the "bottom of drying."  Find Rio Grande 3.06 miles downstream of Hwy 346 (RM 137.62)  Top of discontinuous flow. Since yesterday, some 0.21 miles of river have dried at the "top of drying."  Top of drying. O.00 (0 - 0)  Visual 3820356 335453 (and only only only only only only only only	upstream of Los Lunas Bridge (RM 164.4) yesterday, some 0.13 miles of river have rewet at the "top of drying."  8:45 Peralta Main Wasteway (RM 152.5) Irrigation system to river 0.00 (0 - 0) Visual — — — — — — — — — — — — — — — — — — —	upstream of Los Lunas Bridge (RM 164.4) vesterday, some 0.13 miles of river have rewet at the "top of drying."  8:45 Peralta Main Wasteway (RM 152.5) Irrigation system to river 0.00 (0 - 0) Visual — — — — — — — — — — — — — — — — — — —

Is	leta Reach		Estimated	Flow	River Drying G	IS Coordinates	
			Flow (cfs)	Estimate	(UTM NAD 1	983, Zone 13)	
Date Tin	ne Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

04-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 18.57 mile segment in the Isleta Reach.

River is reduced to isolated pools over a12.74-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 2.98 miles upstream of Los Lunas Bridge (RM 164.35) to a point 0.89 miles downstream of Peralta Main Wasteway (RM 151.61).

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.71 miles downstream of Hwy 346 (RM 138.01). Since yesterday, some 0.39 miles of river have dried at the "top of drying", Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 5.83 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 18.57 miles. In total in the Isleta Reach, some 0.05 miles of river have rewet and 0.39 miles of river have dried since yesterday.

3'40	Rio Grande 2.98 miles upstream of Los Lunas Bridge (RM 164.35)	Top of river drying. Since yesterday, some 0.05miles of river have rewet at the "top of	0.00 (0 - 0)	Visual	3857176	343076	-	-	None	
4:15	Peraita Main Wasleway (RM 152.5)	drying." Imigation system discharge to river	0.00 (0 - 0)	Visual	-	-	5	3	None	
4:30		Bottom of river drying. No change from yesterday	0.00 (0 - 0)	Visual	-	-	3838922	340337	None	
5:25	Rio Grande 2.71 miles downstream of Hwy 346 (RM 138,01)	Top of discontinuous flow. Since yesterday, some 0.39 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3821013	335292	-		None	
6:20	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying. No change from yesterday	0.00 (0 - 0)	Visual	~	~	3812394	334463	None	
6:50	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	1.50 (1 - 2)	Visual	-	-	-	=	None	

	Isle	ta Reach		Estimated	Flow	River Drying G	IS Coordinates	
	_			Flow (cfs)	Estimate	(UTM NAD 1	983, Zone 13)	
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

General Comments: The river is dry or reduced to isolated pools over a 19,39 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 13.05-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 2.83 miles upstream of Los Lunas Bridge (RM 164.2) to a point 1.27 miles downstream of Peralta Main Wasteway (RM 151.15).

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.23 miles downstream of Hwy 346 (RM 138.52). Since yesterday, some 0.51 miles of river have dried at the "top of drying", Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 6.34 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 19.39 miles. In total in the Isleta Reach, some 0.15 miles of river have rewet and 0.97 miles of river have dried since yesterday.

3.35	Rio Grande 2.83 miles upstream of Los Lunas Bridge (RM 164.2)	Top of river drying. Since yesterday, some 0.15 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3857086	343072	-	-	None
4:17	Peralta Main Wasleway (RM 152.5)	Imigation system discharge to river	0.00 (0 - 0)	Visual	-	-	-	-	None
4:34	Rio Grande 1.27 miles downstream of Peralta Main Wasteway (RM 151.15)	Bottom of river drying. Since yesterday, some 0.46 miles of river have dried at the "bottom of drying."	0.00 (0 - 0)	Visual	-	-	3838215	340087	None
5:39	Rio Grande 2,23 miles downstream of Hwy 346 (RM 138.52)	Top of discontinuous flow. Since yesterday, some 0.51 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3821772	335549	8		None
0:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying. No change from yesterday	0.00 (0 - 0)	Visual	-	-	3812394	334463	Site not observed this date
6:40	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	1,50 (1 - 2)	Visual	~		~	-	None

Is	slet	a Reach		Estimated	Flow	River Drying G	IS Coordinates	
	_			Flow (cfs)	Estimate	(UTM NAD 1	983, Zone 13)	
Date Ti	ime	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

06-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 19,19 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 12.95-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 2.63 miles upstream of Los Lunas Bridge (RM 164.2) to a point 1.15 miles downstream of Peralta Main Wasteway (RM 151.25). Since yesterday, some 0.10 miles of river have rewer at the "bottom of drying".

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2,25 miles downstream of Hwy 346 (RM 138.42). Since yesterday, some 0.10 miles of river have rewet at the "top of drying". Bottom of drying in this segment is 1,54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 6,24 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 19.19 miles. In total in the Isleta Reach, some 0.20 miles of river have rewet since yesterday.

4:40	Rio Grande 2.83 miles upstream of Los Lunas Bridge (RM 164.2)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3857086	343072	~	-	None
5:30	Peralta Main Wasleway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	-	-	None
5:45	Rio Grande 1.15 miles downstream of Peralta Main Wasteway (RM 151.25)	Bottom of river drying. Since yesterday, some 0.10 miles of river have rewet at the "bottom of drying."	0.00 (0 - 0)	Visual		-	3838331	340199	None
7:35	Rio Grande 2,25 miles downstream of Hwy 346 (RM 138.42)	Top of discontinuous flow. Since yesterday, some 0.10 miles of river have rewel at the "top of drying."	0.00 (0 - 0)	Visual	3821729	335508	8	8	None
9:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying.	0.00 (0 - 0)	Visual	=	-	3812394	334463	None
10:10	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	1,50 (1 - 2)	Visual	140	-2	~		None

Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying G (UTM NAD 1		
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

07-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 18,74 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 12.92-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 2.8 miles upstream of Los Lunas Bridge (RM 164.17) to a point 1.15 miles downstream of Peralta Main Wasteway (RM 151.25). Since yesterday, some 0.03 miles of river have rewet at the "top of drying".

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.74 miles downstream of Hwy 346 (RM 138). Since yesterday, some 0.42 miles of river have rewet at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 5.82 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 18.74 miles. In total in the Isleta Reach, some 0.45 miles of river have rewet since yesterday.

7:40	Rio Grande 2.8 miles upstream of Los Lunas Bridge (RM 164.17)	Top of river drying. Since yesterday, some 0.03 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3856941	343118	~	-	None
8:45	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	~	-	-	None
9:00	Rio Grande 1.15 miles downstream of Peralta Main Wasteway (RM 151.25)	Bottom of river drying	0.00 (0 - 0)	Visual	~	~	3838331	340199	None
10:10	Rio Grande 2.74 miles downstream of Hwy 346 (RM 138)	Top of discontinuous flow. Since yesterday, some 0.42 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820988	335303	=	P	None
11:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying.	0.00 (0 - 0)	Visual	-	-	3812394	334463	None
11:45	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	1,50 (1 - 2)	Visual	*		**3	-	None

Isleta Reach			Estimated Flow (cfs)		River Drying G		
Date Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

08-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 18,13 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 12,36-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 2.37 miles upstream of Los Lunas Bridge (RM 163,61) to a point 1.15 miles downstream of Peralta Main Wasteway (RM 151.25). Since yesterday, some 0.56 miles of river have rewet at the "top of drying".

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.85 miles downstream of Hwy 346 (RM 137.95). Since yesterday, some 0.05 miles of river have rewet at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total distance of river reduced to isolated pools in this segment is 5.77 miles.

132.18). Total distance of river reduced to isolated pools in this segment is 5.77 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 18.13 miles. In total in the Isleta Reach, some 0.61 miles of river have rewet since yesterday.

3:50	Rio Grande 2.37 miles upstream of Los Lunas Bridge (RM 163.61)	Top of river drying. Since yesterday, some 0.56 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3856071	343210	-	-	None
4:36	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	-	-	None
5:00	Rio Grande 1.15 miles downstream of Peralta Main Wasteway (RM 151.25)	Bottom of river drying. Unchanged from yesterday.	0.00 (0 - 0)	Visual	3838331	340199	-	0	None
5.45	Rio Grande 2,79 miles downstream of Hwy 346 (RM 137.95)	Top of discontinuous flow. Since yesterday, some 0.05 miles of river have rewel at the "top of drying."	0.00 (0 - 0)	Visual	3820904	335334	=	P	None
0:00	Rio Grande 1,54 miles upstream of US 60 (RM 132,18)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	-	-	3812394	334463	Site not observed this date

Isleta Reach			Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

09-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 21.17 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 15.6-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 5.46 miles upstream of Los Lunas Bridge (RM 166.85) to a point 1.15 miles downstream of Peralta Main Wasteway (RM 151.25). Since yesterday, some 3.24 miles of river have dried at the "top of drying".

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3,01 miles downstream of Hwy 346 (RM 137.75). Since yesterday, some 0.2 miles of river have rewet at the "top of drying". Bottom of drying in this segment is 1,54 miles upstream of US 60 (RM 132.18). Total distance of river reduced to isolated pools in this segment is 5,57 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 21.17 miles. In total in the Isleta Reach, some 0.2 miles of river have rewet since yesterday, and some 3.24 miles of river have dried since yesterday.

4:05	Rio Grande 5.46 miles upstream of Los Lunas Bridge (RM 166.85)	Top of river drying. Since yesterday, some 3.24 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3860982	343412	~	-	None
5:15	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	~		-	None
5:20	Rio Grande 1,15 miles downstream of Peralta Main Wasteway (RM 151,25)	Bottom of river drying. Unchanged from yesterday.	0.00 (0 - 0)	Visual	~	~	3838331	340199	None
5:52	Rio Grande 3.01 miles downstream of Hwy 346 (RM 137.75)	Top of discontinuous flow, Since yesterday, some 0.2 miles of river have rewel at the "top of drying."	0.00 (0 - 0)	Visual	3820641	335419	8	-	None
6:45	Rio Grande 1,54 miles upstream of US 60 (RM 132.18)	Bottom of river drying.	0.00 (0 - 0)	Visual	-	-	3812394	334463	None
7:00	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	1,50 (1 - 2)	Visual	-		~	-	None

	Isle	ta Reach	Reach Estimated Flow River Drying GIS Flow (cfs) Estimate (UTM NAD 1983					
Date	Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

10-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 21.54 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 15.92-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 5.67 miles upstream of Los Lunas Bridge (RM 167.17) to a point 1.15 miles downstream of Peralta Main Wasteway (RM 151.25). Since yesterday, some 0.32 miles of river have dried at the "top of drying".

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.99 miles downstream of Hwy 346 (RM 137.8). Since yesterday, some 0.05 miles of river have dried at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total distance of river reduced to isolated pools in this segment is 5.62 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 21.54 miles. In total in the Isleta Reach, some 0.37 miles of river have dried since yesterday.

4:0	Rio Grande 5.67 miles upstream of Los Lunas Bridge (RM 167,17)	Top of river drying. Since yesterday, some 0.32 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3861230	343696	~		None
3:50	Alejandro Wasteway (RM 166 63)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	-	-	None
3:40	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Flow estimate	0.00 (0 - 0)	Visual	-	~	-		None
5:10	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	_	_	-		None
.5:1	Rio Grande 1.15 miles downstream of Peralta Main Wasteway (RM 151.25)	Bottom of river drying. Unchanged from yesterday.	0,00 (0 - 0)	Visual		-	3838331	340199	None
6:0	5 Rio Grande 2.99 miles downstream of Hwy 346 (RM 137.8)	Top of discontinuous flow. Since yesterday, some 0.05 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3820737	335325	~	_	None
0:01	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	-	-	3812394	334463	Site not observed this date

ls	Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

11-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 21.69 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 16.08-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 5.83 miles upstream of Los Lunas Bridge (RM 167.33) to a point 1.15 miles downstream of Peralta Main Wasteway (RM 151.25). Since yesterday, some 0.16 miles of river have dried at the "top of drying".

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.0 miles downstream of Hwy 346 (RM 137.79). Since yesterday, some 0.01 miles of river have rewet at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total distance of river reduced to isolated pools in this segment is 5.61 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 21.69 miles. In total in the Isleta Reach, some 0.16 miles of river have dried since yesterday, and 0.01 miles or river have rewet

4:10	Rio Grande 5.83 miles upstream of Los Lunas Bridge (RM 167.33)	Top of river drying. Since yesterday, some 0.16 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3861462	343971	~	-	None
3:50	Alejandro Wasteway (RM 166 63)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	-	-	None
3:40	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Flow estimate	0.00 (0 - 0)	Visual	-	~	-	-	None
5:10	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	3.50 (3 - 4)	Visual	_	_	_		None
5:30	Rio Grande 1.15 miles downstream of Peralta Main Wasteway (RM 151.25)	Bottom of river drying. Unchanged from yesterday.	0.00 (0 - 0)	Visual		-	3838331	340199	None
6:11	Rio Grande 3.00 miles downstream of Hwy 346 (RM 137.79)	Top of discontinuous flow. Since yesterday, some 0.01 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820707	335343	~	_	None
0:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying.	0,00 (0 - 0)	Visual	-	-	3812394	334463	Site not observed this date
6:55	Rio Grande at Hwy 60 (RM 130,6)	Continuous flow	1.50 (1 - 2)	Visual	-	-	-	-	None

Isle	ta Reach		Estimated	Flow	River Drying G	SIS Coordinates	
			Flow (cfs)	Estimate	(UTM NAD 1		
Date Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

General Comments: The river is dry or reduced to isolated pools over a 21,47 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 15.92-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 5.76 miles upstream of Los Lunas Bridge (RM 167.22) to a point 1.2 miles downstream of Peralta Main Wasteway (RM 151.3). Since yesterday, some 0.11 miles of river have rewet at the

top of drying" and some 0.05 miles of river have rewet at the "bottom of drying."

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3,07 miles downstream of Hwy 346 (RM 137.73). Since yesterday, some 0.06 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 1,54 miles upstream of US 60 (RM 132.18). Total distance of river reduced to isolated pools in this segment is 5.55 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 21.47 miles. In total in the Isleta Reach, some 0.22 miles of river have rewet since

5:05	Rio Grande 5.76 miles upstream of Los Lunas Bridge (RM 167,22)	Top of river drying. Since yesterday, some 0.11 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3861311	343755	~	-	None
4:45	Alejandro Wasteway (RM 166.63)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	~	-	-	None
4:40	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Flow estimate	0.00 (0 - 0)	Visual	-	~	-	-	None
6:00	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	_	_	_		None
6:20	Río Grande 1,2 miles downstream of Peralta Main Wasteway (RM 151.3)	Bottom of river drying. Since yesterday, some 0.05 miles of river have rewet at the "bottom of drying,"	0.00 (0 - 0)	Visual	-	~	3838401	340231	None
7:25	Rio Grande 3.07 miles downstream of Hwy 346 (RM 137.73)	Top of discontinuous flow, Since yesterday, some 0.06 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820539	335428	8	-	None
8:05	Rio Grande 1,54 miles upstream of US 60 (RM 132.18)	Bottom of river drying	0,00 (0 - 0)	Visual	-	-	3812394	334463	None

	Isle	Flow (cfs) Estir	Flow Estimate	River Drying G				
Date	Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

13-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 21.29 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 15.83-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 5.73 miles upstream of Los Lunas Bridge (RM 167.13) to a point 1.2 miles downstream of Peralta Main Wasteway (RM 151.3). Since yesterday, some 0.09 miles of river have rewet at the top of drying."

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3,16 miles downstream of Hwy 346 (RM 137.64). Since yesterday, some 0.09 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total distance of river reduced to isolated pools in this segment is 5.46 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 21.29 miles. In total in the Isleta Reach, some 0.18 miles of river have rewet since yesterday.

8:00	Rio Grande 5.73 miles upstream of Los Lunas Bridge (RM 167.13)	Top of river drying. Since yesterday, some 0.09 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3861240	343702	~	-	None
8:10	Alejandro Wasteway (RM 166.63)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	-	-	None
8:15	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Flow estimate	0.00 (0 - 0)	Visual	-	~	-	~	None
9:00	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	_	-	_	None
9:15	Rio Grande 1.2 miles downstream of Peralta Main Wasteway (RM 151.3)	Bottom of river drying	0.00 (0 - 0)	Visual	144	-	3838401	340231	None
10:45	Rio Grande 3.16 miles downstream of Hwy 346 (RM 137.64)	Top of discontinuous flow. Since yesterday, some 0.09 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820473	335460	~	-	None
11:30	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying	0,00 (0 - 0)	Visual	-	-	3812394	334463	None

	Isleta Reach			Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

14-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 21,15 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 15.83-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 5,73 miles upstream of Los Lunas Bridge (RM 167.13) to a point 1.2 miles downstream of Peralta Main Wasteway (RM 151.3). No change since yesterday.

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.3 miles downstream of Hwy 346 (RM 137.5). Since yesterday, some 0.14 miles of river have rewet at the "top of drying," Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total distance of river reduced to isolated pools in this segment is 5.32 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 21.15 miles. In total in the Isleta Reach, some 0.14 miles of river have rewet since yesterday.

8:00	Rio Grande 5.73 miles upstream of Los Lunas Bridge (RM 167.13)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3861240	343702	-	-	None	
8:10	Alehandro Wasteway (RM 166,63)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	~		-	~	None	
8:15	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Flow estimate	0.00 (0 - 0)	Visual	*	-	#	-	None	
9:00	Peralta Main Wasteway (RM 152.5)	Impation system discharge to river	0.00 (0-0)	Visual	$\sim$	$\simeq$	~	=	None	
9:15	Rio Grande 1.2 miles downstream of Peralta Main Wasteway (RM 151.3)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual		-	3838401	340231	None	
10:45	Rio Grande 3.3 miles downstream of Hwy 346 (RM 137.5)	Top of discontinuous flow. Since yesterday, some 0.14 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820277	335492	•	9	None	
11:30	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	~	3812394	334463	None	
11:55	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	1.50 (1-2)	Visual	-	-	-	-	None	

ls	Isle	sleta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date	Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

15-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 19.93 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 14.63-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 5.73 miles upstream of Los Lunas Bridge (RM 167.13) to the confluence of the Peralta Main Wasteway (RM 152.5). Since yesterday, some 1.2 miles of river have rewet at the "bottom of drying."

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3,32 miles downstream of Hwy 346 (RM 137.48). Since yesterday, some 0.02 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 1,54 miles upstream of US 60 (RM 132.18). Total distance of river reduced to isolated pools in this segment is 5,3 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 19,93 miles. In total in the Isleta Reach, some 1,22 miles of river have rewet since yesterday.

5:10	Rio Grande 5.73 miles upstream of Los Lunas Bridge (RM 167.13)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3861240	343702	~		None
5:05	Alejandro Wasleway (RM 166.63)	Imigation system discharge to river	0,00 (0 - 0)	Visual	-	-	-	-	None
5:00	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Flow estimate	0,00 (0 - 0)	Visual	-	-	-		None
6:00	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	7,50 (5 - 10)	Visual	-	-	~	-	None
6:40	Rio Grande at the confluence of the Peralta Main Wasteway (RM 152.5)	Bottom of river drying. Some 1.2 miles of river have rewet at the 'bottom of drying.'	0.00 (0 - 0)	Visual	~	-	3840138	340117	None
7:45	Rio Grande 3,32 miles downstream of Hwy 346 (RM 137.48)	Top of discontinuous flow. Since yesterday, some 0.02 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820161	335519	-	-	None
0:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	~	-	3812394	334463	Site not observed this date
6:00	Rio Puerco at I-25 (RM 126.5)	Flow estimate	1240,00 (1240 - 1240)	Measured	-	-	~	-	USGS peak flow measured estimate

ls	sleta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date Ti	me Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

16-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 18.64 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 13,49-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3,73 miles upstream of Los Lunas Bridge (RM 165.13) to a point 0.86 miles downstream of

the Peralta Main Wasteway confluence with the Rio Grande(RM 151.64). Since yesterday, 2.0 miles of river have rewet at the "top of drying and 0.86 miles of river have dried at the "bottom of drying."

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.39 miles downstream of Hwy 346 (RM 137,33). Since yesterday, some 0.15 miles of river have rewel at the "top of drying." Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total distance of river reduced to isolated pools in this segment is 5.15 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 18.64 miles. In total in the Isleta Reach, some 2.15 miles of river have rewet since yesterday and 0.86 miles of river have dried since yesterday.

Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Flow estimate	8.50 (7 - 10)	Visual	-	-	~	-	None
Rio Grande 3,73 miles upstream of Los Lunas Bridge (RM 165,13)	Top of river drying, Some 2.0 miles of river have rewet at the "top of drying."	0,00 (0 - 0)	Visual	3858482	342854	-	-	None
Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	~	144	-	None
Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64)	Bottom of river drying. Since yesterday, 0.86 miles of river have dried at the "bottom of drying"	0.00 (0 - 0)	Visual		_	3838929	340346	None
Rio Grande at Hwy 346 (RM 140.8)	Flow estimate	6.00 (5 - 7)	Visual		-	=	$\rightarrow$	None
Rio Grande 3,39 miles downstream of Hwy 346 (RM 137,33)	Top of discontinuous flow. Since yesterday, 0.15 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3819977	335470	-	7	None
Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	> <del>05</del>	_	3812394	334463	Site not observed this date
	Farms Gauge (RM 166.1).  Rio Grande 3.73 miles upstream of Los Lunas Bridge (RM 165.13)  Peralta Main Wasteway (RM 152.5)  Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64)  Rio Grande at Hwy 346 (RM 140.8)  Rio Grande 3.39 miles downstream of Hwy 346 (RM 137.33)  Rio Grande 1.54 miles upstream of US 60 (RM	Farms Gauge (RM 166.1)  Rio Grande 3.73 miles upstream of Los Lunas Bridge (RM 165.13)  Peralta Main Wasteway (RM 152.5)  Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64)  Rio Grande at Hwy 346 (RM 140.8)  Rio Grande 3.39 miles downstream of Hwy 346 (RM 137.33)  Rio Grande 1.54 miles upstream of US 60 (RM	Farms Gauge (RM 166.1)  Rio Grande 3.73 miles upstream of Los Lunas Bridge (RM 165.13)  Peralta Main Wasteway (RM 152.5)  Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64)  Rio Grande at Hwy 346 (RM 140.8)  Rio Grande 3.39 miles downstream of Hwy 346 (RM 137.33)  Rio Grande 1.54 miles upstream of US 60 (RM 137.34)  Rio Grande 1.54 miles upstream of US 60 (RM 150.64)  Top of river drying. Since yesterday. 0.86 miles of river have dried at the "bottom of drying"  0.00 (0 - 0)  0.00 (0 - 0)  0.00 (0 - 0)  0.00 (0 - 0)  0.00 (0 - 0)  0.00 (0 - 0)  0.00 (0 - 0)	Farms Gauge (RM 166.1)  Rio Grande 3.73 miles upstream of Los Lunas Bridge (RM 165.13)  Peralta Main Wasteway (RM 152.5)  Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64)  Rio Grande at Hwy 346 (RM 140.8)  Rio Grande 3.39 miles downstream of Hwy 346 (RM 137.33)  Rio Grande 1.54 miles upstream of US 60 (RM)  Top of river drying. Since yesterday, 0.36 miles of river have dried at the "bottom of drying"  Top of discontinuous flow. Since yesterday, 0.15 miles of river have rewet at the "top of drying."  Visual 0.00 (0 - 0)   Farms Gauge (RM 166.1)  Rio Grande 3.73 miles upstream of Los Lunas Bridge (RM 165.13)  Peralta Main Wasteway (RM 152.5)  Rio Grande 0.86 miles downstream of the Peralta Main Wasteway on the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64)  Rio Grande at Hwy 346 (RM 140.8)  Rio Grande 3.39 miles downstream of Hwy 346 (RM 137.33)  Rio Grande 1.54 miles upstream of US 60 (RM Presumed bottom of river drying 0.00 (0 - 0)  Top of discontinuous flow. Since yesterday 0.15 miles of river have rewet at the "top of drying."  Nico Grande 1.54 miles upstream of US 60 (RM	Farms Gauge (RM 166.1)  Rio Grande 3.73 miles upstream of Los Lunas Bridge (RM 165.13)  Peralta Main Wasteway (RM 152.5)  Rio Grande 0.86 miles downstream of the Peralta Main Wasteway onfluence with the Rio Grande (RM 151.64)  Rio Grande at Hwy 346 (RM 140.8)  Rio Grande 3.39 miles downstream of Hwy 346 (RM 137.33)  Rio Grande 1.54 miles upstream of Hwy 346 (RM 137.33)  Rio Grande 1.54 miles upstream of US 60 (RM 137.33)  Persumed bottom of river drying. Since yesterday, 0.15 miles of river have rewet at the "bottom of drying"  Top of discontinuous flow. Since yesterday, 0.15 miles of river have rewet at the "top of drying."  Rio Grande 1.54 miles upstream of US 60 (RM	Farms Gauge (RM 166.1)  Rio Grande 3.73 miles upstream of Los Lunas Bridge (RM 165.13)  Peralta Main Wasteway (RM 152.5)  Rio Grande 0.86 miles downstream of the Peralta Main Wasteway on fluence with the Rio Grande (RM 181.64)  Rio Grande at Hwy 346 (RM 140.8)  Rio Grande 3.39 miles downstream of Hwy 346 (RM 137.33)  Rio Grande 1.54 miles upstream of US 60 (RM	Rio Grande 3.73 miles upstream of Los Lunas Bridge (RM 165.13)  Peralta Main Wasteway (RM 155.13)  Rio Grande 0.85 miles downstream of the Peralta Main Wasteway on the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64)  Rio Grande at Hwy 346 (RM 140.8)  Rio Grande 3.39 miles downstream of Hwy 346 (RM 140.8)  Rio Grande 1.54 miles downstream of Hwy 346 (RM 137.33)  Rio Grande 1.54 miles upstream of US 60 (RM 137.33)  Rio Grande 1.54 miles upstream of US 60 (RM 145.64)  Presumed bottom of river drying Since yesterday 0.00 (0 - 0)  Nisual 3858482 342854 — — — — — — — — — — — — — — — — — — —	

	Isle	ta Reach		Estimated	Flow Estimate	River Drying G		
	_			Flow (cfs)		(UTM NAD 1		
Date	Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

17-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 17.94 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 13.05-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.31 miles upstream of Los Lunas Bridge (RM 164.69) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande(RM 151.64). Since yesterday, 0.44 miles of river have rewet at the "top of drying".

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.71 miles downstream of Hwy 346 (RM

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.71 miles downstream of Hwy 346 (RM 137.07). Since yesterday, 0.26 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total distance of river reduced to isolated pools in this segment is 4,89 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 17.94 miles. In total in the Isleta Reach, some 0.7 miles of river have rewet since yesterday.

3:59	Rio Grande 3.31 miles upstream of Los Lunas Bridge (RM 164.69)	Top of river drying. Some 0.44 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3857793	343076	-	-	None
4:35	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	4	~	-		None
4:55	Rio Grande 0.86 miles downstream of the Peraita Main Wasteway confluence with the Rio Grande (RM 151.64)	Bottom of river drying. No change since yesterday	0.00 (0 - 0)	Visual	**	-	3838929	340346	None
530	Rio Grande 3,71 miles downstream of Hwy 346 (RM 137 07)	Top of discontinuous flow. Since yesterday, 0.26 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3819566	335468	=	2	None
0:00	Rio Grande 1,54 miles upstream of US 60 (RM 132,18)	Presumed bottom of river drying. No change since yesterday.	0,00 (0 - 0)	Visual	-	-	3812394	334463	Site not observed the date

Is	eta Reach		Estimated	Flow Estimate	River Drying G		
			Flow (cfs)		(UTM NAD 1		
Date Tim	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

18-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 16.99 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 12.16-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 2.6 miles upstream of Los Lunas Bridge (RM 163.8) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande(RM 151.64). Since yesterday, 0.71 miles of river have rewet at the "top of drying".

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.73 miles downstream of Hwy 346 (RM

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.73 miles downstream of Hwy 346 (RM 137.04). Since yesterday, 0.03 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 1.57 miles upstream of US 60 (RM 132.21). Total distance of river reduced to isolated pools in this segment is 4,83 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 16,99 miles. In total in the Isleta Reach, some 0.77 miles of river have rewet since yesterday.

4:07	Rio Grande 2.6 miles upstream of Los Lunas Bridge (RM 163.8)	Top of river drying. Some 0.71 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3856474	343156	-	-	None
1:50	Peralta Main Wasleway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	. =	-	None
5:10	Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151,64)	Bottom of niver drying. No change since yesterday.	0,00 (0 - 0)	Visual	-	-	3838929	340346	None
6:01	Rio Grande 3,73 miles downstream of Hwy 346 (RM 137.04)	Top of discontinuous flow. Since yesterday, 0.03 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3819488	335452	ď	9.1	None
6:31	Rio Grande 1.57 miles upstream of US 60 (RM 132.21)	Bottom of river drying. Since yesterday, 0.03 miles of river have rewet at the "bottom of drying,"	0.00 (0 - 0)	Visual	-	~	3812433	334398	None
7:03	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	1,50 (1 - 2)	Visual	-	-	-		None

	Isle	ta Reach	e e	Estimated Flow (cfs)	Flow Estimate		GIS Coordinates 1983, Zone 13)	
Date	Time		Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments
9-Oct-2	012	Seneral Comment	ts: The river is dry or reduced to isol	ated pools over a 16,73 mile seg	ment in the Isleta Read	ch.		
			River is reduced to isolated pools Lunas Bridge (RM 163.65) to a p miles of river have rewet at the "t A second segment of river is redu	oint 0.86 miles downstream of the op of drying". uced to isolated pools between H	Peralta Main Wastew wy 346 and US 60. To	vay confluence with th op of drying in this seg	e Rio Grande(RM 151.6 gment is 3,79 miles down	<ol> <li>Since yesterday nstream of Hwy 346</li> </ol>

Total distance of river reduced to isolated pools between may also do and use of river has segment is 3.79 miles downstream of US 60 (RM 132.21). Total distance of river reduced to isolated pools in this segment is 4.72 miles. In total in the Isleta Reach, including the two dry segments, is 16.73 miles. In total in the Isleta Reach, some 0.21 miles of river have rewet since vesterday.

3:56	Rio Grande 2,45 miles upstream of Los Lunas Bridge (RM 163,65)	Top of river drying. Since yesterday, 0.15 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3856147	343221	-	-	None
4:40	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	-	-	None
5:00	Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151,64).	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	ω.	3838929	340346	None
5:27	Rio Grande 3.79 miles downstream of Hwy 346 (RM 136,93)	Top of discontinuous flow. Since yesterday, 0.06 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3819333	335484	3	-	None
0:00	Rio Grande 1.57 miles upstream of US 60 (RM 132.21)	Presumed bottom of river drying. Unchanged from yesterday	0.00 (0 - 0)	Visual	-	~	3812433	334398	Site not observed the date

Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

20-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 15.77 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 11.92-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 2.36 miles upstream of Los Lunas Bridge (RM 163.56) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64). Since yesterday, 0.09 miles of river have rewet at the "top of drying".

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.91 miles downstream of Hwy 346 (RM

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.91 miles downstream of Hwy 346 (RM 136.81). Since yesterday, 0.12 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 3.85 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 15.77 miles. In total in the Isleta Reach, some 0.96 miles of river have rewet since yesterday.

4:09	Rio Grande 2.36 miles upstream of Los Lunas Bridge (RM 163.56)	Top of river drying. Since yesterday, 0.09 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3855987	343165	~	-	None	
4:59	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	~	-	-	None	
5:20	Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151,64).	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	~	3838929	340346	None	
6:01	Rio Grande 3.91 miles downstream of Hwy 346 (RM 136.81)	Top of discontinuous flow. Since yesterday, 0.12 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3819215	335400	5		None	
7:02	Rio Grande 2.27 miles upstream of US 60 (RM 132.96)	Bottom of river drying. Since yesterday, 0.75 miles of river have rewet at the "bottom of drying."	0.00 (0 - 0)	Visual	-	~	3813556	334406	None	
7:15	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	1.50 (1 - 2)	Visual	-	-	-	-	None	

Isle	eta Reach		Estimated Flow (cfs)	Flow Estimate Type	River Drying G (UTM NAD 1	
Date Time	Location*	Observation	Avg (Range)		Top (N - E)	Bottom (N - E)

21-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 15.5 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 11.76-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 2.2 miles upstream of Los Lunas Bridge (RM 163.4) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande(RM 151.64). Since yesterday, 0.16 miles of river have rewet at the "top of drying".

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.02 miles downstream of Hwy 346 (RM

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.02 miles downstream of Hwy 346 (RM 136.7). Since yesterday, 0.11 miles of river have rewet at the "top of drying," Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 3,74 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 15.5 miles. In (otal in the Isleta Reach, some 0.27 miles of river have rewet since yesterday.

0:00	Rio Grande 2,27 miles upstream of US 60 (RM 132,96)	Presumed bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	-	3813556	334406	Site not observed the date
6:23	Rio Grande 4.02 miles downstream of Hwy 346 (RM 136.7)	Top of discontinuous flow, Since yesterday, 0.11 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3819054	335298	-	=	None
7:10	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	4.00 (3 - 5)	Visual	-	~	-	÷	None
5:24	Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151,64)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	-	3838929	340346	None
4:57	Peraita Main Wasleway (RM 152.5)	Imigation system discharge to river	0.00 (0 - 0)	Visual	-	-	=		None
4:13	Rio Grande 2.2 miles upstream of Los Lunas Bridge (RM 163.4)	Top of river drying. Since yesterday, 0.16 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3855751	343144	-	_	None
									The state of the s

Isleta F		ta Reach	Estimated Flow		River Drying G		
			Observation	Flow (cfs)	Estimate Type	(UTM NAD 1	
Date T	Time	Location*		Avg (Range)		Top (N - E)	Bottom (N - E)

22-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 15,34 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 11.71-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 2.15 miles upstream of Los Lunas Bridge (RM 163.35) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64). Since yesterday, 0.16 miles of river have rewet at the "top of drying".

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.2 miles downstream of Hwy 346 (RM

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.2 miles downstream of Hwy 346 (RM 136.59). Since yesterday, 0.11 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 3,63 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 15.34 miles. In total in the Isleta Reach, some 0.16 miles of river have rewet since yesterday.

3:43	Rio Grande 2.15 miles upstream of Los Lunas Bridge (RM 163.35)	Top of river drying. Since yesterday, 0.05 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3855614	343097	~	-	None
4:29	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-			-	None
4:55	Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151,64).	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	~	3838929	340346	None
5:23	Rio Grande 4.2 miles downstream of Hwy 346 (RM 136,59)	Top of discontinuous flow. Since yesterday, 0.11 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3818832	335192	-	-	None
0:00	Rio Grande 2.27 miles upstream of US 60 (RM 132,96)	Presumed bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	~	~	3813556	334406	Site not observed this date

Is	Isleta Reach		Estimated		Flow	River Drying G		
				Flow (cfs)	Estimate	(UTM NAD 1		
Date Tir	ime	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

23-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 15.18 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 11.56-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 2.0 miles upstream of Los Lunas Bridge (RM 163.2) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande(RM 151.64). Since yesterday, 0.15 miles of river have rewet at the "top of drying".

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4,21 miles downstream of Hwy 346 (RM

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.21 miles downstream of Hwy 346 (RM 136.58). Since yesterday, 0.01 miles of river have rewel at the "top of drying." Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 3.62 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 15.18 miles. In total in the Isleta Reach, some 0.16 miles of river have rewet since yesterday.

3:41	Rio Grande 2.0 miles upstream of Los Lunas Bridge (RM 163.2)	Top of river drying. Since yesterday, 0.15 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3855451	343136	-	-	None
4:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-		-	None
4:50	Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151,64).	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	~	3838929	340346	None
5.40	Rio Grande 4.21 miles downstream of Hwy 346 (RM 136.58)	Top of discontinuous flow. Since yesterday, 0.01 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3818814	335186	-	-	None
0:00	Rio Grande 2.27 miles upstream of US 60 (RM 132.96)	Presumed bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	=	~	3813556	334406	Site not observed this date

	Isleta Reach			Estimated	Flow	River Drying G	
	_			Flow (cfs)	Estimate Type	(UTM NAD 1	
Date	Time	Location*	Observation	Avg (Range)		Top (N - E)	Bottom (N - E)

24-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 15.07 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 11.53-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 1.97 miles upstream of Los Lunas Bridge (RM 163.17) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64). Since yesterday, 0.03 miles of river have rewet at the "top of drying".

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.29 miles downstream of Hwy 346 (RM

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.29 miles downstream of Hwy 346 (RM 136.5). Since yesterday, 0.08 miles of river have rewet at the "top of drying," Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 3.54 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 15.07 miles. In total in the Isleta Reach, some 0.11 miles of river have rewet since yesterday.

3:50	Rio Grande 1.97 miles upstream of Los Lunas Bridge (RM 163.17)	Top of river drying. Since yesterday, 0.03 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3855326	343143	~	-	None
4:35	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	~	-	-	None
4:51	Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151,64).	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	~	3838929	340346	None
5.41	Rio Grande 4.29 miles downstream of Hwy 346 (RM 136.5)	Top of discontinuous flow. Since yesterday, 0.08 miles of river have rewet at the "top of drying."	0,00 (0 - 0)	Visual	3818732	335161	8	-	None
0:00	Rio Grande 2.27 miles upstream of US 60 (RM 132,96)	Presumed bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	~	3813556	334406	None

Is	Isleta Reach			Estimated		River Drying G	
	_			Flow (cfs)	Estimate Type	(UTM NAD 1	
Date Ti	ime	Location*	Observation	Avg (Range)		Top (N - E)	Bottom (N - E)

25-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 14.99 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 11.48-mile segment in the victnity of Isleta Diversion-Belen, extending south from a point 1.92 miles upstream of Los Lunas Bridge (RM 163.12) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64). Since yesterday, 0.05 miles of river have rewet at the "top of drying".

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.26 miles downstream of Hwy 346 (RM

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.26 miles downstream of Hwy 346 (RM 136.47). Since yesterday, 0.03 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 3.51 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 14.99 miles. In total in the Isleta Reach, some 0.08 miles of river have rewet since yesterday.

3:	<ol> <li>Rio Grande 1.92 miles upstream of Los Lunas Bridge (RM 163.12)</li> </ol>	Top of river drying. Since yesterday, 0.05 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3855205	343149	~	-	None
4:	25 Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	-	-	None
4:	45 Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151,64).	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	~	3838929	340346	None
5:	23 Rio Grande 4.26 miles downstream of Hwy 346 (RM 136.47)	Top of discontinuous flow. Since yesterday, 0.03 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3818663	335119	-	-	None
0:	OR Rio Grande 2.27 miles upstream of US 60 (RM 132,96)	Presumed bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	~	3813556	334406	Site not observed this date

	Isleta Reach		Estimated		Flow	River Drying G	
	_			Flow (cfs)	Estimate Type	(UTM NAD 1	
Date	Time	Location*	Observation	Avg (Range)		Top (N - E)	Bottom (N - E)

26-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 14.77 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 11.35-mile segment in the victnity of Isleta Diversion-Belen, extending south from a point 1.79 miles upstream of Los Lunas Bridge (RM 162.99) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64). Since yesterday, 0.13 miles of river have rewet at the "top of drying".

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.35 miles downstream of Hwy 346 (RM

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.35 miles downstream of Hwy 346 (RM 136.38). Since yesterday, 0.09 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 3.42 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 14,77 miles. In total in the Isleta Reach, some 0.22 miles of river have rewet since yesterday.

3:45	Rio Grande 1.79 miles upstream of Los Lunas Bridge (RM 162.99)	Top of river drying. Since yesterday, 0.13 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3855067	343183	~	-	None
4:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	~	-	-	None
4:50	Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151,64).	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	2	3838929	340346	None
5.19	Rio Grande 4.35 miles downstream of Hwy 346 (RM 136.38)	Top of discontinuous flow. Since yesterday, 0.09 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3818573	335060	~		None
0:00	Rio Grande 2.27 miles upstream of US 60 (RM 132,96)	Presumed bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	~	3813556	334406	Site not observed this date

Isle	ta Reach		Estimated Flow (cfs)	Flow Estimate	River Drying GIS Coordinates (UTM NAD 1983, Zone 13)		
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

27-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 14.4 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 11.12-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 1.56 miles upstream of Los Lunas Bridge (RM 162.76) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64). Since yesterday, 0.23 miles of river have rewet at the "top of drying".

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.49 miles downstream of Hwy 346 (RM

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.49 miles downstream of Hwy 346 (RM 136.24). Since yesterday, 0.14 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 3.28 miles.

Total river dry in the Islata Reach, including the two dry segments, is 14.4 miles. In (otal in the Islata Reach, some 0.37 miles of river have rewet since yesterday,

4.15	Rio Grande 1.56 miles upstream of Los Lunas Bridge (RM 162.76)	Top of river drying. Since yesterday, 0.23 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3854719	343299	-	-	None	
4:50	Peralta Main Wasleway (RM 152.5)	Imigation system discharge to river	11.00 (10 - 12)	Visual	*	-	=	3	None	
5:15	Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	-	3838929	340346	None	
6:15	Rio Grande 4.49 miles downstream of Hwy 346 (RM 136.24)	Top of discontinuous flow. Since yesterday, 0.14 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3818383	335005	-	9	None	
7:00	Rio Grande 2.27 miles upstream of US 60 (RM 132,96)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3813556	334406	~	_	None	
7:30	Rio Grande at Hwy 60 (RM 130,6)	Continuous flow	1.50 (1-2)	Visual	-	-	=	-	None	

Isleta Reach			Estimated Flow (cfs)	Flow Estimate	River Drying G (UTM NAD 1		
Date Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments
28-Oct-2012	General Commen	ts: The river is dry or reduced to isol River is reduced to isolated pools Lunas Bridge (RM 162.16) to a p miles of river have rewet at the "t A second segment of river is redu 136.12). Since yesterday, 0.12 n	over a 10,34-mile segment in the oint 0,58 miles downstream of the op of drying and 0,18 miles of riv aced to isolated pools between H	e vicinity of Isleta Diver Peralta Main Wastew er have rewet at the "b wy 346 and US 60. To	rsion-Belen, extending yay confluence with the pottom of drying". op of drying in this seg	e Rio Grande (RM 151.8	(2) Since yesterday,

4.05	Rio Grande 0.76 miles upstream of Los Lunas Bridge (RM 162.16)	Top of river drying. Since yesterday, 0.6 miles of river have rewel at the "top of drying,"	0.00 (0 - 0)	Visual	3853782	343500	-	-	None
5:06	Peralta Main Wasleway (RM 152,5)	Imigation system discharge to river	11.00 (10 - 12)	Visual	-	-	-	=	None
5:49	Rio Grande 0.58 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.82)	Bottom of river drying. Since yesterday, 0.18 miles of river have rewel at the "bottom of drying."	0.00 (0 - 0)	Visual	-	-	3839209	340357	None
7:15	Rio Grande 4.61 miles downstream of Hwy 346 (RM 136.12)	Top of discontinuous flow. Since yesterday, 0.12 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3818182	334983	-	4	None
0:00	Rio Grande 2.27 miles upstream of US 60 (RM 132.96)	Presumed bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	~	3813556	334406	Site not observed this date

Isle	eta Reach			River Drying GIS Coordinates (UTM NAD 1983, Zone 13)			
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

29-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 11,45 mile segment in the Isleta Reach.

River is reduced to isolated pools over a 8.44-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 0.45 miles downstream of Los Lunas Bridge (RM 160.94) to the confluence with Peralta Wasteway (RM 152.5). Since yesterday, 1.22 miles of river have rewet at the "top of drying" and 0.68 miles of river have rewet at the "bottom of drying".

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.83 miles downstream of Hwy 346 (RM 135.97). Since yesterday, 0.15 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 3.01 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 11.45 miles. In total in the Isleta Reach, 2.05 miles of river have rewel since yesterday,

Rio Grande 0.16 miles upstream of Los Lunas Bridge (RM 161.5)	Top of river drying	0,00 (0 - 0)	Visual	3852992	342963	-	-	None
Rio Grande 0,45 miles downstream of Los Lunes Bridge (RM 160.94)	Recently wetted riverbed observed at 04:15 hrs on 30-Oct-2012 is evidence that the river rewet to this point late in the day on 29-Oct-2012, i.e., that this became the furthest downstream point referred to as "Top of river drying". Therefore, since yeste	0.00 (0 - 0)	Visual	3852078	342548	~	~	Recently wetted riverbed observed at 04:15 hrs on 30-0ct-2012 is evidence that the river rewet to this point late in the day on 29-0ct-2012, i.e., that this became the furthest downstream point referred to as "Top of river drying".
Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	17.50 (15 - 20)	Visual	-	-	-	=	None
Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5)	Bottom of river drying. Since yesterday, 0.68 miles of river have rewet at the "bottom of drying."	0 00 (0 - 0)	Visual	+	-	3840138	340117	None
Rio Grande 4,83 miles downstream of Hwy 346 (RM 135,97)	Top of discontinuous flow. Since yesterday, 0.15 miles of river have rewet at the "top of drying,"	0.00 (0 - 0)	Visual	3817916	334965	9	-	None
Rio Grande 2,27 miles upstream of US 60 (RM 132.96)	Presumed bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	#	-	3813556	334406	Site not observed this date
	upstream of Los Lunas Bridge (RM 161.5)  Prio Grande 0.45 miles downstream of Los Lunas Bridge (RM 160.94)  Peralta Main Wasteway (RM 152.5)  Prio Grande at the confluence with Peralta Main Wasteway (RM 152.5)  Rio Grande 4.83 miles downstream of Hwy 346 (RM 135.97)  Rio Grande 2.27 miles upstream of US 60 (RM	upstream of Los Lunas Bridge (RM 161.5)  Rio Grande 0.45 miles downstream of Los Lunas Bridge (RM 160.94)  Recently wetted riverbed observed at 04.15 hrs on 30- Oct-2012 is evidence that the river rewet to this point late in the day on 29-Oct-2012, i.e., that this became the furthest downstream point referred to as "Top of river drying". Therefore, since yeste  Peralta Main Wasteway (RM 152.5)  Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5)  Rio Grande 4.83 miles downstream of Hwy 346 (RM 135.97)  Top of discontinuous flow Since yesterday, 0.15 miles of river have rewet at the "top of drying."  Presumed bottom of river drying. No change since	upstream of Los Lunas Bridge (RM 161.5)  Rio Grande 0.45 miles downstream of Los Lunas Bridge (RM 160.94)  Oct-2012 is evidence that the river rewel to this point late in the day on 29-Oct-2012, i.e., that this became the furthest downstream point referred to as "Top of river drying". Therefore, since yeste  Peralta Main Wasteway (RM 152.5)  Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5)  Rio Grande 4.83 miles downstream of Hwy 346 (RM Since yesterday, 0.68 miles of river have rewet at the "bottom of drying."  Top of discontinuous flow, Since yesterday, 0.15 miles of river have rewet at the "top of drying."  Rio Grande 2.27 miles upstream of US 60 (RM Presumed bottom of river drying. No change since	upstream of Los Lunas Bridge (RM 161.5)  Rio Grande 0.45 miles downstream of Los Lunas Bridge (RM 160.94)  Oct-2012 is evidence that the river rewel to this point late in the day on 29-Oct-2012, i.e., that this became the furthest downstream point referred to as "Top of river drying". Therefore, since yeste  Deralta Main Wasteway (RM 152.5)  Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5)  Rio Grande 4.83 miles downstream of Hwy 346 (RM 135.97)  Rio Grande 2,27 miles upstream of US 60 (RM  Presumed bottom of river drying. No change since  0.00 (0 - 0)  Visual 0.00 (0 - 0) Visual 0.00 (0 - 0) Visual 0.00 (0 - 0) Visual 0.00 (0 - 0) Visual 0.00 (0 - 0) Visual	upstream of Los Lunas Bridge (RM 161.5)  Rio Grande 0.45 miles downstream of Los Lunas Bridge (RM 160.94)  Oct-2012 is evidence that the river rewel to this point late in the day on 29-Oct-2012, i.e., that this became the furthest downstream point referred to as "Top of river drying". Therefore, since yeste  Defaults Main Wasteway (RM 152.5)  Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5)  Rio Grande 4.83 miles downstream of Hwy 346 (RM 135.97)  Rio Grande 2.27 miles upstream of US 60 (RM  Presumed bottom of river drying. No change since  0.00 (0 - 0)  Visual 3852078  0.00 (0 - 0)  Visual 3817916	upstream of Los Lunas Bridge (RM 161.5)  Rio Grande 0.45 miles downstream point referred to as "Top of river drying." Therefore, since yeste with Peralta Main Wasteway (RM 152.5)  Rio Grande 4.83 miles downstream of Hwy 346 (RM 155.97)  Rio Grande 2.27 miles upstream of US 60 (RM Presumed bottom of river giver)  Recently wetted riverbed observed at 04.15 hrs on 30-Oct-2012 is evidence that the river rewet to this point late in the day on 29-Oct-2012, i.e., that this became the furthest downstream point referred to as "Top of river drying." Therefore, since yeste 17.50 (15 - 20)  Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5)  Rio Grande 4.83 miles downstream of Hwy 346 (RM Since yesterday, 0.15 miles of river have rewet at the "bottom of drying."  Rio Grande 2.27 miles upstream of US 60 (RM Presumed bottom of river drying. No change since	upstream of Los Lunas Bridge (RM 161.5) Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5) Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5) Rio Grande 4.83 miles downstream of Hwy 346 (RM 135.97) Rio Grande 4.83 miles downstream of Hwy 346 (RM 135.97) Rio Grande 2.27 miles upstream of US 60 (RM 475 miles of river have rewet at the "top of drying." Recently wetted riverbed observed at 0.00 (0 = 0)  0.00 (0 = 0)  0.00 (0 = 0) Visual 3852078 342548  0.00 (0 = 0) Visual 3852078  0.00 (0 = 0) Visual 3852078  0.00 (0 = 0) Visual 3852078	upstream of Los Lunas Bridge (RM 161.5) Rio Grande 0.45 miles observed at 04.15 hrs on 30-Oct-2012 is evidence that the river rewel to this point late in the day on 28-Oct-2012, i.e., that this became the furthest downstream point referred to as "Top of river drying". Therefore, since yeste  Deralta Main Wasteway (RM 152.5) Rio Grande at the confluence with Peralta Main Westeway (RM 152.5) Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5) Rio Grande 4.83 miles downstream of Hwy 346 (RM 135.97) Rio Grande 2,27 miles upstream of US 60 (RM drying). No change since  Presumed bottom of river drying. No change since  0.00 (0 - 0) Visual 3852078 342548

Isle	sleta Reach		Estimated Flow (cfs)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13)		
Date Time	Location*	Observation	Avg (Range)		Top (N - E)	Bottom (N - E)	Comments

30-Oct-2012 General Comments: The river is dry or reduced to isolated pools over a 11.65 mile segment in the Isleta Reach.

River is reduced to isolated pools over an 8.98-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 0.11 miles upstream of Los Lunas Bridge (RM 161.48) to the confluence with Peralta Wasteway (RM 152.5). Since yesterday, 0.54 miles of river have dried at the "top of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 5.17 miles downstream of Hwy 346 (RM 135.63). Since yesterday, 0.34 miles of river have rewel at the "top of drying." Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 2.67 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 11.65 miles. In total in the Isleta Reach, 0.34 miles of river have rewet since yesterday and 0.54 miles of river dried since yesterday.

4:00	Rio Grande 0.11 miles upstream of Los Lunas Bridge (RM 161.48)	Top of river drying. Since yesterday, 0.54 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3852884	342897	-	-	None	
4:54	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	22.50 (20 - 25)	Visual	-		140	-	None	
4:55	Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5)	Bottom of river drying	0.00 (0 - 0)	Visual	**	-	3840138	340117	None	
5:52	Rio Grande 5.17 miles downstream of Hwy 346 (RM 135.63)	Top of discontinuous flow. Since yesterday, 0.34 miles of river have rewel at the "top of drying."	0.00 (0 - 0)	Visual	3817470	334754	A	=	None	
6:30	Rio Grande 2.27 mlles upstream of US 60 (RM 132.96)	Bottom of river drying. No change since yesterday.	0,00 (0 - 0)	Visual	-	-	3813556	334406	None	

Isleta Reach			Estimated Flow (cfs)	Flow Estimate	River Drying G (UTM NAD 1		
Date Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

River is reduced to isolated pools over an 9.06-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 0.33 miles downstream of Los Lunas Bridge (RM 161.05) to a point 0.46 miles downstream of the river's confluence with Peralta Wasteway (RM 151.99). Since yesterday, 0.43 miles of river have rewet at the "top of drying" and 0.51 miles of river have died at the "bottom of drying".

A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 5.61 miles downstream of Hwy 346 (RM 135.19). Since yesterday, 0.44 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96).

Total distance of river reduced to isolated pools in this segment is 2.23 miles.

Total river dry in the Isleta Reach, including the two dry segments, is 11,29 miles. In total in the Isleta Reach, 0.87 miles of river have rewel since yesterday and 0.51 miles of river dried since yesterday.

4.15	Rio Grande 0.33 miles downstream of Los Lunas Bridge (RM 161,05)	Top of river drying. Since yesterday, 0.43 miles of river have rewet at the "top of drying,"	0.00 (0 - 0)	Visual	3852240	342640	-	-	None
5:00	Peralta main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	-	-	-	-	None
5:25	Rio Grande 0.46 miles downstream of the river's confluence with Peralta Main Wasteway (RM 151.99)	Bottom of river drying. Since yesterday, 0.51 miles of river have dried at the "bottom of drying."	0.00 (0 - 0)	Visual	-	~	3839410	340401	None
6:15	Rio Grande 5,61 miles downstream of Hwy 346 (RM 135,19)	Top of discontinuous flow. Since yesterday, 0.44 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3816818	334470	-	3	None
0:00	Rio Grande 2:27 miles upstream of US 60 (RM 132:96)	Presumed bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	-	-	3813556	334406	Site not observed this date

San A	Acacia Reach	Observation	Estimated Flow (cfs)	Flow Estimate	River Drying GIS Coordinates (UTM NAD 1983, Zone 13)				
Date Tim	e Location*		Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
7-May-2012	General Comments:	w in the main river channel is	believed to be continuous through	rout the San Acacia Rea	ach based o	on USGS i	internet postin	gs of flow	and field observations.
0:0	0 General comment (RM 0)	Continuous flow	NA	Not available/applicable	-	-	-	=	None
8-May-2012	General Comments:	w in the main river channel is	believed to be continuous through	rout the San Acacia Rea	ach based o	on USGS	nternet postin	gs of flow	and field observations.
21:0	O Rio Grande at San Acadia (RM 116)	Continuous flow	300.00 (300 - 300)	Visual	œ.		-	-	None
	Rio Grande al Hwy 380 (RM	Continuous flow	325.00 (300 - 350)	Visual					Flow dropped to 280 of

Sa	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate	River D	rying G M NAD 19		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom (N -	E) Comments
9-May-2	2012	General Comments:			and and				
		Flow	in the main river channel is	believed to be continuous throughou	t the San Acadia R	each based	on USGS	internet postings of	flow and field observations.
		Rio Grande at San Acada (RM 116)	Continuous flow	379 (00 (379 - 379)	Measured	***	-		Beginning stage (inside) = 10.78; Ending stage (inside) = 10.76. Measured cells = 15; ligh rain
		Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	300.00 (300 - 300)	Visual	-	1000		None
	April 1	Rio Grande 750 ft upstream of South Boundary Bosque del Apache Refuge (RM 73.9)	Continuous flow	200.00 (200 - 200)	Visual	-	-		None
		Rio Grande at San Marcial (RM 68.6)	Continuous flow	150,00 (150 - 150)	Visual	=	-	-	None
		Rio Grande at San Marcial (RM 68.6)	Continuous flow	178.90 (178.8 - 179)	Measured	~	~	181	Beginning stage (inside) = 15.23; Ending stage (inside) = 15.24. Measured cells = 19
-May-2	2012	General Comments:	7 - 4 - 3		0747.		7		4.14.7.1.7
		Flow	in the main river channel is	believed to be continuous throughou	t the San Acacia R	each based o	on USGS i	internet postings of	flow and field observations.
		Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	300,00 (300 - 300)	Visual		$\langle - \rangle$		None
		Rio Grande at North Boundary Bosque del Apache (RM 84)	Continuous flow	325.00 (325 - 325)	Visual	-	=	8 -	None

Sa	ın A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			IS Coordinate 83, Zone 13)	25	
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom (N	- E)	Comments
1-May-2	2012	General Comments:	Flow in the main river channel is	s believed to be continuous throu	ghout the San Acacia Re	ach based or	n USGS	internet postings.	of flow	and field observations
	11:45	Rio Grande at Escondida (I 104.8)	RM Continuous flow	NA	Not aväilable/applicable	-	>==	-		Inside stage = 26.53; outside stage = 26.58
3-May-2	2012	General Comments:	Flow in the main river channel is	s believed to be continuous throu	ghout the San Acacia Re	ach based or	n USGS	internet postings	of flow	and field observalions
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	=		8	_	None
t-May-2	2012	General Comments:	Flow in the main river channel is	s believed to be continuous throu	ghout the San Acacia Re	ach based o	n USGS	internel postings	of flow	and field observations
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	-	-	-	-	None
5-May-3	2012	General Comments:	Flow in the main river channel is	s believed to be continuous throu	ghout the San Acacia Re	ach based or	n USGS i	inlernet postings	of flow	and field observations
	0;00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	-	~	-	_	None

San A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 83, Zone 13)		
ate Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
-May-2012	General Comments:	in the main river channel is	believed to be continuous througho	ut the San Acacia R	each based	on USGS i	internet postir	ngs of flow	and field observations
7:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	300 00 (300 - 300)	Visual	100	-		HH1	None
-May-2012	General Comments:	57.71							7. 07.
	Flow	in the main river channel is	believed to be continuous througho	ut the San Acacia R	each based	on USGS	nternet postir	ngs of flow	and field observations
12:30	Rio Grande at San Acada (RM 116.2)	Continuous flow	290,00 (290 - 290)	Visual	0	$\simeq$	~	-	None
13:30	Rio Grande at Escondida Bridge (RM 104.8)	Continuous flow	300.00 (300 - 300)	Visual	-	-	-		Inside stage = 26.51; outside stage = 26.54
9:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	250,00 (250 - 250)	Visual	100	-	-	-	None
-May-2012	General Comments:								
	Flow	in the main river channel is	believed to be continuous througho	ut the San Acacia R	each based	on USGS i	nternet postir	ngs of flow	and field observations
6:00	Rio Grande at San Acada (RM 116.2)	Continuous flow	275 00 (250 - 300)	Visual	-	-	-	-	None
16:00	Rio Grande at San Acacla (RM 116.2)	Continuous flow	287.50 (275 - 300)	Visual	=	=	=	-	None
5:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	300.00 (300 - 300)	Visual	-	Carl	=	=	None
16:45	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	275,00 (275 - 275)	Visual	-	-	~	~	None
5:00	Rio Grande at North Boundary Bosque del Apacie (RM 84.2)	Continuous flow	325,00 (325 - 325)	Visual	-	-	-	-	None

Sa	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			IS Coordii 83, Zone 13		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	I - E)	Bottom	(N - E)	Comments
1-May-2	2012	General Comments:	in the main river channel is continu	ious throughout the San Ac	aria Reach Mostly ov	ercast with	eveninor	ain vesterday	and today	Note: Two flow
			surements conducted today at Sou					ani yesterday	uno issas y	, read, rive non
	6.45	Neil Cupp pump site (RM 90.5)	2 pumps are discharging	18,00 (18 - 18)	Visual	-	~	-	-	None
	10:30	Neil Cupp pump site (RM 90.5)	Pumps are shut off	NA	Not available/applicable	-	-	-	~	None
	7:00	Rio Grande at US Highway 380 (RM 87.1)	Measurement conducted between 07:00 and 08:30 am; discharge = 266.46 cfs	266,23 (266,46 - 266)	Measured	-	_	-	-	USGS website read 27 cfs
	6:30	North Boundary - BDA pump site (RM 84.2)	2 pumps are discharging.	18.00 (18 - 18)	Visual	-	-	$\sim$	-	None
	9:00	North Boundary - BDA pump site (RM 84.2)	Pumps are shut off	NA	Not available/applicable	-	-	-		None
	4:30	Rio Grande at South Boundary - BDA pump site (RM 74)	Measurement conducted between 04:30 and 06:00 am, discharge = 136.39 cfs	136.20 (136.39 - 136)	Measured	-	-	$\sim$	9	None
2-May-2	2012	General Comments:								
		Flow	in the main river channel is continu	ious throughout the San Aca	acia Reach.					
	6:00	Rio Grande at US 360 (RM 87.1)	continuous flow	200.00 (200 - 200)	Visual	~		-	-	None
	18:00	Rio Grande at US 380 (RM 87.1)	continuous flow	212,50 (200 - 225)	Visual	-	~	-		None
	13:30	Rio Grande at South Boundary - BDA (RM 74)	Continuous flow	NA	Not available/applicable	-	-	-	-	None
	11:30	Rio Grande at San Marcial (RM 68.6)	Measurement conducted 11:30 - 12:30 pm, discharge = 79.56	79.56 (79.56 - 79.56)	Measured	-	-	Θ.	-	Inside stage = 14.88 ft personnel: Greg Parga and Anders Lundahl

Sa	ın A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			IS Coordinates 983, Zone 13)	
Date	Time	Location*	Observation	Avg (Range)	Type	Top (N	- E)	Bottom (N -	E) Comments
3-May-	2012	General Comments:	in the main river channel is continu	rous throughout the San Aca	acia Reach.				
	8;00	Rio Grande at US 380 (RM 87.1)	continuous flow	200 00 (200 - 200)	Visual	-	)-ex	b	None
	18:00	Rio Grande at US 380 (RM 87.1)	Continuous flow	200.00 (200 - 200)	Visual	-	~		None
	6:30	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	continuous flow	87,50 (75 - 100)	Visual	-	9	-	None
	7:00	Rio Grande at South Boundary - BDA (RM 74)	Continuous flow	112,50 (100 - 125)	Visual	-	-	-	None
	17:00	Rio Grande at South Boundary - BDA (RM 74)	Continuous flow	NA	Not available/applicable	-	-		3 pumps in operatio
	14:00	Rio Grande at San Marcial (RM 68.6)	Measurement conducted 14:45 - 15:39 hrs; discharge = 66.141 cfs	66,12 (66,141 - 66,1)	Measured	-	-	18	None
4-May-2	2012	General Comments:							
		Flow	in the main river channel is believe	ed to be continuous througho	out the San Acacia Rea	ach based o	on USGS	internet postings o	flow and field observation
	14:30	Rio Grande downstream of San Acacia Diversion (RM 116.2)	Continuous flow	152,50 (150 - 155)	Visual	~	-		Inside-stage 9:93
	6:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	87,50 (75 - 100)	Visual	$\Xi$	-		None
	7:00	Rio Grande 750 ft upstream of South Boundary Bosque del Apache Refuge (RM 73.9)	Continuous flow	127,50 (125 - 130)	Visual	-	-	- 8	None

-	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordi 83, Zone 13		
Date	Time	Location*	Observation	Avg (Range)	Type	Top (N	- E)	Bottom	(N - E)	Comments
0-May-	2012	General Comments: Flo	w in the main river channel is	believed to be continuous throughout	the San Acadia R	each based o	on USGS i	nternet posti	ngs of flow	and field observations.
	9.30	Rio Grande at Hwy 380 (RM -87.1)	Continuous flow	110.00 (110 - 110)	Visual	lee-	l-ex	-	jeek!	None
	8:30	Rio Grande at San Marcial (RM 68.5)	Continuous flow	54.00 (54 - 54)	Visual	-	-	$\sim$	-	None
			to the college of the factor of the college of the factor							
	10:00	Flo Rio Grande at f US Hwy 380 (RM 87.1)	w in the main river channel is  Continuous flow	believed to be continuous throughout 94,52 (94,52 - 94,52)	the San Acacia R  Measured	each based o	on USGS i	nternet posti	ngs of flow	Internet posting at time of
ri Jun-i	400	Rio Grande at f US Hwy 380 (RM 87.1) General Comments:	Continuous flow		Measured	-	-	-	3	Internet posting at time o measurement was 76 cfs

Sa	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			IS Coordin 83, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Type	Top (N	- E)	Bottom	(N - E)	Comments
12-Jun-2	012	General Comments: Flo	w in the main river channel is	believed to be continuous througho	ut the San Acadia R	each based	on USGS	internet postir	ngs of flow	and field observation
		Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	105.00 (100 - 110)	Visual	***	-		-	None
	12:00	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	30,00 (30 - 30)	Visual	~	~	8	-	None
)3-Jun-2	012	General Comments:		to a sit American State of State of	16.18.1.6.18.1	3.6	ladick.			- allera villa
		Flo	w in the main river channel is	believed to be continuous througho	ut the San Acacia R	each based	on USGS	internet postir	igs of flow	and field observation
	14:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	105.00 (100 - 110)	Visual	-	~	~	~	None
	12:30	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	30,00 (30 - 30)	Visual	-	-	-	-	None
	12:00	Rio Grande at Bosque del Apache Refuge River Widening Site (RM 77)	Continuous flow	25,00 (25 - 25)	Visual	-		-		None
14-Jun-2	012	General Comments:								
		Flo	w in the main river channel is	believed to be continuous througho	ut the San Acadia R	each based	on USGS	internet postir	igs of flow	and field observation
	7:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	100.00 (100 - 100)	Visual	-	-	-	=	None
	6.45	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	30.00 (30 - 30)	Visual	-	~	-	-	None
	6:00	Rio Grande at Bosque del Apache Refuge River Widening Site (RM 77)	Continuous flow	27.50 (25 - 30)	Visual	-	$\rightarrow$	-	$\rightarrow$	None

Sa	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordii 83, Zone 13		
Date	Time	Location*	Observation	Avg (Range)	Type	Top (N - E) Bottom (N - E		(N - E)	) Comments	
5-Jun-20	012	General Comments:	w in the main giver channel is	believed to be continuous througho	out the San Araria P	each hased o	n USGS	nternet nosti	nas of flow	and field observation
				believed to be continuous initiougho	AUT THE DOI! HEADING IN	cacii Dascu c	W1 0000		HIGA OF HOM	Blid liela crisel sati
		(45)								
		Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	95,00 (90 × 100)	Visual	-		-	_	None
	8:45	Rio Grande at Hwy 380 (RM		95,00 (90 × 100) 30,00 (30 - 30)	Visual Visual	-	-	-	1	None None

San Acacia Reach		1	Estimated Flow (cfs)	Flow Estimate	River Drying C		
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

Flow in the main river channel is believed to be continuous throughout the San Acada Reach based on USGS internet postings of flow and field observations.

4:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	85.00 (80 ~ 90)	Visual	interest				None
16:20	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	85.00 (85 - 85)	Visual	-	~	-	-	None
5:00	Rio Grande at upstream North Boundary Bosque del Apache (RM 84.2)	Continuous flow	77.50 (75 - 80)	Visual	-	_	-	9	None
7:00	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	27,50 (25 - 30)	Visual	-	-	-	-	None
13:50	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	25.00 (25 - 25)	Visual	-	-	-	~	None
6:30	Rio Grande at Bosque del Apache Refuge River Widening Site (RM 77)	Centinuous flow	30.00 (30 - 30)	Visual	-	-	-	-	None
14:20	Rio Grande at Bosque del Apache Refuge River Widening Site (RM 77)	Continuous flow	30,00 (30 - 30)	Visual	0	-	-	-	None
14:36	Rio Grande 750 ft upstream of South Boundary Bosque del Apache Refuge (RM 73.9)	Continuous flow	17,50 (15 - 20)	Visual	-	-	-	-	None

San Acacia Reach		1	Estimated Flow (cfs)	Flow Estimate	River Drying C		
Date Tim	e Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

Flow in the main river channel is believed to be continuous throughout the San Acada Reach based on USGS internet postings of flow and field observations.

8:00	Río Grande 750 ft upstream of South Boundary Bosque del Apache Refuge (RM 73.9)	Continuous flow	17.50 (15 - 20)	Visual	-	-	-	_	None
7:30	Rio Grande at Bosque del Apache Refuge River Widening Site (RM 77)	Continuous flow	25.00 (25 - 25)	Visual	-	-	-	~	None
17:00	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	47.17 (47.17 - 47.17)	Measured	-	-	-	~	None
7:00	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	25,00 (25 - 25)	Visual	0		~	-	None
6:30	Rio Grande upstream of North Boundary Bosque del Apache (RM 84.2)	Continuous flow	70.00 (70 - 70)	Visual	-	-	-	9	None
11:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	61.15 (61.15 - 61.15)	Measured	-	-	-	3	7 cells; USGS reading at this time = 62.0 cfs
4:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	75.00 (70 - 80)	Visual	100			Here	None

Sa	San Acacia Reach				Flow Estimate		-	IS Coordii 83, Zone 13		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
3-Jun-2	012	General Comments:	-	and the second second	OF A SEC					
		Flow	vin the main river channel is	believed to be continuous through	out the San Acacia R	each based	on USGS	internet posti	ngs of flow	and field observations
	5;30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	65,00 (60 × 70)	Visual		-		-	None
	10:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	60.00 (60 - 60)	Visual	-	~	=	-	None
	7:00	Rio Grande upstream of North Boundary Bosque del Apache (RM 84.2)	Continuous flow	55.00 (50 = 60)	Visual	-	~		9	None
	6:00	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	25,00 (25 - 25)	Visual	-	-	-	-	None
	6:30	Rio Grande 750 ft upstream of South Boundary Bosque del Apache Refuge (RM 73.9)	Continuous flow	17.50 (15 - 20)	Visual	-	$\sim$	-	$\neg$	None

San Acacia Reach			Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

Flow in the main river channel is believed to be continuous throughout the San Acada Reach based on USGS internet postings of flow and field observations.

20:30	Rio Grande at Brown Arroyo (RM 94.1)	Continuous flow	67.50 (60 × 75)	Visual	inter .	-		-	None
20:15	Rio Grande at Neil Cupp (RM 90.5)	Continuous flow	70.00 (65 - 75)	Visual	-	~		=	No pumps running
5:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	60.00 (60 - 60)	Visual	-	-	-	=	None
19:44	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	65.00 (60 - 70)	Visual	-	-	-	~	None
7:00	Rio Grande upstream of North Boundary Bosque del Apache Refuge (RM 84.2)	Continuous flow	55.00 (50 - 60)	Visual	-	-	-	=	None
7:01	North Boundary Bosque del Apache pump site (RM 84.2)	Pump site discharge	30,00 (30 - 30)	Visual	-	-	$\sim$	-	None
7:45	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	30.00 (30 - 30)	Visual	-	~	=	3	None
6:30	Rio Grande at River Widening (RM 77)	Continuous flow	25,00 (20 - 30)	Visual	-	-	$\sim$	-	None
7:30	Rio Grande 750 ft upstream of South Boundary Bosque del Apache (RM 73.9)	Continuous flow	NA	Not available/applicable	-	-	$\sim$	$\exists$	None

San Acacia Rea		<b>N</b> ,	Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

Flow in the main river channel is believed to be continuous throughout the San Acadia Reach based on USGS internet postings of flow and field observations.

5:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	60.00 (60 - 60)	Visual	-	-		1 2000	None	
20:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	60.00 (60 - 60)	Visual	-	$\sim$	$\sim$		None	
7:00	Rio Grande upstream of North Boundary Bosque del Apache (RM 84.2)	Continuous flow	52.50 (50 - 55)	Visual	-	_	$\sim$	9	None	
19:56	Rio Grande upstream of North Boundary Bosque del Apache (RM 84 2)	Continuous flow	60,00 (60 - 60)	Visual	-	-	_	3	None	
19:57	North Boundary Bosque del Apache pump site (RM 84.2)	Three pumps running; pump site discharge to river	35.00 (35 - 35)	Visual	-	$\overline{}$	-	~	None	
18:00	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	40,00 (40 - 40)	Visual	-	~	4	-	None	
18:25	Rio Grande at River Widening (RM 77)	Continuous flow	27.50 (25 - 30)	Visual	-	-	-		None	
19:15	Rio Grande 750 ft upstream of South Boundary Bosque del Apache (RM 73.9)	Continuous flow	NA	Not available/applicable	-	-	~	3	None	

San Acacia Reach			Estimated Flow (cfs)	Flow Estimate	River Drying GIS Coordinates (UTM NAD 1983, Zone 13)				
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
Jun-2012	General Comments:			OR A WAY					
	Flow	in the main river channel is believe	ed to be continuous through	out the San Acadia R	each based o	on USGS	nternet posti	ngs of flow	and field observation
5:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	60.00 (60 - 60)	Visual	i des		-	-	None
5:30	Rio Grande upstream of North Boundary Bosque del Apache (RM 84.2)	Continuous flow	55.00 (55 - 55)	Visual	~	-	8		None
5.3	North Boundary Bosque del Apache pump site (RM 84.2)	Three pumps running; Pump site discharge to river	35 00 (35 - 35)	Visual	$\overline{}$	=	-	-	None
5:45	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	42,50 (40 - 45)	Visual	-	-	-	=	None

35.00 (35 - 35)

27.50 (20 - 35)

5:00 Rio Grande at River Widening Continuous flow (RM 77)

19:15 Rio Grande 750 ft upstream of Continuous flow South Boundary Bosque del Apache (RM 73.9)

Visual

Visual

None

None

San Acacia Reach		10	Estimated Flow (cfs)		River Drying G		
Date Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

Flow in the main river channel is believed to be continuous throughout the San Acada Reach based on USGS internet postings and site-specific observations.

5:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	60,00 (60 - 60)	Visual	1990	)-ee-	-	l	None
19:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	60.00 (55 - 65)	Visual	-	-	3	~	None
6:30	Rio Grande just upstream of the North Boundary Bosque del Apache Refuge pump site (RM 84.2)	Continuous flow	55,00 (55 - 55)	Visual	-	9	3	9	None
7:00	North Boundary Bosque del Apache Refuge pump site (RM 84.2)	Pump operations	35.00 (35 - 35)	Visual	-	~	94	~	3 pumps operating
19:20	Rio Grande just upstream of the North Boundary Bosque del Apache Refuge pump site (RM 84.2)	Continuous flow	50.00 (50 - 50)	Visual	-	,	$\simeq$	9	None
19:30	North Boundary Bosque del Apache Refuge pump site (RM 84.2)	Pump operations	40.00 (40 - 40)	Visual	-	=	=	-	3 pumps operating
6:00	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	42.50 (40 - 45)	Visual	-	-	-	~	None
5:45	Rio Grande at Bosque del Apache Refuge River Widening Site (RM 77)	Continuous flow	35.00 (35 - 35)	Visual	-	=	-	-	None

San Acacia Reach			Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

Flow in the main river channel is believed to be continuous throughout the San Acada Reach based on USGS internet postings and site-specific observations.

5:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	57.50 (55 - 60)	Visual	-	1	-	l-wi	None
14:30	Rio Grande at Hwy 380 (RM 87,1)	Continuous flow	62.50 (60 - 65)	Visual	-	-	-	-	None
5:38	North Boundary of Bosque del Apache Refuge pump site (RM 84.2)	Pump operations	33,00 (33 - 33)	Visual	-	9	-	9	3 pumps operating; pump channel staff 0.80; impeller housing partially exposed.
8:00	Rio Grande just upstream of the North Boundary of Bosque del Apache Refuge pump site (RM 84.2)	Continuous flow	47.50 (40 = 55)	Visual	-	~	2	-	None
14:45	Rio Grande just upstream of the North Boundary of Bosque del Apache Refuge pump site (RM 84.2)	Continuous flow	57.50 (55 - 60)	Visual		240	-	-	None
15:00	North Boundary of Bosque del Apache Refuge pump site (RM 84.2)	Pump operations	25,00 (25 - 25)	Visual	(=)	~	-	3	2 pumps operating
6:38	Rio Grande at Bosque del Apache Refuge Headquarters (RM 78.75)	Continuous flow	42.50 (40 - 45)	Visual	-	-	-	=	None
6:58	Rio Grande at Bosque del Apache Refuge River Widening Site (RM 77)	Continuous flow	35.00 (35 - 35)	Visual	-	-	-	-	None
8:00	Rio Grande 750 ft upstream of South Boundary Bosque del Apache Refuge (RM 73.9)	Continuous flow	27:50 (25 - 30)	Visual	=	-	-	-	None

San Acacia Reach			Estimated Flow (cfs)	Flow Estimate	River Drying G		
Date Time	Location*	Observation	Avg (Range)	Туре	Top (N - E)	Bottom (N - E)	Comments

Flow in the main river channel is believed to be continuous throughout the San Acada Reach based on USGS internet postings and site-specific observations.

14:18	Rio Grande at Otero Street (RM 99.2)	Continuous flow	150 00 (150 - 150)	Visual		1	-	l	None
14:30	Rio Grande 1.0 miles upstream of Brown Arroyo (RM 95.1)	Continuous flow	150,00 (150 - 150)	Visual	~	~	=	==	None
14.45	Rio Grande at Brown Arroyo (RM 94.1)	Continuous flow	150.00 (150 - 150)	Visual	-	-	-	$\rightarrow$	None
15:00	Rio Grande at Neil Cupp (RM 90,5)	Continuous flow	90.00 (80 - 100)	Visual	-	-		-	None
6:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	57.50 (55 - 60)	Visual	-	-	-	-	None
15:45	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	62,00 (62 - 62)	Visual	-	-	-	_	None
6:20	North Boundary Bosque del Apache pump site (RM 84.2)	Pump operations	27.50 (25 - 30)	Visual	-	-	-	=	2 pumps operating; pump channel staff = 0.71.
6:30	Rio Grande just upstream of the North Boundary Bosque del Apache pump site (RM 84.2)	Continuous flow	45.00 (40 - 50)	Visual	-	~	-	-	None
15:20	North Boundary Bosque del Apache pump site (RM 84.2)	Pump operations	35.00 (35 - 35)	Visual	~	-	~	-	2 pumps operating; channel staff = 0.68
7:00	Rio Grande at Bosque del Apache Refuge Headquarters (RM 78.75)	Continuous flow	32.50 (30 - 35)	Visual	-	-	-	-	None
7:45	Rio Grande at Bosque del Apache Refuge River Widening Site (RM 77)	Continuous flow	30,00 (30 - 30)	Visual	-	-	$\sim$	-	None
16:30	Rio Grande at Bosque del Apache Refuge River Widening Site (RM 77)	Continuous flow	30.00 (30 - 30)	Visual	( <del>-</del> )	$\overline{}$	-	-	None
9:00	Rio Grande 750 ft. upstream of South Boundary Bosque del Apache Refuge (RM 73.9)	Continuous flow	17 50 (15 - 20)	Visual	-	-	-		None

Sa	ın A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 83, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
4-Jul-20	012	General Comments: The	river is dry or reduced to isolated poo	ls over a 24.57 mile segn	nent in the San Acacia	Reach.				A 70 W 10 10
			er is reduced to isolated pools over a 2 is of "new drying" Aside from this seg						Apache (	RM 74 0). There was 0,3
	13:00	Rio Grande 0.43 miles downstream of Otero Street (RM 98.57)	Top of river drying, including 0.35 miles of "new drying"	0.00 (0 - 0)	Visual	3769894	327050	08	-	None
	10:00	Rio Grande 3.12 miles upstream of Brown Arroyo (RM 97.6)	Top of river drying	0.00 (0 - 0)	Visual	3768666	327990	-		None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	-		3733282	322934	Site not observed this date
5-Jul-20		Rive 74.0 Rio Grande at Otero Street	river is dry or reduced to isolated poor or is reduced to isolated pools over a 2 i). There was 0.41 miles of 'new dryin Top of river drying and 0.41	25.0-mile segment extend	ing south from Otero	Street, Socor				
	0:00	Socorro (RM 99)  Rio Grande at South  Boundary Bosque del Apache Refuge (RM 74)	miles of "new drying" presumed bottom of river drying	0.00 (0 - 0)	Visual		-	3733282	322934	None

San Acacia Reach		cacia Reach		Estimated Flow (cfs)	Flow Estimate	River Drying GIS Coordinates (UTM NAD 1983, Zone 13)				
Date	Time	Location*	Observation	Avg (Range)	Туре	Тор (N	- E)	Bottom	(N - E)	Comments
6-Jul-20	112	Rive	river is dry or reduced to isolated poor er is reduced to isolated pools over a 2 que del Apache (RM 74.0). There wa ch.	7.5-mile segment extend	ling south from a point	2.25 miles d				
	5:30	Rio Grande at Escondida (RM 104.1)	Continuous flow	7.00 (7 - 7)	Visual	-	_	-	_	None
	6:00	Rio Grande at Diversion Channel North of Socorro (RM 102.6)	Continuous flow	5.00 (5 - 5)	Visual	=	~	-	~	Noné
	8:00	Rio Grande 2.25 miles downstream of Escondida (RM 101.5)	Top of river drying and 2.5 miles of "new drying"	0.00 (0 - 0)	Visual	3773739	327175	-	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 = 0)	Visual	~	4	3733282	322934	Site not observed this date
7-Jul-20	112	Riv	river is dry or reduced to isolated poor er is reduced to isolated pools over a 2 que del Apache (RM 74.0). Aside from	7.5-mile segment extend	ling south from a point	2.25 miles d				1.5) to South Boundary
	-	Rio Grande 2,25 miles downstream of Escondida (RM 101.5)	Top of river drying	0.00 (0 - 0)	Visual	3773739	327175	-	-	None
	0:00	Rio Grande al South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	-	-	3733282	322934	Site not observed this date

San Acacia Reach				Estimated Flow (cfs)	Flow Estimate	River Dr	rying GIS M NAD 198			
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
3-Jul-20	12	General Comments: The	river is dry or reduced to isolated poo	ls over a 27.5 mile segme	ent in the San Acadia	Reach.				137 87
		Bos	er is reduced to isolated pools over a 2 sque del Apache (RM 74.0). This segn n Acacla Reach.							
	8:00	Rio Grande 2:25 miles downstream of Escondida (RM 101.5)	Top of river drying	0.00 (0 - 0)	Visual	3773739	327175	=	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0-0)	Visual	8	-	3733282	322934	None
-Jul-20	12	General Comments: The	river is dry or reduced to isolated poo	ls over a 27.5 mile segma	ent in the San Acacla	Reach.				
		Bos	er is reduced to isolated pools over a 2 sque del Apache (RM 74.0). This segn n Acacla Reach:							
	9:00	Rio Grande 2,25 miles downstream of Escondida (RM 101.5)	Top of river drying. No change from previous day.	0,00 (0 - 0)	Visual	3773739	327175	9	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	-	-	3733282	322934	None

San Acacia Reach				Estimated Flow (cfs)	Flow Estimate	River Dr	ying GIS M NAD 198			
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
Jul-20	112	General Comments: The	river is dry or reduced to isolated poo	ols over a 29 mile segmen	t in the San Acacia R	each.				
		Box	er is reduced to isolated pools over a indary Bosque del Apache (RM 74.0). San Acada Reach.							
	-0133	Rio Grande 1.05 miles downstream of Escondida (RM 103)	Top of river drying. There has been 1.5 miles of "new drying" since yesterday.	0.00 (0 - 0)	Visual	3775568	326414	-	)	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	=	-	3813571	334416	Site not visited this date
-Jul-20	112	General Comments: The	river is dry or reduced to isolated poo	ols over a 21 mile segmen	t in the San Acacia R	each.				
I-Jul-20	112	At Box	river is dry or reduced to isolated poor 16:15 hrs. river is reduced to isolated p undary Bosque del Apache (RM 74.0). San Acacia Reach.	ools over a 21.0-mile seg	ment extending south	from a point	1.0 mile up egment, th	ostream of E e flow in the	Brown Arro main rive	yo (RM 95.0) to South channel is continuous in
		At Box	16:15 hrs, river is reduced to isolated pundary Bosque del Apache (RM 74.0). San Acacia Reach.	ools over a 21.0-mile seg	ment extending south	from a point	1.0 mile up egment, th 327710	pstream of E e flow in the	Brown Arro main rive	yo (RM 95.0) to South channel is continuous in None
	16:15	At Boothe	16:15 hrs, river is reduced to isolated pundary Bosque del Apache (RM 74.0). San Acada Reach.  Top of river drying. There has been 8.0 miles of river rewetting since yesterday.  Presumed bottom of river drying	oods over a 21.0-mile seg This includes 8 0 miles o	ment extending south	from a point de from this s	egment, th	pstream of E e flow in the 	Brown Arro main rive	channel is continuous in
	16:15	At Box the Rio Grande 1.0 mile upstream of Brown Arroya (RM 95) Rio Grande at South Boundary Bosque del Apache	16:15 hrs, river is reduced to isolated pundary Bosque del Apache (RM 74.0). San Acada Reach.  Top of river drying. There has been 8.0 miles of river rewetting since yesterday.  Presumed bottom of river drying  Continuous flow	oods over a 21.0-mile seg This includes 8.0 miles of 0,00 (0 - 0)	ment extending south fidver rewelting. Asia Visual	from a point de from this s	egment, th	e flow in the	main rive	None Site not observed this
	16:15 0:00 15:15	At Box the Rio Grande 1,0 mile upstream of Brown Arroya (RM 95)  Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)  Rio Grande 2.0 miles downstream of South Boundary Bosque del Apache	16:15 hrs, river is reduced to isolated pundary Bosque del Apache (RM 74.0). San Acada Reach.  Top of river drying. There has been 8.0 miles of river rewetting since yesterday.  Presumed bottom of river drying  Continuous flow	000ls over a 21.0-mile seg This includes 8.0 miles of 0,00 (0 - 0) 0.00 (0 - 0)	ment extending south finver rewetting. Asia Visual Visual	from a point de from this s	egment, th	e flow in the	main rive	None Site not observed this date

San Acacia Reach		Estimated Flow (cfs)	Flow Estimate	River Drying G			
Date Time	Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

01-Aug-2012 General Comments: The river is dry or reduced to isolated pools over a 19 mile segment in the San Acacia Reach.

At 13:36 hrs the river is reduced to isolated pools over a 19.0-mile segment extending south from a point 1.0 mile downstream of Brown Arroyo (RM 93.0) to South Boundary Bosque del Apache (RM 74.0). This includes 2.0 miles of river rewetting since yesterday. Aside from this segment, the flow in the main river channel is continuous in the San Acada Reach.

The second second second	Grande at Otero Street, corro (RM 99.1)	Continuous flow	20.00 (20 - 20)	Visual	-	-	-	<b>—</b>	None
	Grande 1.0 mile upstream Irown Arroyo (RM 95)	Continuous flow	15.00 (15 - 15)	Visual	-	-	-	~	None
	Grande at Brown Arroyo 194)	Continuous flow	15.00 (15 - 15)	Visual	-	-	8	-	None
dow	Grande 0.5 mile Instream of Brown Arroyo (193.5)	Top of river drying. At this time, there has been 1.5 miles of river rewetting since yesterday.	0.00 (0 - 0)	Visual	3763384	327412	-	-	None
dow	Grande 1.0 mile ristream of Brown Arroyo (193)	Top of river drying. At this time, there has been 20 miles of river rewelting since yesterday.	0.00 (0 - 0)	Visual	3762823	327952	-	=	None
Bou	Grande at South Indary Bosque del Apache luge (RM 74)	Presumed bottom of river drying	0,00 (0 - 0)	Visual	-	-	3733282	322934	Site not visited this date

San Acacia Reach		cacia Reach		Estimated Flow Flow (cfs) Estimat	Flow Estimate	River Dr	ying GIS M NAD 198				
Date	Time	Location*	Observation	Avg (Range)	Avg (Range)	Туре	Тор (N	- E)	Bottom	(N - E)	Comments
2-Aug-2	2012	General Comments: The	river is dry or reduced to isolated poo	ols over a 18,5 mile segm	ent in the San Acadia	Reach.					
		Sou	8:01 hrs the river is reduced to isolat th Boundary Bosque del Apache (RM n river channel is continuous in the Se	74.0). This includes 0.5							
	12:00	Brown Arroyo at the Rio Grande (RM 94)	Irrigation discharge	30.00 (30 - 30)	Visual	-	$\approx$	-		None	
	8:01	Rio Grande 1.5 miles downstream of Brown Arroyo (RM 92.5)	Top of river drying. At this time, there has been 0.5 miles of river rewelting since 13:38 hrs yesterday.	0.00 (0 - 0)	Visual	3762033	328087	8	-	None	
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 = 0)	Visual	-	~	3733282	322934	Site not observed this date	
-Aug-	2012	Rive Bos	river is dry or reduced to isolated poor er is reduced to isolated pools over a ' que del Apache (RM 74.0). This inclu inuous in the San Acada Reach	19.0-mile segment extend	ing south from a point	1.0 mile dow					
	7:16	Rio Grande 1.0 mile downstream of Brown Arroyo (RM 93)	Top of river drying. Some 0.5 miles of river rewet since yesterday.	0.00 (0 = 0)	Visual	3762787	327893	-	les.	None	
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	-	-	3733282	322934	Site not observed the	

San Acacia Reach				Estimated Flow (cfs)	Flow Estimate	River Drying GIS Coordinates (UTM NAD 1983, Zone 13)				
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
4-Aug-	2012	General Comments: The	river is dry or reduced to isolated po-	ols over a 28,3 mile segmer	nt in the San Acadia	Reach.				190-50
			er is reduced to isolated pools over a que del Apache (RM 74.0). Aside fro							3.0) to South Boundary
	21:00	Rio Grande 1.5 miles downstream of Escondida Bridge (RM 102.3)	Top of drying. Some 9.3 miles of river dried since yesterday morning, all of which had dried previously this year.	0.00 (0 - 0)	Visual	3774641	326645	-	8	None
	7:00	Rio Grande 1.0 mile downstream of Brown Arroyo (RM 93)	Top of river drying	0.00 (0 - 0)	Visual	3762787	327893	-	=	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 = 0)	Visual	*	*	3733282	322934	Site not observed today.
5-Aug-	2012	Rive Bos	river is dry or reduced to isolated poor or is reduced to isolated pools over a que del Apache (RM 74.0). Aside fro at since yesterday evening at 21.00 h	13.1-mile segment extendir om this segment, flow in the	g south from a point	t 1.0 mile dov				
	3:00	Rio Grande at Escondida Bridge (RM 104.8)	Continuous flow	632.00 (632 - 632)	Visual	-	-	-	-	Estimated flow confirms USGS posting on interne
	6:00	Rio Grande at US 380 (RM 87.1)	Top of river drying. Some 15.2 miles of river have rewet since yesterday evening at 21:00 hrs.	0.00 (0 - 0)	Visual	3754727	328843		=	None
	0.00	Rio Grande at South	Presumed bottom of river drying	0.00 (0 = 0)	Visual	(max)	-	3733282	322934	Site not observed this

OE	ın A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordin 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
6-Aug-2	2012	General Comments: The	ne river is dry or reduced to isolated poo	ls over a 3 mile segment	in the San Acadia Re	ach.				797.0
		Ar m	: 16:00 hrs, the river was still rewelting, bache Refuge (RM 77). Bottom of dryin iles. Aside from this segment, flow in th 00 hrs.	g is at South Boundary B	osque del Apache (RI	M 74.0). Total	I river dry i	n the San A	cacia Rea	ch is estimated to be 3.0
	23.59	Rio Grande at the River Widening site on Bosque del Apache Refuge (RM 77)	Top of river drying,	0.00 (0 - 0)	Visual	3737749	326222	-	-	None
	0:00	Rio Grande at South Boundary Bosque del Apacho Refuge (RM 74)	Persumed bottom of river drying e	0.00 (0 - 0)	Visual	-	-	3733282	322934	Site not visited this dat
		By	02:00 hrs, the river is reduced to isolal, y 24:30 hrs, the river is reduced to isolat outh Boundary Bosque del Apache (RM e San Acacia Reach.	ed pools over a 29.00-mi	le segment extending	south from a	point 1.04	miles down	stream of I	Escondida (RM 103) to
								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	mun nye	channel is continuous i
	21:00	Rio Grande at Nine Mile Outfall (RM 105)	Continuous flow	5,00 (5 - 5)	Visual	÷	=	-	_	None
			Continuous flow  Top of river drying, Some 28,15 miles of river dried since 02:30 hrs this date.	5.00 (5 - 5) 0.00 (0 - 0)	Visual	3775564	326414	=	-	
	21:30	Outfall (RM 105)  Rio grande 1.04 miles downstream of Escondida	Top of river drying, Some 28.15 miles of river dried since			+		=	-	None

Sar	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordin 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Type	Top (N	- E)	Bottom	(N - E)	Comments
8-Aug-20	112	The 104.	river is dry or reduced to isolated poo river is reduced to isolated pools over 11) to South Boundary Bosque det Ap nuous in the San Acacia Reach.	a 30.11-mile segment	extending south from a	point approxi				
	18:30	Rio Grande approximately 200 feet downstream of Escondida Bridge (RM 104.11)	Top of river drying. This point is 1.11 miles upstream of the previous maximum extent of drying for the reach and therefore represents "new drying".	0.00 (0 - 0)	Visual	3777118	326006	-		None
	6:00	Rio Grande 1.04 miles downstream of Escondida Bridge (RM 103)	Top of river drying.	0.00 (0 - 0)	Visual	3775567	326398	-	31	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	1996	i <del>se</del>	3733282	322934	Site not visited this da
9-Aug-20		The Sout	river is dry or reduced to isolated poor river is reduced to isolated pools over h Boundary Bosque del Apache (RM nuous in the San Acacia Reach.  Top of river drying. This point	a 30.4-mile segment e	extending south from the	confluence				
	10.00	Outfall (RM 104.4)	is 0.29 miles upstream of the previous maximum extent of drying for the reach and therefore represents "new drying".	0.00 (0 - 0)	Visual	2111312	32337			
	9:30	Rio Grande at USGS gauge at Escondida (RM 104.1)	Flow estimate.	0.00 (0 - 0)	Visual	4	-	-	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	-	-	3733282	322934	Site not observed this date

Sa	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 33, Zone 13)		
ate	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
Aug-2	012	General Comments: The	river is dry or reduced to isolated poo	ols over a 31,79 mile segn	nent in the San Acacia	Reach.				
		Bou	river is reduced to isolated pools over ndary Bosque del Apache (RM 74.0). San Acacia Reach.							
		Rio Grande 1.08 miles Upstream of Nine Mile Outfall (RM 105.79)	Top of river drying. This point is 1.39 miles upstream of the previous maximum extent of drying for the reach and therefore represents "new drying".	0.00 (0 - 0)	Visual	3779154	326781	-		None
	-	Rio Grande 0.21 miles upstream of Nine Mile Outfall (RM 104.6)	Top of river drying	0.00 (0 - 0)	Visual	3777786	326057	-	=	None
		Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	-	-	3733282	322934	Site not observed thin date
Aug-2	2012	The Bou	river is dry or reduced to isolated poor river is reduced to isolated pools over ndary Bosque del Apache (RM 74.0). San Acacia Reach.	r a 32.2-mile segment ext	ending south from a p	oint 1.48 mile				
	0.504,51	Rio Grande 1.48 miles upstream of Nine Mile Outfall (RM 106.2)	Top of river drying. This point is 0,41 miles upstream of the previous maximum extent of drying for the reach and therefore represents "new" drying.	0.00 (0 - 0)	Visual	3779800	326767	ė	8	None
		Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	-	-	3733282	322934	Site not observed thi

	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 83, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
2-Aug-2	012	The	river is dry or reduced to isolated poor river is reduced to isolated pools ove indary Bosque del Apache (RM 74.0).	a 32,2-mile segment ex	ending south from a p	oint 1.48 mile				
	12:00	Rio Grande 1.48 miles upstream of Nine Mile Outfall (RM 106,2)	Top of river drying	0.00 (0 - 0)	Visual	3779800	326767	~	-	No change since yesterday
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	=	=	3813565	334405	Site not observed this date
		Rio Grande 1/08 miles upstream of Nine Mile Outfall (RM 105.97)	Top of river drying. There has been 0.41 miles of river that have rewet since yesterday.	0.00 (0 - 0)	Visual	3779154	326781		3	None
		upstream of Nine Mile Outfall	been 0.41 miles of river that	0.00 (0 - 0)	Visual	3779154	326781	3733282	322934	None Site not observed the
4-Aug-2	0:00	upstream of Nine Mile Outfall (RM 105.97) Rio Grande 1.08 miles upstream of Nine Mile Outfall (RM 74)	been 0.41 miles of river that have rewet since yesterday	0.00 (0 - 0)	Visual	_	326781	3733282	322934	Site not observed the
4-Aug-2	0:00	upstream of Nine Mile Outfall (RM 105.97) Rio Grande 1.08 miles upstream of Nine Mile Outfall (RM 74)  General Comments: The The Bou	been 0.41 miles of river that have rewet since yesterday. Presumed bottom of river drying	0.00 (0 - 0) Is over a 31.97 mile segr	Visual nent in the San Acacia xtending south from a	a Reach	les upstre	am of Nine N	Alle Oulfall	Site not observed the date
4-Aug-2	0:00 012 7:00	upstream of Nine Mile Outfall (RM 105.97) Rio Grande 1.08 miles upstream of Nine Mile Outfall (RM 74)  General Comments: The The Bou	been 0.41 miles of river that have rewet since yesterday.  Presumed bottom of river drying river is dry or reduced to isolated poor river is reduced to isolated pools over hodry Bosque del Apache (RM 74.0).	0.00 (0 - 0) Is over a 31.97 mile segr	Visual nent in the San Acacia xtending south from a	a Reach	les upstre	am of Nine N	Alle Oulfall	Site not observed the date

Sa	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordin 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Тор (N	- E)	Bottom	(N - E)	Comments
5-Aug-2	012	The Bou	river is dry or reduced to isolated poor river is reduced to isolated pools over ndary Bosque del Apache (RM 74.0). e San Acacia Reach.	a 31.97-mile segment e	xtending south from a	point 1.08 mi				
	6:00	Rio Grande 1.08 miles upstream of Nine Mile Outfall (RM 105.97)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3779154	326781	-	3	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	-	-	3733282	322934	Site not observed this date
6-Aug-2	012	The Bou	river is dry or reduced to isolated poc river is reduced to isolated pools over ndary Bosque del Apache (RM 74.0) e San Acacia Reach.	a 31.97-mile segment e	ktending south from a	point 1.08 mi				
		Rio Grande 1.08 miles upstream of Nine Mile Outfall (RM 105.97)	Top of river drying. No change since yesterday,	0,00 (0 - 0)	Visual	3779154	326781	9	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	-	-	3733282	322934	Site not observed this date

Sa	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordin 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Тор (N	- E)	Bottom	(N - E)	Comments
7-Aug-2	2012	General Comments: The	river is dry or reduced to isolated poo	ols over a 31,97 mile segn	nent in the San Acacia	a Reach.				
		Bou	river is reduced to isolated pools ove ndary Bosque del Apache (RM 74.0). e San Acacia Reach.							
	6:00	Rio Grande 1.08 miles upstream of Nine Mile Oulfall (RM 105.97)	Top of river drying. No change since yesterday	0.00 (0 - 0)	Visual	3779154	326781	-	)	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	œ1	=	3733282	322934	Site not observed this date
8-Aug-2	2012	General Comments: The	river is dry or reduced to isolated poor	ols over a 31.97 mile segr	nent in the San Acacia	a Reach.				
		Bou	river is reduced to isolated pools ove ndary Bosque del Apache (RM 74.0), e San Acacia Reach.							
	7:00	Rio Grande 1.08 miles upstream of Nine Mile Outfall (RM 105.97)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3779154	326781	~	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	-	-	3733282	322934	Site not visited this de

Sa	ın A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 83, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Type	Top (N	- E)	Bottom	(N - E)	Comments
9-Aug-2	2012	The	river is dry or reduced to isolated poor river is reduced to isolated pools over 74.0). Some 6.97 miles of river have ch	r a 25.00-mile segment e	extending south from C	tero Street, S	ocorro (Ri in the mail	M 99.0) to S n river chann	outh Boun nel is conti	dary Bosque del Apache nuous in the San Acacia
	8:00	Rio Grande at Escondida (RM 104.2)	Continuous flow	10.00 (10 - 10)	Visual	-	_	-	_	None
	7:30	Socorro North Diversion Channel (RM 102,4)	Discharge estimate. High water mark suggests that recent flow was as high as 300 cfs.	25.00 (25 - 25)	Visual	=	-	-	-	None
	7:00	Rio Grande 3.2 miles downstream of Escondida (RM 101)	Continuous flow	27.50 (25 - 30)	Visual	-	~	-	~	None
	6:00	Rio Grande at Otero Street, Socorro (RM 99)	Top of drying. River rapidly rewetting.	0,00 (0 - 0)	Visual	3770405	326974	-	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual		-	3733282	322934	Site not observed this date
0-Aug-2	2012	The Bou	river is dry or reduced to isolated por river is reduced to isolated pools ove ndary Bosque del Apache (RM 74.0), nnel is continuous in the San Acacia	r a 30.8-mile segment ex There has been 8.5 mile	tending south from a p	oint 0.22 mile				
	90,000	Rio Grande 0.22 miles upstream of Nine Mile Outfall (RM 104.8)	Top of niver drying. There has been 8.5 miles of river drying since yesterday afternoon (the river rewet downstream to RM 96.3 [328081, 3766166] yesterday afternoon).	0.00 (0 = 0)	Visual	3777919	326070	-	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 -0)	Visual	-	-	3733282	322934	Site not visited this da

	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 33, Zone 13)		
Date Tim	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
1-Aug-2012	The Bos	river is dry or reduced to isolated poor river is reduced to isolated pools over que del Apache (RM 74.0). There ha inuous in the San Acacia Reach.	r a 28.4-mile segment ext	ending south from the	diversion ch				
6:3	Rio Grande at the diversion channel north of Socorro (RM 102.4)	Top of river drying. There has been 2.4 miles of river rewetting since yesterday afternoon.	0.00 (0 - 0)	Visual	3774656	326561	-	J	None
0:0	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	440	-	3733282	322934	Site not observed this date
	of S	0:30 hrs, the river is reduced to isolat ocorro (RM 97.44) to South Boundary ment, the flow in the main river chann	ed pools over a 23,44-mil Bosque del Apache (RN	74.0). At 10:30 hrs.	south from a there has bee	n 4.96 mil	es of river re	wet since	yesterday. Aside from
6:0	of S	ocorro (RM 97.44) to South Boundary ment, the flow in the main river chann Top of river drying. There has been 2.4 miles of river rewetting since yesterday. The river is rapidly rewetting from this point (70 cfs) and is	ed pools over a 23,44-mil Bosque del Apache (RN	e segment extending 74.0). At 10:30 hrs.	south from a there has bee	n 4.96 mil	es of river re	wet since	yesterday. Aside from
	of S segri Prio Grande 1,21 miles downstream of the diversion channel north of Socorro (RM	ocorro (RM 97.44) to South Boundary ment, the flow in the main river charin Top of river drying. There has been 2.4 miles of river rewetting since yesterday. The river is rapidly rewetting from	ed pools over a 23,44-mil Bosque del Apache (RM el is continuous in the Sa	e segment extending 74.0). At 10:30 hrs, i n Acacia Reach. Hea	south from a there has bee vy precipitation	en 4.96 mil on is expec	es of river re	wet since	yesterday. Aside from e San Acacia Reach to

	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
3-Aug-20	012	General Comments: The	river is dry or reduced to isolated poo	ls over a 16.05 mile segn	nent in the San Acacia	Reach.	170	000		Carlos A.
		Sou	18:30 hrs the presumed top of river dry th Boundary Bosque del Apache pum r that has rewet since yesterday. The Acada Reach.	p channel (RM 74.0). Thi	s intermittent river se	gment is pres	umed to b	e 16.05 mile	s. There I	as been 10.95 miles of
	8:30	Rìo Grande at Neil Cupp pump site (RM 90.05)	Top of river drying. There has been 10.95 miles of river that has rewet since yesterday.	0.00 (0 - 0)	Visual	3758812	329027	-	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	14.7	-	3733282	322934	Site not observed this date
		Bou of ri	18:30 hrs the river is reduced to isolate indary Bosque del Apache Refuge (RN iver that has rewet since yesterday. The remaining intermittent rive.	A 84.1) based on the dura he presumed bottom of ri	tion of the flood pulse ver drying remains, fo	at the USGS the moment	gauge up	stream of Houndar	wy 380. Try Bosque	here has been 5.95 mi del Apache pump char
		Box of ri (RN	indary Bosque del Apache Refuge (RM	A 84.1) based on the dura he presumed bottom of ri er segment is presumed t	ition of the flood pulse ver drying remains, fo o be 10.1 miles. How	at the USGS the moment	gauge up	stream of Houndar	wy 380. Try Bosque	here has been 5.95 mil del Apache pump char
	1111	Box of ri (RN	Indary Bosque del Apache Refuge (River that has rewet since yesterday. Ti 74.0). The remaining intermittent riving ment, the flow in the main river channing	A 84.1) based on the dura he presumed bottom of ri er segment is presumed t	ition of the flood pulse ver drying remains, fo o be 10.1 miles. How	at the USGS the moment	gauge up	stream of Houndar	wy 380. Try Bosque	here has been 5.95 mil del Apache pump char
		Rio Grande at North Boundary Bosque del Apache Refuge	Indary Bosque del Apache Refuge (River that has rewet since yesterday, Ti 74.0). The remaining intermittent river ment, the flow in the main river channel.  Presumed top of river drying. There has been 5.95 miles of river that has rewet since	A 84.1) based on the dura the presumed bottom of rie er segment is presumed el is continuous in the Sar	tion of the flood pulse ver drying remains, fo o be 10.1 miles. How n Acacia Reach.	e at the USGS r the moment vever, the rive	gauge up , at the So r is rapidly	stream of Houndar	wy 380. Try Bosque	here has been 5.95 mil del Apache pump char . Aside from this
5-Aug-2	0:00	Rio Grande at North Boundary Bosque del Apache Refuge (RM 84.1)  Rio Grande at South Boundary Bosque del Apache	Indary Bosque del Apache Refuge (River that has rewet since yesterday. Ti 74.0). The remaining intermittent rivement, the flow in the main river channel. The flow in the main river channel of the flow in the main river channel. There has been 5.95 miles of river that has rewet since yesterday.	A 84.1) based on the dura the presumed bottom of it er segment is presumed t et is continuous in the Sar 0,00 (0 - 0)	tion of the flood pulse ver drying remains, fo o be 10.1 miles. How n Acacia Reach. Visual	e at the USGS r the moment vever, the rive	gauge up , at the So r is rapidly	stream of H uth Boundar rewetting at	wy 380. Try Bosque 08:30 hrs	here has been 5.95 mil del Apache pump chan Aside from this None
25-Aug-20	0:00	Rio Grande at North Boundary Bosque del Apache Refuge (RM 84.1)  Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)  General Comments:	Indary Bosque del Apache Refuge (River that has rewet since yesterday. Ti 74.0). The remaining intermittent rivement, the flow in the main river channel. The flow in the main river channel of the flow in the main river channel. There has been 5.95 miles of river that has rewet since yesterday.	A 84.1) based on the dura the presumed bottom of it er segment is presumed t et is continuous in the Sar  0.00 (0 - 0)  0.00 (0 - 0)	tion of the flood pulse ver drying remains, fo o be 10.1 miles. How n Acacia Reach.  Visual  Visual	at the USGS rithe moment rever, the rive 3749291	gauge up, at the So r is rapidly 329081	estream of Huth Boundar rewetting at 3733282	wy 380. T y Bosque 08:30 hrs 322834	here has been 5.95 mildel Apache pump chan . Aside from this  None  Site not observed this date

Sa	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordin 83, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
6-Aug-2	012	General Comments:	in the main river channel is believed	to be continuous throu	ghout the San Acadia Rea	ich based	on USGS i	nternet posti	ngs of flow	and field observation
	7:00	Rio Grande at US 380 (RM 87.1)	Observation of continuous flow- confirms USGS internet posting of flow.	37 00 (37 × 37)	Visual	-	-	-	)(	None
	6.00	Rio Grande at River Widening site on Bosque del Apache Refuge (RM 77)	Continuous flow; no estimate of flow	NA	Not available/applicable	-	-	-	-	None
27-Aug-2	.012	General Comments: Flow	in the main river channel is believed	to be continuous throu	ghout the San Acacia Res	ich based	on USGS i	nternet postii	ngs of flow	and field observation
	5.30	Rio Grande at Brown Arroyo (RM 94.1)	Continuous flow; no estimate of flow	NA	Not available/applicable	=	-	$\sim$	-	None
	6.00	Rio Grande at US 380 (RM 87.1)	Continuous flow	65,00 (65 - 65)	Visual	-	-	-	-	None
		Rio Grande at River Widening on Bosque del Apache Refuge (RM 77.2)	Continuous flow	45.00 (45 - 45)	Visual	-	-			None

Sa	ın A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			IS Coordii 83, Zone 13		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
8-Aug-	2012	General Comments:	in the main river channel is	believed to be continuous throu	ghout the San Acacia Res	ich based	on USGS	internet posti	ngs of flow	and field observation
	5:30	Rio Grande at US 380 (RM 87.1)	Continuous flow	35,00 (35 × 35)	Visual	1999	l-we	-	144	None.
		Rio Grande at River Widening on Bosque del Apache Refuge (RM 77 2)	Continuous flow	NA	Not available/applicable	-	~	-	-	No flow estimate
	6.00	Rio Grande at Mid Bosque del Apache (RM 76.5)	Continuous flow	25 00 (25 - 25)	Visual	-	-	÷	=	None
	7:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Continuous flow	NA	Not available/applicable	-	-	_	9	No flow estimate
9-Aug-2	2012	General Comments:								
		Flow	in the main river channel is	believed to be continuous throu	ghout the San Acacia Rea	ich based	on USGS	internet posti	ngs of flow	and field observation
	8:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Continuous flow	7.50 (5 - 10)	Visual	-	~	-	-	None

Sa	ın A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordin 83, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
0-Aug-	2012	General Comments:	in the main river channel is belie	eved to be continuous throu	ghout the San Acadia Rea	ach based o	on USGS in	nternet posti	ngs of flow	and field observation
	4:00	Rio Grande at Brown Arroyo (RM 94.1)	Continuous flow	20.00 (20 ~ 20)	Visual	144	l Hees	_	leses .	None
	4:30	Rio Grande at Neil Cupp (RM 90.05)	Continuous flow	NA	Not available/applicable	-	~	100	-	No flow estimate
	5:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	20.00 (20 - 20)	Visual	-	-	-	=	None
	6:00	Rio Grande lateral to Bosque del Apache Refuge headquarters (RM 78,75)	Continuous flow	20.00 (20 - 20)	Visual	-	-	3	-	None
	7:00	Rio Grande at River Widening (RM 77)	Continuous flow	15.00 (15 - 15)	Visual	-	-	-	-	None
	8:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Continuous flow	5.00 (5 - 5)	Visual	-	-	~	8	None
31-Aug-	2012	Rive	river is dry or reduced to isolated r is reduced to isolated pools ove ndary Bosque del Apache (RM 74	r a 3,2-mile segment exten	ding south from the River	Widening.				
	7.45	Rio Grande at River Widening, Bosque del Apache Refuge (RM 77.2)	Top of niver drying	0,00 (0 - 0)	Visual	3737944	326256	-	_	None
	0;00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying,	0.00 (0 - 0)	Not available/applicable	-	-	3733282	322934	None

Sa	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
1-Sep-2	012	General Comments: The	river is dry or reduced to isolated po	ols over a 13.1 mile seg	gment in the San Acadia R	each.				200
			er is reduced to isolated pools over a i). Aside from this segment, flow in the					to South Bo	oundary Bo	osque del Apache (RM
	14:00	Rio Grande at Hwy 380 (RM 87.1)	Top of river drying, Some 9.9 miles of river have dried at the "top of drying" since yesterday	0.00 (0 - 0)	Visual	3754723	328900	-	3	None
	2777	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74; 322934, 3733282) (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Not available/applicable	=	=	3733282	322934	None
?-Sep-2	012	Rive Bou	river is dry or reduced to isolated po er is reduced to isolated pools over a ndary Bosque del Apache (RM 74), nnel is continuous in the San Acacia	20-mile segment exten Some 6.9 miles of river	ding south from a point ap	proximately				
	15:30	Rio Grande at 6,9 miles upstream of Hwy 380 Bridge (RM 94)	Top of river drying. Some 6.9 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3763994	327202	~	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	-	-	3733282	322934	Site not observed the

Sar	ı A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordin 33, Zone 13)		
Date 1	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
3-Sep-20	12	General Comments: The	river is dry or reduced to isolated poo	ls over a 22,27 mile segn	nent in the San Acacia	Reach.	7	7		777
		Bou	r is reduced to isolated pools over a 2 ndary Bosque del Apache (RM 74). S inel is continuous in the San Acacla R	some 2.27 miles of river h						
	10133	Rio Grande 2,47 miles downstream of Otero Street Socorro (RM 96,27)	Top of river drying. Some 2:27 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3766975	327730	-	J	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0-0)	Visual	=	=	3733282	322934	Site not observed the date
4-Sep-20*	12	Rive Bout	river is dry or reduced to isolated poor r is reduced to isolated pools over a 2 dary Bosque del Apache (RM 74), S inel is continuous in the San Acacia R	22.51-mile segment extentions of river h	ding south from a poi	nt 2.23 miles				
		eria.	ine is commissed in the San Acada in	eauli.						
		Rio Grande 2,23 miles downstream of Otero Street, Socorro (RM 96.51)	Top of river drying. Some 0.24 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3767379	327622	~		None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	-	-	3733282	322934	Site not observed this date

	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordin 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
5-Sep-2	2012	General Comments: The	river is dry or reduced to isolated po	ols over a 24 mile segmen	t in the San Acacia R	each.	100			1.72 X E
		Bou	r is reduced to isolated pools over a ndary Bosque del Apache (RM 74), onel is continuous in the San Acacia	Some 1.49 miles of river h						
	7:00	Rio Grande 1.00 mile downstream of Otero Street Socorro (RM 98)	Top of river drying. Some 1.49 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3769209	327668	-	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying,	0.00 (0 - 0)	Visual	-	-	3733282	322934	Site not observed the date
			r is reduced to isolated pools over a ndary Bosque del Apache (RM 74).							
		Rio Grande 1.00 mile downstream of Otero Street, Socorro (RM 98)	ndary Bosque del Apache (RM 74).  Top of river drying. No change since yesterday.	Aside from this segment, f	low in the main river o			the San Act	acia Reach	None
		Rio Grande 1.00 mile downstream of Otero Street.	ndary Bosque del Apache (RM 74).  Top of river drying. No change.	Aside from this segment, f	low in the main river o	channel is con	ntinuous in			
	11:45	Rio Grande 1.00 mile downstream of Otero Street. Socorro (RM 98) Rio Grande at South Boundary Bosque del Apache	ndary Bosque del Apache (RM 74).  Top of river drying. No change since yesterday.	Aside from this segment, f	low in the main river o	channel is con	ntinuous in	the San Act	acia Reach	None
	11:45 11:46	Rio Grande 1.00 mile downstream of Otero Street. Socorro (RM 98) Rio Grande at South Boundary Bosque del Apache Refuge (RM 74) Rio Grande just downstream of South Boundary Bosque del	ndary Bosque del Apache (RM 74).  Top of river drying. No change since yesterday.  Bottom of river drying	Aside from this segment, f 0.00 (0 - 0) -0.00 (0 - 0)	Visual	channel is con	ntinuous in	the San Act	acia Reach	None
	11:45 11:46 12:05	Rio Grande 1.00 mile downstream of Otero Street. Socorro (RM 98) Rio Grande at South Boundary Bosque del Apache Refuge (RM 74) Rio Grande just downstream of South Boundary Bosque del Apache Refuge (RM 73.8) Rio Grande 2.5 miles downstream of South Boundary Bosque del Apache	Top of river drying. No change since yesterday.  Bottom of river drying.  Continuous flow	0.00 (0 - 0) 0.00 (0 - 0) 0.00 (0 - 0) 10.00 (10 - 10)	Visual Visual	channel is con	ntinuous in	the San Act	acia Reach	None None None
	11:45 11:46 12:05	Rio Grande 1.00 mile downstream of Otero Street. Socorro (RM 98) Rio Grande at South Boundary Bosque del Apache Refuge (RM 74) Rio Grande just downstream of South Boundary Bosque del Apache Refuge (RM 73.8) Rio Grande 2.5 miles downstream of South Boundary Bosque del Apache Refuge (RM 71.5)	Top of river drying. No change since yesterday.  Bottom of river drying  Continuous flow	Aside from this segment, 1 0.00 (0 - 0) -0.00 (0 - 0) -10.00 (10 - 10) -20.00 (20 - 20)	Visual Visual Visual	channel is con	ntinuous in	the San Act	acia Reach	None None None

San	Acacia Reach		Estimated Flow (cfs)	Flow Estimate		GIS Coordinates 983, Zone 13)	
Date Tin	ne Location*	Observation	Avg (Range)	Type	Top (N - E)	Bottom (N - E)	Comments

07-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 24.6 mile segment in the San Acadia Reach.

River is reduced to isolated pools over a 24.6 mile segment extending south from a point 0.40 mile downstream of Otero Street, Socorro (RM 98.6) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.

5:0	9 Rio Grande 0.40 mile downstream of Otero Street, Socorro (RM 98.5)	Top of river drying, Some 0.60 miles of river have dried at the "top of drying" since yesterday	0.00 (0 - 0)	Visual	3769937	327052	~	2	None
6:0	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Bottom of river drying	0.00 (0 - 0)	Visual	-	-	3733282	322934	None
6:0	Pump channel at South Boundary Bosque del Apache Refuge (RM 74)	Three pumps running	25 00 (25 - 25)	Visual	-	-	-		None
12:0	5 Rio Grande 2.5 miles downstream of South Boundary Bosque del Apache Refuge (RM 71.5)	Continuous flow	25,00 (25 - 25)	Visual	-	~	3	-	None
6:1	5 Rio Grande at San Marcial (RM 68.6)	Continuous flow	30 00 (30 = 30)	Visual	-	1000	(max)		None
7.1	5 Rio Grande 1.3 miles downstream of San Marcial (RM 67.3)	Continuous flow	27.50 (25 - 30)	Visual	~	-	-	=	None
8:0	Rio Grande at Ft, Craig (RM 64.8)	Continuous flow	30.00 (30 - 30)	Visual	-	-	-	-	None
8:3	Rio Grande at White Gate (RM 58.7)	Continuous flow	35,00 (35 - 35)	Visual	-	-	-	-	None

Sa	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
8-Sep-20	012	General Comments: The	river is dry or reduced to isolated poo	ols over a 29,9 mile segm	ent in the San Acacia	Reach.				
		Box	er is reduced to isolated pools over a indary Bosque del Apache (RM 74). innel is continuous in the San Acacia i	Some 5.3 miles of river ha						
		Rio Grande 0:25 miles downstream of Escondida Bridge (RM 103.9)	Top of river drying. Some 5.3 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3776784	326031	-	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	=	-	3733282	322934	Site not observed this date
9-Sep-20	012	Riv Box	eriver is dry or reduced to isolated poor er is reduced to isolated pools over a undary Bosque del Apache (RM 74), unnel is continuous in the San Acacia i	29.9-mile segment extend Some 5,3 miles of river ha	ling south from a point	0,25 miles d				
		Rio Grande 0.25 miles downstream of Escondida Bridge (RM 103.9)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3776784	326031	~	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	-	-	3733282	322934	Site not observed this date

Sa	ın A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
0-Sep-	2012	General Comments: Th	e river is dry or reduced to isolate	d pools over a 30,15 mile segr	nent in the San Acacia	a Reach.		1000		
		74	ver is reduced to isolated pools ov ). Some 0.25 miles of river have acia Reach.							
	5:30	Rio Grande at Escondida Bridge (RM 104.15)	Top of river drying. Some 0.2: miles of river have dried at the "top of drying" since yesterday		Visual	3777173	325970	-		None
	0:00	Rio Grande al South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	(-)	=	3733282	322934	None
1-Sep-7	2012	Riv 74 Th	e river is dry or reduced to isolate ver is reduced to isolated pools ov ). No change since yesterday: Aromas Archdeacon (USFWS) repo er in the vicinity of river miles 95 t	er a 30,15 mile segment exten side from this segment, flow in arts the addition of storm water	ding south from Esco the main river channe from Socorro's North	ndida Bridge el is continuo Diversion Ch	us in the Si annel or fr	an Acacia Ro om Escondid	each.	223040 27714 42304
	5:45	Rio Grande at Escondida	Top of over drying. No change		Visual	3777173	325970	ú		None
	0:00	Bridge (RM 104-15)  Rio Grande at South  Boundary Bosque del Apache	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	-	-	3733282	322934	Site not observed this date

	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Тор (N	- E)	Bottom	(N - E)	Comments
2-Sep-2	012	General Comments: The	river is dry or reduced to isolated po	ools over a 30,42 mile segme	ent in the San Acacia	a Reach.				
		74)	er is reduced to isolated pools over a . Some 0.27 miles of river have dried icia Reach.							
	7:00	Rio Grande at Nine Mile Outfall (RM 104.42)	Top of river drying. Some 0.27 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3777603	326014	-	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	=	-	3733282	322934	Site not observed this date
3-28b-5	012	General Comments:								
3-Sep-2	:012	Flo	w in the main river channel is believe I field observations. Some 30.42 mile				San Acadia	Reach bas	ed on USC	SS internet postings of flo
3-5ep-2		Flo					Sen Acecie	i Reach bas	ed on USC	USGS posted flows as
3-5 <b>8</b> p-2	12:15	Flor and Rio Grande at San Acada	fileld observations. Some 30.42 mile	as of river have rewet in this	reach of river since		San Acaçia	a Reach bas	ed on USO	USGS posted flows as high as 1700 cfs at 09:0
3- <b>5</b> 8 <b>p</b> -2	12:15 11:30	Rio Grande at San Acacia (RM 116.2)	field observations. Some 30.42 mile Flow estimate Flow estimate	as of river have rewel in this 900.00 (900 - 900)	reach of river since:		San Acadia	i Reach bas	ed on USC	USGS posted flows as high as 1700 cfs at 09 thrs. None Anticipate higher flow in
3- <b>3</b> 8p-2	12:15 11:30	Rio Grande at San Acacia (RM 116.2)  Socorro North Diversion Channel at I-25 (RM 102.39)  Brown Arroyo at I-25 (RM 96.8)	Flow estimate  Flow estimate	900.00 (900 - 900) 150.00 (100 - 200)	Visual		Sen Acadis	Reach bas	ed on USC	USGS posted flows as high as 1700 cfs at 09:0 hrs.  None  Anticipate higher flow in the arroyo over the next
3-58P-2	12:15 11:30 10:15	Flor and Rio Grande at San Acada (RM 116.2) Socorro North Diversion Channel at I-25 (RM 102.39) Brown Arroyo at I-25 (RM 96.8	Flow estimate  Flow estimate	900.00 (900 - 900) 150.00 (100 - 200) 2.50 (2 - 3)	Visual Visual Visual		Sen Acadis	Reach bas	ed on USC	USGS posted flows as high as 1700 cfs at 09:0 hrs.  None  Anticipate higher flow in the arroyo over the next several hours.

O.	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 83, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
4-Sep-2	012	General Comments:	w in the main river channel is	s believed to be continuous through	out the San Acacia Re	each based	on USGS	internet post	ings of flo	w and field observations.
		Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	1000.00 (1000 - 1000)	Visual	-	-	_	i men	None
		Rio Grande at San Marcial (RM 68.6)	Continuous flow	300.00 (300 - 300)	Visual	-	-	1-	-	Flood pulse just arrived
5-Sep-2	012	General Comments: Flow	v in the main river channel is	believed to be continuous throughout	out the San Acacia Re	ach based o	on USGS I	nternet postir	ngs of flow	and field observations.
15-Sep-2	10:30	Service electricity and a	v in the main river channel is Continuous flow	believed to be continuous througho	out the San Acacia Re Not available/applicable	ach based o	on USGS1	nternet postii	ngs of flow	and field observations. 3 pumps are in operation
	10:30	Flov Rio Grande at South Boundary Bosque del Apache			Not	ach based o	on USGS1	nternet postii	ngs of flow	
	10:30	Flow Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)  General Comments:	Continuous flow		Not available/applicable	2	2	9	3	3 pumps are in operatio
5-Sep-2	10:30	Flow Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)  General Comments:	Continuous flow	NA.	Not available/applicable	2	2	9	3	3 pumps are in operatio

Sa	ın A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
-Sep-2	2012	General Comments:	r in the main river channel is believed	to be continuous throu	ghout the San Acacia Rea	ach based o	on USGS in	nternet posti	ngs of flow	r and field observation:
	6.45	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	40.00 (40 ~ 40)	Visual	-	-		-	None
	5:30	Rio Grande lateral to Bosque del Apache Refuge headquarters (RM 78.75)	Continuous flow, no flow estimate	NA	Not available/applicable	-	~	-	=	None
	4:30	Rio Grande at River Widening (RM 77)	Continuous flow, no flow estimate	NA	Not available/applicable		-	-	-	None
	4:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Continuous flow, no flow estimate	NA	Not available/applicable	-	-	=	8	Note: 3 pumps are in operation.
3-Sep-2	2012	Rive	river is dry or reduced to isolated poor r is reduced to isolated pools over a this segment, flow in the main river of	13.1 mile segment exte	nding south from Hwy 380		to South E	oundary Bo	sque del A	Apache (RM 74). Asid
	7:45	Rio Grande at Hwy 380 (RM 87.1)	Top of over drying. Flow in the river became disrupted within the past 1 or 2 hours.	0.00 (0 - 0)	Visual	3754715	328893	-		None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	-	ù.	3733282	322934	Note: 3 pumps are in operation.

	ı A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordin 33, Zone 13)		
Date T	lime.	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
3-Sep-201	12 (	Rive	river is dry or reduced to isolated pox ir is reduced to isolated pools over a indary Bosque del Apache (RM 74)	25.0 mile segment extend	ling south from a point	0.11 miles d				
1		Rio Grande 0,11 miles downstream of Otero Street, Socorro (RM 99)	Top of river drying. River is slowly rewetting.	0.00 (0 - 0)	Visual	3770400	326991	-	-	None
		Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	=	(	3733282	322934	Site not observed this date
			channel is continuous in the San Ac							
		Rio Grande 1.0 mile downstream of Otero Street, Socorro (RM 98.2)	Top of river drying. Since yesterday, some 0.8 miles of river have rewet.	0.00 (0 - 0)	Visual	3769370	327509	-		None
	0:00	downstream of Otero Street.	yesterday, some 0.8 miles of	0.00 (0 - 0)	Visual	3769370	327509	3733282	322934	None
Sep-201	0:00	downstream of Otero Street. Socorro (RM 98.2) Rio Grande at South Boundary Bosque del Apache Refuge (RM 74) General Comments: The Rive	yesterday, some 0.8 miles of river have rewet. Presumed bottom of river	0.00 (0 - 0)  Dis over a 25 mile segments  25.0 mile segment extend	Visual If in the San Acacia R ling south from a point	each.	ownstream	of Olero St	reet, Soco	None orro (RM 99 0) to South

22-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 24.2 mile segment in the San Acadia Reach.  River is reduced to isolated pools over a 24.2 mile segment extending south from a point 1.0 mile downstream of Otero Street, Socorro (RM 98.2) to South Boundary Bosque del Apache (RM 74). Since yesterday, some 0.8 miles of river have rewet. Aside from this segment, flow in the main river channel is continuous in the San Acadia Reach.  Top of river drying. Since yesterday, some 0.8 miles of river have rewet.  Top of river drying. Since yesterday, some 0.8 miles of river have rewet.  Top of river drying. Since yesterday, some 0.8 miles of river have rewet.  Top of river drying. Since yesterday, some 0.8 miles of river have rewet.  Presumed bottom of river 0.00 (0 - 0) Visual 3769370 327509 — None drying.  Sa-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 26 mile segment in the San Acadia Reach.  River is reduced to isolated pools over a 26 mile segment in the San Acadia Reach.  River is reduced to isolated pools over a 26 mile segment in the San Acadia Reach.  River is reduced to isolated pools over a 26 mile segment in the San Acadia Reach.  Top of river drying. Since yesterday, 1.8 miles of river have rewet.  Top of river drying. Since yesterday, 1.8 miles of river have dried.  Top of river drying. Since yesterday, 1.8 miles of river have dried.  Top of river drying. Since yesterday, 1.8 miles of river have dried.  Top of river drying. Since yesterday, 1.8 miles of river have dried.  Top of river drying. Since yesterday, 1.8 miles of river have dried.  Top of river drying. Since yesterday, 1.8 miles of river have dried.  Top of river drying. Since yesterday. 1.8 miles of river have dried.	Ja	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordin 33, Zone 13)		
River is reduced to isolated pools over a 24.2 mile segment extending south from a point 1.0 mile downstream of Otero Street, Socorro (RM 98.2) to South Boundary Bosque del Apache (RM 74). Since yesterday, some 0.8 miles of river have rewel. Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.  10:00 Rio Grande 1.0 mile	Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
downstream of Otero Street. Socorro (RM 98.2) some 0.8 miles of river have rewet.  0:00 Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)  83-Sep-2012 General Comments: The river is dry or reduced to isolated pools over a 26 mile segment in the San Acacia Reach.  River is reduced to isolated pools over a 25 mile segment extending south from a point 0.78 miles upstream of Otero Street, Socorro (RM 100,0) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.  14:00 Rio Grande 0.78 miles upstream of Otero Street, Socorro (RM 100,0) to South Socorro (RM 100,0) to South Socorro (RM 100)  14:00 Rio Grande 0.78 miles upstream of Otero Street, Socorro (RM 100,0) to South Socorro (RM 100)  15:00 Rio Grande 0.78 miles upstream of Otero Street, Socorro (RM 100)  16:00 Rio Grande 4 South Presumed bottom of river 0.00 (0 - 0) Visual 3771756 327358 — None 3733282 322934 None	2-Sep-2	012	Rive Bou	r is reduced to isolated pools over a ndary Bosque del Apache (RM 74).	24.2 mile segment extend	ing south from a point	1.0 mile dow				
Boundary Bosque del Apache Refuge (RM 74)  General Comments: The river is dry or reduced to isolated pools over a 26 mile segment in the San Acada Reach.  River is reduced to isolated pools over a 26 mile segment extending south from a point 0.78 miles upstream of Otero Street, Socorro (RM 100,0) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acada Reach.  14:00 Rio Grande 0.78 miles upstream of Otero Street, yesterday, 1.8 miles of river Socorro (RM 100)  16:00 Rio Grande at South  17:00 Rio Grande at South  18:00 Rio Grande at South  19:00 Rio Grande at South			downstream of Otero Street	yesterday, some 0.8 miles of	0.00 (0 - 0)	Visual	3769370	327509	4	-	None
River is reduced to isolated pools over a 25 mile segment extending south from a point 0.78 miles upstream of Otero Street, Socorro (RM 100.0) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.  14:00 Rio Grande 0.78 miles			Boundary Bosque del Apache		0.00 (0 - 0)	Visual	-	=	3733282	322934	None
	:3-Sep-2	012	Rive	er is reduced to isolated pools over a	26 mile segment extendin	g south from a point 0	.78 miles ups				
	23-Sep-2		Rive Bou	r is reduced to isolated pools over a ndary Bosque del Apache (RM 74).	26 mile segment extendin Aside from this segment,	g south from a point 0 Now in the main river o	1.78 miles ups channel is cor	itinuous in			
	23-Sep-2	14:00	Rive Bou Rio Grande 0.78 miles upstream of Otero Street, Socorro (RM 100)	er is reduced to isolated pools over a ndary Bosque del Apache (RM 74). Top of river drying. Since yesterday, 1,8 miles of river have dried.	26 mile segment extendin Aside from this segment, 0.00 (0 - 0)	g south from a point 0 flow in the main river o Visuat	1.78 miles ups channel is cor	itinuous in	the San Act	acia Reach	None
General Comments: The river is dry or reduced to isolated pools over a 26 mile segment in the San Acada Reach.  River is reduced to isolated pools over a 26.0 mile segment extending south from a point 0.78 miles upstream of Olero Street, Socorro (RM 100.0) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acada Reach.		14:00	Rive Bou  Rio Grande 0.78 miles  upstream of Otero Street.  Socorro (RM 100)  Rio Grande at South  Boundary Bosque del Apache  Refuge (RM 74)  General Comments: The  Rive	Top of river drying. Since yesterday, 1.8 miles of river have dried.  Presumed bottom of river drying.	26 mile segment extendin Aside from this segment, 0.00 (0 - 0) 0.00 (0 - 0) ols over a 26 mile segmen 26.0 mile segment extend	g south from a point 0 Now in the main river of Visual Visual In the San Acacia R ling south from a point	3771756	327358	the San Act	322934	None None (RM 100.0) to South
River is reduced to isolated pools over a 26.0 mile segment extending south from a point 0,78 miles upstream of Otero Street, Socorro (RM 100.0) to South		14:00 0:00 012 8:00	Rive Boul  Rio Grande 0.78 miles upstream of Otero Street. Socorro (RM 100)  Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)  General Comments: The Rive Boul	r is reduced to isolated pools over a ndary Bosque del Apache (RM 74).  Top of river drying. Since yesterday, 1,8 miles of river have dried.  Presumed bottom of river drying.  river is dry or reduced to isolated pools over a ndary Bosque del Apache (RM 74).  Top of river drying. No change	26 mile segment extendin Aside from this segment, 0.00 (0 - 0) 0.00 (0 - 0) ols over a 26 mile segment 26.0 mile segment extend Aside from this segment,	g south from a point 0 flow in the main river of Visual Visual I in the San Acacia R ling south from a point	each.  1.78 miles upschannel is con	327358  327a58  pstream of	the San Act	322934	None None (RM 100,0) to South

	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordin 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
25-Sep-2	012	Rive	river is dry or reduced to isolated por er is reduced to isolated pools over a indary Bosque del Apache (RM 74),	26.0 mile segment extend	ing south from a point	0.78 miles u				
	8:00	Rio Grande 0.78 miles upstream of Otero Street, Socoro (RM 100)	Top of river drying, No change since yesterday.	0.00 (0 - 0)	Visual	377 1756	327358	-	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	=	-	3733282	322934	Site not observed this date
		Rio Grande 0.78 miles upstream of Otero Street, Socorro (RM 100)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3771756	327358	3733282	322934	None Site not observed this
		upstream of Otero Street.		0.00 (0 - 0)	Visual	3771756	327358	3733282	322934	
7-Sep-2	0:00	upstream of Otero Street, Socorro (RM 100) Rio Grande at South Boundary Bosque del Apache Refuge (RM 74) General Comments: The Rive	since yesterday.  Presumed bottom of river	0.00 (0 - 0)  ols over a 26 mile segment 26.0 mile segment extend	Visual It in the San Acacia Ri ling south from a point	each, 0.78 miles u	pstream of	f Otero Stree	et, Socorro	Site not observed this date
7-Sep-2	0:00	upstream of Otero Street, Socorro (RM 100) Rio Grande at South Boundary Bosque del Apache Refuge (RM 74) General Comments: The Rive	since yesterday.  Presumed bottom of river drying.  river is dry or reduced to isolated poor is reduced to isolated poor is reduced to solated poor is reduced to isolated	0.00 (0 - 0)  ols over a 26 mile segment 26.0 mile segment extend	Visual It in the San Acacia Ri ling south from a point	each, 0.78 miles u	pstream of	f Otero Stree	et, Socorro	Site not observed this date

Sa	ın A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordin 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
8-Sep-2	2012	Rive	river is dry or reduced to isolated poor ir is reduced to isolated pools over a indary Bosque del Apache (RM 74).	26.0 mile segment extend	ling south from a point	t 0.78 miles u				
	8:00	Rio Grande 0.78 miles	Top of river drying, No change since yesterday,	0.00 (0 - 0)	Visual	377 1756	327358	_		None
	0:00	Socorro (RM 100) Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	-	-	3733282	322934	Site not observed this date
9-Sep-		Rive Boul Rio Grande 1.29 miles	river is dry or reduced to isolated poor is reduced to isolated pools over a indary Bosque del Apache (RM 74). A	26.5 mile segment extend	ling south from a point	1.29 miles u				
		upstream of Otero Street, Socorro (RM 100,5)	yesterday, some 0.5 miles of river have dried at the "top of drying."							
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	-	_	3733282	322934	Site not observed the date
10-Sep-2	2012	Rive	river is dry or reduced to isolated poor r is reduced to isolated pools over a ndary Bosque del Apache (RM 74).	26.61 mile segment exten	iding south from a poi	nt 1,4 miles u				
	9:30	Rio Grande 1,4 miles upstream of Otero Street. Socorro (RM 100.61)	Top of river drying. Since yesterday, some 0.11 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3772633	327768	-	-	None

	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
1-Oct-20	12	Rive	river is dry or reduced to isolated poor er is reduced to isolated pools over a indary Bosque del Apache (RM 74).	26.61 mile segment exten	ding south from a poi	nt 1.4 miles u				
	1000	Rio Grande 1.4 miles upstream of Otero Street Socorro (RM 100.61)	Top of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	3772633	327768	-	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	=	-	3733282	322934	Site not observed this date
							unuous in	the San Act	acia Reaci	
				Aside from this segment,	Now III all a main fiver t	manna 12 agr	unidous in	the San Act	acia Reaci	
		Rio Grande 1.4 miles upstream of Otero Street Socorro (RM 100.61)	Top of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	3772633	327768	2	_	None
	0:00	upstream of Otero Street	Top of river drying. No change						322934	
3-Oct-20	0:00	upstream of Otero Street, Socorro (RM 100,61) Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Top of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	3772633		2	_	None Site not observed this
3-Oct-20	0:00	upstream of Otero Street, Socorro (RM 100,61) Rio Grande at South Boundary Bosque del Apache Refuge (RM 74) General Comments: The Rive	Top of river drying. No change from yesterday.  Presumed boltom of river drying.	0.00 (0 - 0) 0.00 (0 - 0) ols over a 26.61 mile segr 25.61 mile segment exten	Visual Visual nent in the San Acacia	3772633	327768	3733282	322934	None Site not observed this date  (RM 100.61) to South
3-Oct-20	0:00	upstream of Otero Street, Socorro (RM 100,61) Rio Grande at South Boundary Bosque del Apache Refuge (RM 74) General Comments: The Rive	Top of river drying. No change from yesterday.  Presumed bottom of river drying river is dry or reduced to isolated poor is reduced to isolated poor is reduced to isolated poor as	0.00 (0 - 0) 0.00 (0 - 0) ols over a 26.61 mile segr 25.61 mile segment exten	Visual Visual nent in the San Acacia	3772633	327768	3733282	322934	None Site not observed this date  (RM 100.61) to South

	Acacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordin 33, Zone 13)		
Date Tin	ne Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
04-Oct-2012	Rive	eriver is dry or reduced to isolated pox er is reduced to isolated pools over a a undary Bosque del Apache (RM 74).	26.61 mile segment exten	ding south from a poi	nt 1.4 miles u				
10:3	30 Rio Grande 1.4 miles upstream of Otero Street Socorro (RM 100.61)	Top of river drying, No change from yesterday.	0,00 (0 - 0)	Visual	3772633	327768	-	-	None
0:0	00 Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	=	-	3733282	322934	Site not observed this date
	50 Rio Grande 1.4 miles upstream of Otero Street, Socorro (RM 100.61)	Top of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	3772633	327768	2		None
	upstream of Otero Street.	from yesterday.  Presumed bottom of river	0.00 (0 - 0)	Visual	3772633	327768	3733262	322934	None Site not observed this date
	upstream of Otero Street, Socorro (RM 100,61) 10 Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	from yesterday.  Presumed bottom of river drying.  river is dry or reduced to isolated poor	0.00 (0 - 0) ols over a 26.61 mile segr	Visual ment in the San Acacia	a Reach.	-			Site not observed this date
0:0	upstream of Otero Street, Socorro (RM 100.61)  Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)  General Comments: The	from yesterday.  Presumed bottom of river drying.	0.00 (0 - 0) ols over a 26.61 mile segr 25.61 mile segment exter	Visual nent in the San Acacia ding south from a poi	a Reach	pstream of	Otero Stree	et, Socorro	Site not observed this date
0:0 6-Oct-2012	upstream of Otero Street, Socorro (RM 100.61)  Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)  General Comments: The	from yesterday.  Presumed bottom of river drying.  river is dry or reduced to isolated poorer is reduced to isolated pools over a	0.00 (0 - 0) ols over a 26.61 mile segr 25.61 mile segment exter	Visual nent in the San Acacia ding south from a poi	a Reach	pstream of	Otero Stree	et, Socorro	Site not observed this date

	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
7-Oct-20	12	Rive	river is dry or reduced to isolated pox er is reduced to isolated pools over a indary Bosque del Apache (RM 74).	26.61 mile segment exten	ding south from a poir	nt 1.4 miles u				
		Rio Grande 1.4 miles upstream of Otero Street Socorro (RM 100.61)	Top of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	3772633	327768	-	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	=	-	3733282	322934	Site not observed this date
		DOG	nusry Bosque del Apache (MN 74). 7	Aside Irom this segment.	low in the main river of	mannel is cor	itinuous in	the San Act	acia Reacr	
			ndary Bosque del Apache (RM 74). /		low in the main river o	manner is cor	itinuous in	the San Aca	acia Reacr	
		Rio Grande 1.4 miles upstream of Otero Street Socorro (RM 100.61) Rio Grande at South	Top of river drying. No change from yesterday.  Presumed bottom of river	0.00 (0 - 0)	Visual Visual	3772633	327768 —	- 3820041	335465	None Site not observed this
	0:00	Rio Grande 1.4 miles upstream of Otero Street Socorro (RM 100.61)	Top of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	3772633			_	
9-Oct-20	0:00	Rio Grande 1.4 miles upstream of Otero Street Socorro (RM 100.61) Rio Grande at South Boundary Bosque del Ápache Refuge (RM 74)	Top of river drying. No change from yesterday.  Presumed bottom of river	0.00 (0 - 0)	Visual Visual	3772633			_	None Site not observed this
9-Oct-20	0:00	Rio Grande 1.4 miles upstream of Otero Street Socorro (RM 100.61) Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)  General Comments: The	Top of river drying. No change from yesterday.  Presumed bottom of river drying.	0.00 (0 - 0)  0.00 (0 - 0)  ols over a 26.61 mile segrent exter	Visual Visual nent in the San Acacia	3772633	327768	3820041	335465	None Site not observed this date (RM 100.61) to South
9-Oct-20	0:00 12 8:00	Rio Grande 1.4 miles upstream of Otero Street Socorro (RM 100.61) Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)  General Comments: The	Top of river drying. No change from yesterday.  Presumed bottom of river drying.  river is dry or reduced to isolated poor is reduced to isolated pools over a	0.00 (0 - 0)  0.00 (0 - 0)  ols over a 26.61 mile segrent exter	Visual Visual nent in the San Acacia	3772633	327768	3820041	335465	None Site not observed the date  (RM 100.61) to South

	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
0-Oct-20	112	Rive	river is dry or reduced to isolated poor er is reduced to isolated pools over a indary Bosque del Apache (RM 74).	26.61 mile segment exten	ding south from a poi	nt 1.4 miles u				
	7:50	Rio Grande 1.4 miles upstream of Otero Street Socorro (RM 100.61)	Top of river drying. No change from yesterday.	0,00 (0 - 0)	Visual	3772633	327768	-	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	=	-	3820041	335465	Site not observed this date
			ndary Bosque del Apache (RM 74).		The state of the state of the state of	The second				
	2.50	ana nomina	a make 10 km km 0 m 0 m		0.70					
		Rio Grande 1.4 miles upstream of Otero Street, Socorro (RM 100.61) Rio Grande at South	Top of river drying. No change from yesterday.  Presumed bottom of river drying	0.00 (0 - 0)	Visual	3772633	327768	3733282	322934	None Site not observed this
		upstream of Otero Street, Socorro (RM 100,61)	from yesterday.			3772633	327768	3733282	322934	None Site not observed this date
2-Oct-2(	0:00	upstream of Otero Street, Socorro (RM 100.61) Rio Grande at South Boundary Bosque del Apache Refuge (RM 74) General Comments: The	from yesterday.  Presumed bottom of river drying river is dry or reduced to isolated poor	0.00 (0 - 0) Is over a 26.61 mile segr	Visual ment in the San Acacia	Reach.	-			Site not observed this date
2-Oct-2(	0:00	upstream of Otero Street, Socorro (RM 100,61) Rio Grande at South Boundary Bosque del Apache Refuge (RM 74) General Comments: The Rive	from yesterday.  Presumed bottom of river drying	0.00 (0 - 0) ds over a 26.61 mile segr 26.61 mile segment exter	Visual nent in the San Acacia ding south from a poi	Reach	pstream of	Otero Stree	et, Socorro	Site not observed the date  (RM 100.61) to South
2-Oct-2(	0:00	upstream of Otero Street, Socorro (RM 100,61) Rio Grande at South Boundary Bosque del Apache Refuge (RM 74) General Comments: The Rive	from yesterday.  Presumed bottom of river drying river is dry or reduced to isolated poor	0.00 (0 - 0) ds over a 26.61 mile segr 26.61 mile segment exter	Visual nent in the San Acacia ding south from a poi	Reach	pstream of	Otero Stree	et, Socorro	Site not observed the date  (RM 100.61) to South

Oa	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate		-	S Coordir 83, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
3-Oct-2	012	Rive	river is dry or reduced to isolated poor is reduced to isolated pools over a indary Bosque del Apache (RM 74),	25.49-mile segment exter	iding south from a poi	nt 0.4 miles u				
		Rio Grande 0.4 miles upstream of Otero Street, Socorro (RM 99.49)	Top of river drying, Since yesterday, some 1.12 miles of river have rewel at the "top of drying."	0.00 (0 - 0)	Visual	3771167	327121	- 100	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying,	0.00 (0 - 0)	Visual		-	3733282	322934	Site not observed this date
4-Oct-2	012	Rive	river is dry or reduced to isolated poor or is reduced to isolated pools over a ndary Bosque del Apache (RM 74).	25,49-mile segment exter	ding south from a poi	nt 0,4 miles u				
4-Oct-2	012	Rive	r is reduced to isolated pools over a	25,49-mile segment exter	ding south from a poi	nt 0,4 miles u				
4-Oct-2	14:00	Rive Bour Rio Grande 0.4 miles upstream of Otero Street, Socorro (RM 99.49)	er is reduced to isolated pools over a ndary Bosque del Apache (RM 74). Top of river drying. No change since yesterday.	25,49-mile segment exter Aside from this segment, 0.00 (0 - 0)	nding south from a poi flow in the main river o Visuat	nt 0,4 miles u		the San Aca	acia Reach	None
4-Oct-2	14:00	Rive Boul Rio Grande 0.4 miles upstream of Otero Street.	er is reduced to isolated pools over a ndary Bosque del Apache (RM 74). Top of river drying. No change	25,49-mile segment exter Aside from this segment,	ding south from a poli flow in the main river o	nt 0,4 miles u channel is cor	itinuous in			1
5-Oct-2	14:00	Rive Bour Rive Bour Rive Bour Rive Grande 0.4 miles upstream of Otero Street. Socorro (RM 99.49) Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)  General Comments: The Rive	er is reduced to isolated pools over a ndary Bosque del Apache (RM 74).  Top of river drying. No change since yesterday.  Presumed bottom of river	25,49-mile segment exter Aside from this segment, 0.00 (0 - 0) 0.00 (0 - 0) bis over a 25,49 mile segrent exter	nding south from a point of the main river of the Main river of Visual Visual onent in the San Acada ding south from a point in good the main and the main river of the main river	nt 0,4 miles ushannel is con 3771167 a Reach	327121	the San Act	322934	None None (RM 99.49) to South
	14:00 0:00 012	Rive Bour Rive Bour Rive Bour Rive Grande 0.4 miles upstream of Otero Street. Socorro (RM 99.49) Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)  General Comments: The Rive	r is reduced to isolated pools over a ndary Bosque del Apache (RM 74).  Top of river drying. No change since yesterday.  Presumed bottom of river drying.  river is dry or reduced to isolated pools over a	25,49-mile segment exter Aside from this segment, 0.00 (0 - 0) 0.00 (0 - 0) bis over a 25,49 mile segrent exter	nding south from a point of the main river of the Main river of Visual Visual onent in the San Acada ding south from a point in good the main and the main river of the main river	nt 0,4 miles ushannel is con 3771167 a Reach	327121	the San Act	322934	None None (RM 99.49) to South

Sai	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
6-Oct-20	12 (		river is dry or reduced to isolated poo				4.7	. 7. 7.	77.0	
			r is reduced to isolated pools over a 1 Apache (RM 74). Aside from this seg						87.4) to 5	South Boundary Bosqu
		Rio Grande 100 feet downstream of USGS gauge near US-380 (RM-87-4)	Top of river drying, River is still rewetting. Some 12.09 miles of river have rewet since yesterday.	0.00 (0 - 0)	Visual	3755340	328886	-	2	None
		Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0-0)	Visual	=	=	3733282	322934	Site not observed the date
-Oct-20	12 (	General Comments: The	river is dry or reduced to isolated poo	ls over a 11.72 mile segr	nent in the San Acacia	Reach.				E at 7
		Soul	r is reduced to isolated pools over an th Boundary Bosque del Apache (RM river channel is continuous in the Sa	74.0). Since yesterday,						
	19180	Rio Grande 1,57 miles downstream of Hwy 380 (RM 85,72)	Top of river drying. Since yesterday, 1.88 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3752326	329191	~	-	None
	1000	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	-	-	3752326	329191	Site not observed the

Sa	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordin 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
8-Oct-20	012	General Comments: The	river is dry or reduced to isolated poo	ls over a 18,41 mile segn	nent in the San Acacia	Reach.				V 7
		Bou	er is reduced to isolated pools over an indary Bosque del Apache (RM 74.0). I channel is continuous in the San Act	Since yesterday, some i						
	8:09	Rio Grande 4.85 miles upstream of Hwy 380 (RM 92.41)	Top of river drying. Since yesterday, 6.69 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3762178	328266	-	J	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0-0)	Visual	-	-	3733282	322934	Site not observed this date
9-Oct-20	012	General Comments: The	river is dry or reduced to isolated poo	ls over a 19.09 mile segr	nent in the San Acacia	a Reach.				
		Sou	er is reduced to isolated pools over a th Boundary Bosque del Apache (RM n river channel is continuous in the Sa	74.0) Since yesterday,						
	9:30	Rio Grande 0.78 miles downstream of Brown Arroyo (RM 93.09)	Presumed top of river drying. Since yesterday, some 0.68 miles of river dried at the top of river drying.	0,00 (0 - 0)	Visual	3762942	327781	~	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	-	~	3733282	322934	Site not observed in s date

San	Acacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordir 33, Zone 13)		
Date Tin	ne Location*	Observation	Avg (Range)	Туре	Тор (N	- E)	Bottom	(N - E)	Comments
0-Oct-2012	General Comments: The	river is dry or reduced to isolated poo	ls over a 19,09 mile segn	nent in the San Acacia	a Reach.		00	7	
		er is reduced to isolated pools over a tth Boundary Bosque del Apache (RM							
103	30 Rio Grande 0,78 miles downstream of Brown Arroyo (RM 93 09)	Top of river drying,	0,00 (0 - 0)	Visual	3762942	327781	-	-	None
0:	00 Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	=	-	3733282	322934	Site not observed this date
-Oct-2012	Riv Soi	e river is dry or reduced to isolated poor er is reduced to isolated pools over a ith Boundary Bosque del Apache (RM oyo: Aside from this segment, flow in	7.38-mile segment exten 74.0). Since yesterday,	ding south from a poi 1,71 miles of river ha	nt approximat	e "top of c			
10:	51 Rio Grande 2.3 miles downstream of Brown Arroyo (RM 91.38)	Top of river drying. Since yesterday, 1.71 miles of river have rewet at the "top of drying" due to short-term water input from Brown Arroyo.	0.00 (0 - 0)	Visual	3760635	328221	~	-	None
0:	00 Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0-0)	Visual	-	~	3733282	322934	Site not observed this date

San Acacia Reach	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordin 33, Zone 13)		
ate Time	≥ Location*	Observation	Avg (Range)	Туре	Тор (N	- E)	Bottom	(N - E)	Comments
Riv		The river is dry or reduced to isolated pools over a 17.38 mile River is reduced to isolated pools over a 17.38-mile segmento South Boundary Bosque del Apache (RM 74.0). Aside		ding south from a poi	oint approximately 1.24 r				
8:07	Rio Grande 1,24 miles upstream of Neil Cupp pump site (RM 91.38)	Top of river drying, No change since yesterday.	0.00 (0 - 0)	Visual	3760635	328221	-	3	None
0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	=	-	3733282	322934	Site not observed this date
	CE INTERNACE ATTENDED OF A 42.5	river is dry or reduced to isolated po-	ols over a 17,38 mile segn	nent in the San Acadia	Reach.				
9:3	Rive to S	er is reduced to isolated pools over a outh Boundary Bosque del Apache (I							

Sa	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate			S Coordin 33, Zone 13)		
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
24-Oct-2	012	General Comments: The	river is dry or reduced to isolated p	ools over a 16,04 mile segn	nent in the San Acaci	Reach.				0.79.000
		74.	er is reduced to isolated pools over a 0). Since yesterday, 1,34 miles of icia Reach.							
	7:30	Rio Grande at Neil Cupp pump site (RM 90.04)	Top of river drying. Since yesterday, 1.34 miles of river have rewet at the "top of drying." River is advancing downstream at time of observation.	0,00 (0 - 0)	Visual	3758810	328992	,=(	4	None
	0.00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying,	0.00 (0-0)	Visual	-	-	3733282	322934	Site not observed this date
5-Oct-2	012	Riv	river is dry or reduced to isolated per er is reduced to isolated pools over a Apache (RM 74.0). Since yesterda thuous in the San Acacia Reach.	a 14.0-mile segment extend	ing south from a poin	0.8 miles up				
	9:35	Rio Grande at 0.8 miles upstream of Hwy 380 (RM 88)	Top of river drying. Since yesterday, 2.04 miles of river have rewet at the "top of drying."	0,00 (0 - 0)	Visual	3755998	328979	=	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	-	-	3813556	334406	Site not observed this date

Sa	n A	cacia Reach	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13)				
Date 1	Time	Location*				Top (N	- E)	Bottom	(N - E)	Comments
6-Oct-2	012	General Comments: The	river is dry or reduced to isolated p	ools over a 13.71 mile segm	nent in the San Acacia	Reach.				7.1.5
		Bosi	er is reduced to isolated pools over que det Apache (RM 74.0). Since inuous in the San Acacia Reach.							
		Rio Grande 0,71 miles upstream of Hwy 380 (RM 88)	Top of river drying. Since yesterday, 2.04 miles of river have rewet at the "top of drying."	20.00 (20 - 20)	Visual	3755838	328961	e	9	River is rewetting with a advancing flow of 20 cfs
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	tan)	124	3733282	322934	Site not observed this date
7-Oct-2	012	Rive Bosi	river is dry or reduced to isolated p er is reduced to isolated pools over que del Apache (RM 74.0). Since inuous in the San Acacia Reach.	a 13.68-mile segment exten	ding south from a poi	nt 0,68 miles				
	8:30	Rio Grande 0,68 miles upstream of Hwy 380 (RM 87.68)	Top of river drying. Since yesterday, 0.03 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3755794	328954	ú	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache	Presumed bottom of river drying.	0.00 (0 = 0)	Visual	194	-	3733282	322934	Site not observed this date

Sa	n A	cacia Reach		Estimated Flow (cfs)	Flow Estimate	River Drying GIS Coordinates (UTM NAD 1983, Zone 13)				
Date	Time	Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom (N - E)		Comments
8-Oct-2	012	General Comments: The	river is dry or reduced to isolated p	ools over a 13,37 mile segn	nent in the San Acacia	a Reach.				
		Bos	er is reduced to isolated pools over a que det Apache (RM 74.0). Since inuous in the San Acacia Reach.							
	34,65	Rio Grande 0:37 miles upstream of Hwy 380 (RM 87:37)	Top of river drying. Since yesterday, 0.31 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3755327	328893	÷		None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	100	-	3733282	322934	Site not observed this date
9-Oct-2	012	Rive Bos	river is dry or reduced to isolated pi er is reduced to isolated pools over a que del Apache (RM 74.0). Since inuous in the San Acacia Reach.	13,32-mile segment exten	ding south from a poi	nt 0,32 miles				
	1,000,00	Rio Grande 0.32 miles upstream of Hwy 380 (RM 87.32)	Top of river drying. Since yesterday, 0.05 miles of river have rewet at the "top of drying."	0,00 (0 - 0)	Visual	3755242	328913	Ē	-	None
	0:00	Rio Grande at South Boundary Bosque del Apache	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	1000	(04)	3733282	322934	Site not observed this

San Acacia Reach  Date Time Location*		cacia Reach		Estimated Flow (cfs)	Flow Estimate	River Drying GIS Coordinates (UTM NAD 1983, Zone 13)				
		Location*	Observation	Avg (Range)	Туре	Top (N	- E)	Bottom	(N - E)	Comments
0-Oct-2	012	General Comments: The	river is dry or reduced to isolated poo	ols over a 13,2 mile segm	ent in the San Acadia	Reach.				
		del	er is reduced to isolated pools over a Apache (RM 74.0). Since yesterday tinuous in the San Acacia Reach.							
		Rio Grande 0.2 miles upstream of Hwy 380 (RM 87.2)	Top of river drying. Since yesterday, 0.12 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3755022	328961	-	-	None
	4.00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual		1444	3733282	322934	Site not observed this date
I-Oct-2	012	General Comments: The	e river is dry or reduced to isolated poo	ols over a 13.11 mile segn	nent in the San Acacia	Reach				
		Bos	er is reduced to isolated pools over a sque del Apache (RM 74.0). Since y Unious in the San Acacia Reach.							
	-,-,-	Rio Grande 0,11 miles upstream of Hwy 380 (RM 87.11)	Top of river drying. Since yesterday, 0.09 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3754890	328941	-	~	None
	(7)	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 = 0)	Visual	~	-	3813556	334406	Site not observed this date

<sup>\*</sup> For reference, the Los Lunas Bridge over the Rio Grande (NM 49) is at river mile 161.4, the Los Chavez Wasteway is at river mile 156.0, the Peralta Wasteway is at river mile 152.5, and the Belen Bridge over the Rio Grande (NM 6) is at river mile 149.5, U.S. Highway 380 is at river mile 87.1, South Boundary Bosque del Apache Refuge pump channel is at river mile 74.0, and Fort Craig is at river mile 64.8.

# APPENDIX C MIDDLE RIO GRANDE 2012 PUMPING OPERATIONS

## Bureau of Reclamation Middle Rio Grande Pumping Operations - 2012

Druma Cita	Month	Data	AM / DM	Number of	Calculated Flow	
Pump Site	Monin	Date	AMI/PM	Pumps Operating	Estimate (cjs) *	Comment
Neil Cupp	April					
		13-Apr-2012	2 AM	0	0	None
		20-Apr-2012		0	0	None
		27-Apr-2012	2 AM	0	0	None
Neil Cupp	May					
- · · · · · · · · · · · · · · · · · · ·		07-May-2012	2 AM	0	0	None
		-		0 0	0 0	None
		11-May-2012		_	-	
		14-May-2012		0	0	None
		18-May-2012		0 2	0	None
		21-May-2012	2 AM	2	14	Pumps were turned on 19- May-2012; Pumps will be turned off today
		23-May-2012	2 AM	0	0	None
		25-May-2012		0	0	None
		29-May-2012	2 AM	1	11	Pump will be shut off today
Neil Cupp	June					
		01-Jun-2012	2 AM	0	0	None
		04-Jun-2012		0	0	None
		06-Jun-2012		0	0	None
		08-Jun-2012		0	0	None
		11-Jun-2012		0	0	None
		13-Jun-2012	2 AM	0	0	None
		15-Jun-2012	2 AM	0	0	None
		18-Jun-2012	2 AM	0	0	None
		20-Jun-2012	2 AM	0	0	None
		22-Jun-2012	2 AM	0	0	None
		25-Jun-2012	2 AM	0	0	None
		27-Jun-2012	2 AM	0	0	None
		27-Jun-2012	2 AM	0	0	None
		29-Jun-2012	2 AM	0	0	None

<sup>\*</sup> Flow is estimated by calculation. If only one pump is running, flow is the product of the number of pumps times 11 cfs. If more than one pump is running, flow is the product of the number of pumps times 7 cfs.

				Number of	Calculated Flow	
Pump Site	Month	Date	AM / PM	Pumps Operating	Estimate (cfs) *	Comment
Neil Cupp	July					
		06-Jul-2012	2 AM	0	0	None
		06-Jul-2012	2 AM	0	0	None
		09-Jul-2012	2 AM	0	0	None
		11-Jul-2012	2 AM	0	0	None
		13-Jul-2012	2 AM	0	0	None
		20-Jul-2012	2 AM	0	0	None
		23-Jul-2012	2 AM	0	0	None
		25-Jul-2012	2 AM	0	0	None
		27-Jul-2012	2 AM	0	0	None
Neil Cupp	August					
	9	01-Aug-2012	2 AM	0	0	None
		03-Aug-2012		0	0	None
		06-Aug-2012		0	0	None
		08-Aug-2012		0	0	None
		13-Aug-2012		0	0	None
		15-Aug-2012		0	0	None
		17-Aug-2012		0	0	None
		20-Aug-2012		0	0	None
		21-Aug-2012		0	0	None
		22-Aug-2012		0	0	None
		23-Aug-2012		0	0	None
		23-Aug-2012		0	0	None
		24-Aug-2012		0	0	None
		27-Aug-2012		0	0	None
		28-Aug-2012		0	0	None
		29-Aug-2012		0	0	None
		31-Aug-2012		0	0	None

<sup>\*</sup> Flow is estimated by calculation. If only one pump is running, flow is the product of the number of pumps times 11 cfs. If more than one pump is running, flow is the product of the number of pumps times 7 cfs.

			Number of	Calculated Flow	,
Pump Site	Month Date	AM / PM	Pumps Operating		
Neil Cupp	September				
	05-Sep-201	2 AM	0	0	None
	07-Sep-201	2 AM	0	0	None
	10-Sep-201	2 AM	0	0	None
	12-Sep-201	2 AM	0	0	None
	14-Sep-201	2 AM	0	0	None
	17-Sep-201	2 AM	0	0	None
	26-Sep-201	2 AM	0	0	None
	28-Sep-201	2 AM	0	0	None
Neil Cupp	October				
	01-Oct-201	2 AM	0	0	None
	05-Oct-201	2 AM	0	0	None
	09-Oct-201	2 AM	0	0	None
	12-Oct-201	2 AM	0	0	None
	15-Oct-201	2 AM	0	0	None
	19-Oct-201	2 AM	0	0	None
	22-Oct-201	2 AM	0	0	None
	26-Oct-201	2 AM	0	0	None
	31-Oct-201	2 AM	0	0	None

<sup>\*</sup> Flow is estimated by calculation. If only one pump is running, flow is the product of the number of pumps times 11 cfs. If more than one pump is running, flow is the product of the number of pumps times 7 cfs.

				Number of	Calculated Flow	
Pump Site	Month	Date	AM/PM	Pumps Operating	Estimate (cfs) *	Comment
North Boundary	April					
2,01010 2000000000		12 Apr 2011	2 AM	0	0	None
		13-Apr-2012 20-Apr-2012		0	0	None
		27-Apr-2012		0	0	None
		27-Apr-2012	Z AIVI	U	O	None
North Boundary	May					
•	·	07-May-2012	2 AM	0	0	None
		11-May-2012		0	0	None
		14-May-2012		0	0	None
		18-May-2012		0	0	None
		21-May-2012		2	14	Pumps were turned on 19- May-2012; Pumps will be turned off today
		23-May-2012	2 AM	0	0	NBB pumps will turn on if 380 gage =100 cfs
		25-May-2012	2 AM	2	14	2 pumps going to 3 pumps today.
		29-May-2012	2 AM	3	21	One pump will be shut off today
North Boundary	June					
		01-Jun-2012	2 AM	2	14	None
		04-Jun-2012	2 AM	2	14	None
		06-Jun-2012	2 AM	2	14	None
		08-Jun-2012	2 AM	3	21	None
		11-Jun-2012	2 AM	3	21	None
		13-Jun-2012	2 AM	3	21	Going to 2 pumps today
		15-Jun-2012	2 AM	2	14	Going to 1 pump today
		18-Jun-2012	2 AM	0	0	None
		20-Jun-2012	2 AM	0	0	None
		22-Jun-2012	2 AM	0	0	None
		25-Jun-2012	2 AM	0	0	None
		27-Jun-2012	2 AM	0	0	None
		27-Jun-2012	2 AM	0	0	None
		29-Jun-2012	2 AM	0	0	None

<sup>\*</sup> Flow is estimated by calculation. If only one pump is running, flow is the product of the number of pumps times 11 cfs. If more than one pump is running, flow is the product of the number of pumps times 7 cfs.

Pump Site	Month	Date	ΔM / PM	Number of Pumps Operating	Calculated Flow Fetimate (cfs) *	
		Dute	AM / I M	1 umps Operating	Estimate (cjs)	Comment
North Boundary	July					
		06-Jul-2012	2 AM	0	0	None
		06-Jul-2012	2 AM	0	0	None
		09-Jul-2012	2 AM	0	0	None
		11-Jul-2012	2 AM	0	0	None
		13-Jul-2012	2 AM	0	0	None
		20-Jul-2012	2 AM	0	0	None
		23-Jul-2012	2 AM	0	0	None
		25-Jul-2012	2 AM	0	0	None
		27-Jul-2012	2 AM	0	0	None
North Boundary	August					
		01-Aug-2012	2 AM	0	0	None
		03-Aug-2012	2 AM	0	0	None
		06-Aug-2012	2 AM	0	0	None
		08-Aug-2012	2 AM	0	0	None
		13-Aug-2012	2 AM	0	0	None
		15-Aug-2012	2 AM	0	0	None
		17-Aug-2012	2 AM	0	0	None
		20-Aug-2012	2 AM	0	0	None
		21-Aug-2012	2 AM	0	0	None
		22-Aug-2012	2 AM	0	0	None
		23-Aug-2012	2 AM	0	0	None
		23-Aug-2012	2 AM	0	0	None
		24-Aug-2012	2 AM	0	0	None
		27-Aug-2012	2 AM	0	0	None
		28-Aug-2012	2 AM	0	0	None
		29-Aug-2012	2 AM	0	0	None
		31-Aug-2012	2 AM	0	0	None

<sup>\*</sup> Flow is estimated by calculation. If only one pump is running, flow is the product of the number of pumps times 11 cfs. If more than one pump is running, flow is the product of the number of pumps times 7 cfs.

				Number of	Calculated Flow	,
Pump Site	Month	Date	AM / PM	Pumps Operating		
North Boundary	Septem	ber				
		05-Sep-2012	2 AM	0	0	None
		07-Sep-2012	2 AM	0	0	None
		10-Sep-2012	2 AM	0	0	None
		12-Sep-2012	2 AM	0	0	None
		14-Sep-2012	2 AM	0	0	None
		17-Sep-2012	2 AM	0	0	None
		26-Sep-2012	2 AM	0	0	None
		28-Sep-2012	2 AM	0	0	None
North Boundary	October	<b>,</b>				
		01-Oct-2012	2 AM	0	0	None
		05-Oct-2012	2 AM	0	0	None
		09-Oct-2012	2 AM	0	0	None
		12-Oct-2012	2 AM	0	0	None
		15-Oct-2012	2 AM	0	0	None
		19-Oct-2012	2 AM	0	0	None
		22-Oct-2012	2 AM	0	0	None
		26-Oct-2012	2 AM	0	0	None
		31-Oct-2012	2 AM	0	0	None

<sup>\*</sup> Flow is estimated by calculation. If only one pump is running, flow is the product of the number of pumps times 11 cfs. If more than one pump is running, flow is the product of the number of pumps times 7 cfs.

- a		_		v	Calculated Flow	
Pump Site	Month	Date	AM / PM	Pumps Operating	Estimate (cfs) *	Comment
South Boundary	April					
		13-Apr-2012	2 AM	0	0	None
		20-Apr-2012		0	0	None
		27-Apr-2012		0	0	None
South Boundary	Mav					
~ · · · · · · · · · · · · · · · · · · ·		07-May-2012	2 AM	0	0	None
		11-May-2012		0	0	None
		11-May-2012 14-May-2012		0	0	None
		18-May-2012		0	0	None
		21-May-2012				None
		23-May-2012		0 0	0 0	SBB pumps will turn on if
		23-141ay-2012	Z AIVI	U	U	San Marcial >50 cfs
		25-May-2012	2 AM	3	21	None
		29-May-2012	2 AM	4	28	None
South Boundary	June					
•		01-Jun-2012	2 AM	4	28	None
		04-Jun-2012		4	28	None
		06-Jun-2012		4	28	None
		08-Jun-2012		4	28	None
		11-Jun-2012		4	28	None
		13-Jun-2012		4	28	None
		15-Jun-2012		4	28	None
		18-Jun-2012		4	28	None
		20-Jun-2012		4	28	None
		22-Jun-2012		4	28	None
		25-Jun-2012		4	28	None
		27-Jun-2012		4	28	None
		27-Jun-2012	2 AM	4	28	None
		29-Jun-2012	2 AM	4	28	None

<sup>\*</sup> Flow is estimated by calculation. If only one pump is running, flow is the product of the number of pumps times 11 cfs. If more than one pump is running, flow is the product of the number of pumps times 7 cfs.

				v	Calculated Flow	
Pump Site	Month	Date	AM / PM	Pumps Operating	Estimate (cfs) *	Comment
South Boundary	July					
		06-Jul-2012	2 AM	4	28	None
		06-Jul-2012	2 AM	4	28	None
		09-Jul-2012	2 AM	4	28	None
		11-Jul-2012	2 AM	4	28	None
		13-Jul-2012	2 AM	4	28	Going to 3 pumps today
		20-Jul-2012	2 AM	3	21	None
		23-Jul-2012	2 AM	3	21	None
		25-Jul-2012	2 AM	3	21	None
		27-Jul-2012	2 AM	3	21	None
South Boundary	Auoust					
ouin Boundary	11ugusi	04 A 0046	2 414	2	04	Nama
		01-Aug-2012		3	21 21	None None
		03-Aug-2012		3	21	None
		06-Aug-2012		3	21	None
		08-Aug-2012		3		
		13-Aug-2012		3 3	21 21	None None
		15-Aug-2012			21	None
		17-Aug-2012		3	21	None
		20-Aug-2012		3		None
		21-Aug-2012		3 3	21 21	None
		22-Aug-2012			21	None
		23-Aug-2012		3	21	None
		23-Aug-2012		3		
		24-Aug-2012 27-Aug-2012		3 3	21 21	None Will scale back the RPM's
						today
		28-Aug-2012	2 AM	3	21	None
		29-Aug-2012	2 AM	3	21	None
		31-Aug-2012	2 AM	3	21	None

<sup>\*</sup> Flow is estimated by calculation. If only one pump is running, flow is the product of the number of pumps times 11 cfs.

If more than one pump is running, flow is the product of the number of pumps times 7 cfs.

				Number of	Calculated Flow	,
Pump Site	Month	Date	AM/PM	Pumps Operating	Estimate (cfs) *	Comment
South Boundary	Septem	ber				
		05-Sep-2012	2 AM	3	21	None
		07-Sep-2012		3	21	None
		10-Sep-2012	2 AM	3	21	None
		12-Sep-2012	2 AM	3	21	None
		14-Sep-2012	2 AM	3	21	None
		17-Sep-2012	2 AM	3	21	None
		26-Sep-2012	2 AM	3	21	None
		28-Sep-2012	2 AM	3	21	None
South Boundary	Octobei	r				
		01-Oct-2012	2 AM	3	21	None
		05-Oct-2012	2 AM	3	21	None
		09-Oct-2012	2 AM	3	21	None
		12-Oct-2012	2 AM	3	21	None
		15-Oct-2012	2 AM	3	21	None
		19-Oct-2012	2 AM	3	21	None
		22-Oct-2012	2 AM	3	21	None
		26-Oct-2012	2 AM	3	21	None
		31-Oct-2012	2 AM	3	21	None

<sup>\*</sup> Flow is estimated by calculation. If only one pump is running, flow is the product of the number of pumps times 11 cfs. If more than one pump is running, flow is the product of the number of pumps times 7 cfs.

RiverEyes Observations for 2012
Approximate D
APPENDIX D - SPREADSHEET ACCOUNTS OF 2012 RIVEREVES OBSERVATIONS

### June 2012 (San Acacia Reach)

18									I	Day	of	Mo	nth																			
15.5				2	3		5			8			11			14		16	17	18	19		21	22	23	24		26		28		30
140   150	San Acacia 116.2 (CFS)		176			184		171		194			186		##		157			130		##		83			68		114		54	
1114   114		115.0																														П
1150   1150	One Mile Stop 114.8		_	1																	Ш							Н		₩		Н
1112   1   1   1   1   1   1   1   1																Н					Н									$\vdash$		Н
1119   1119				匚													П				П	П	П					П		$\Box$		$\square$
1112   112			<del>                                     </del>	╁	$\vdash$	-	_	Н			┢	-	┢		_	Н	-	Н	H		Н	_	Н	Н	Н	┢	_	-		╁╌	-	Н
1164   164		111.5		匚							匚				$\equiv$						П	П	П							口		Ø.
1948   1948			-	┢			H	Н	H	H	Н	H	Н		Н	Н		Н	Н	-	Н	Н	Н	Н	Н	Н	H	₩	H	₩		Н
March   Marc																					Н							Н		$\vdash$		П
196.5				匚				П			П		П				П	П			П	П	П			П		П		口		$\square$
March   Marc			lacksquare	╁	Н	-	Н	$\vdash$	Н	-	┢	Н	₩	H	Н	-	-	$\vdash$	Н	-	Н	Н	Н	-	-	┢	⊢	┢	Н	╁	-	Н
		108.0		匚																												
1965	Ii4 Dii 107 1			<u> </u>	Ш	-	_			_	<u> </u>	<b>.</b>	<b>.</b>	Ш	Ш	-	-	Ш	Щ		Ш	Ш	ш	<b>.</b>	<b>.</b>	Ш	_	₩.	Ш	₩		
Second Decomposition   1965	Lemitar Diversion 107.1																											Н		H		П
Second In Park   1962						ш		Ш					П								П	П	П			П		П		П		$\square$
Marcon Discrepance   Marcon	LFCC Outfall (9 mile)		┞	1				Н					Н			Н		Н			Н					Н		Н		$\vdash$		Н
N. Sectors 1914. Channel 1912.5    1915.5   1915	Escondida Br 104.8	104.5		匚																												$\square$
N. Stoomer Dist. Channel 1925    186.				H	$\vdash$	H	H	H	H	H	H	H	H	H	Щ	Щ	H	H	H	$\vdash$	Щ	Н	Н	H	H	H	H		H	H	H	Н
Nonemon Pix Chamael 1825   1825		103.0		┢					Н		L		Н		Н	Н	Н	Н	Ш		Н	Н	Н	Н	Н	Н	Ш		Н	┢		H
1965   1965	N. Socorro Div. Channel 102.5	102.5	П	П		П				П			П					П						П	П	П	П	П	П	П		П
Mathematic North Math			$\vdash$	₩	H	$\vdash$	$\vdash$	$\vdash$	Н	Н	$\vdash$	$\vdash$	$\vdash$	$\vdash$	Н	Н	Н	$\vdash$	Н	H	Н	Н	Н	Н	Н	Н	$\vdash$	$\vdash$	Н	$\vdash$	Н	Н
1960   1961   1962	Escondida Drain Outfall 101.1	101.0																														$\square$
98.5   1   2   1   2   2   3   4   5   6   7   8   8				<u> </u>	Ш	-	_			_	<u> </u>	<b>.</b>	<b>.</b>	Ш	Ш	-	$\square$	Ш	Щ		Ш	Ш	ш	<b>.</b>	<b>.</b>	Ш	_	₩.	Ш	₩		
Others Nirect 99.2  98.6  98.6  98.7  98.6  98.7  98.7  98.7  98.8			-	I		_	Н	$\vdash$	Н		$\vdash$	Н	$\vdash$	Н	-	$\vdash$			Н		Н	Н	Н			Н	Н	$\vdash$	Н	$\vdash$		H.
98.5   1   1   1   1   1   1   1   1   1			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
98.0   9.6	Otero Street 99.2		$\vdash$													Н					Н							Н		$\vdash$		H
97.0   9.5   9.6		98.0																												П		
96.0   96.0   96.0   97.0   98			<b>!</b> —	<del>  _ </del>	_	_					-	_	-		_	-		-	_		Н					-	_	-		₩.		Н
95.5			-	I		_	Н	$\vdash$	Н		$\vdash$		$\vdash$	Н	-	$\neg$			Н		Н	Н	Н			Н	Н	$\vdash$	Н	$\vdash$		H.
98.5   98				匚													П				П	П	П					П		$\Box$		
Brown Arroyo 94.1  94.0  94.0  95.0			lacksquare	╁	Н	-	$\vdash$	$\vdash$	Н	-	┢	Н	₩	H	Н	-	-	$\vdash$	Н	-	Н	Н	Н	-	-	┢	⊢	┢	Н	╁	-	
93.0   93		94.5																			П									口		
9.20.   9.21   9.22   9.25   9	Brown Arroyo 94.1		<b>!</b> —	₩	Н	_	_	Н	Н	H	Н	H	Н	H	Н	Н	-	Н	Н	-	Н	Н	Н	Н	Н	Н	H	₩	H	₩		
92.5   91			lacksquare	╁		_	<del>                                     </del>	Н	Н	Н	$\vdash$	Н	$\vdash$	Н	-	-	Н	$\vdash$	Н	_	т	Н	Н	Н	Н	$\vdash$	<del>                                     </del>	$\vdash$	H			
91.5				匚													П				П	П	П					П				
Neil Cupp  90.5  90.5  8	-		<del> </del>	╀─	Н	-	_	H	H	Н	├	-	┢	H	_	Н	Н	₩	H	-	Н	_	Н	Н	Н	╀	<b>!</b> —	-		╬		
90.0   90		91.0																														
99.5   99	Neil Cupp		-	┢			H	Н	Н	H	Н	H	Н	Н	Н	Н	$\vdash$	Н	Н	-	Н	Н	Н	Н	Н	Н				+		
SS.5																																
88.0   87.5   87.6   87				匚							Ш		П			$\Box$			Ш													
STATE   STAT			$\vdash$	╁	Н	H	$\vdash$	H	Н	Н	$\vdash$	H	$\vdash$	H	Н	H	Н	Н	Н	Н	H	H	Н	Н								
San Antonio (U.S. 380) 87.1   87.0		87.5		匚																												
86.6   86.6   85.5   85.0	Son Antonio (U.S. 290) 97 1		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
85.5   85.0   84.5   84	3an Antonio (U.S. 360) 67.1																				Ш											
S5.0		86.0	Ш	匚		П		H		П	Щ	П	Щ	П	Щ	Ц	П	П	Щ	Ш	H	Щ										
N BDA 84.2			$\vdash$	╁─		Н	$\vdash$	$\vdash$	Н	Н	╁	┢	┢	₩	Н	Н	Н	$\vdash$	Н	$\vdash$	Н	Н										
83.5		84.5		匚							匚																					
S3.0	N BDA 84.2		⊩	╀	H	Н	$\vdash$	H	H	H	⊢		₽	╟	Н	Н	Н	Н	Н	H	Н											
S2.0		83.0																														
S1.5				$\vdash$	$\vdash$	H	H	H	H	H	$\vdash$	H	$\vdash$	H	Н	Н	$\vdash$	H	H													
81.0				L		H									Н	Н	Н															
S0.0		81.0	П	匚	П	П	П	П	П	П	匚		П	П		П																
79.5   79.0			$\vdash$	╀─	Н	Н	$\vdash$	$\vdash$	Н	Н	⊢	⊢	Н	₩	Н	Н	Н															
19.0		79.5		匚				口			口		口																			
78.0	PD 4 HO 78 75	79.0	H	ļΞ	HĪ	HĪ		H	П	H	μĪ	HĪ	HĪ	H	H	Щ	H															
77.5	БDA HQ /δ./5		Н	$\vdash$	H	$\vdash$	$\vdash$	$\vdash$	Н	Н	$\vdash$	$\vdash$	$\vdash$	H	Н	Н	Н															
Mid BDA Pumps (Old Site) 76.5 75.5 75.5 75.5 75.5 75.5 75.5 75.5		77.5	Ш	匚							П		П		Ш																	
76.0 75.5 75.0 74.5	Mid BDA Pumps (Old Site)		⊩	╀	H	Н	H	H	H	H	⊢		₽	╟	Н	Н	Н															
75.5 75.0 74.5	= Six umps (Grabite)	76.0		匚							匚																					
74.5		75.5	H	μĪ	П	H	F	尸	F	F	H	F	H	H	Д	Д	口															
S BDA 74.0		74.5	Н	1	Н	Н	Н	$\vdash$	Н	Н	$\vdash$	$\vdash$	Н	$\vdash$	Н	Н	Н															
	S BDA							Ш						Ш																		

## July 2012 (Isleta Reach)

														Da	y of	f M	onth															
	RM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Isleta Diversion 169.3	169.0			Ш	<b>!</b>	<b>!</b>			Ш														ш					Щ.	<del>                                     </del>	$\square$		
	168.5 168.0			╁	-	-												-				$\vdash$	$\vdash$				_	<del>                                     </del>	<del> </del>	-	_	
	167.5	H	1	$\vdash$	╁─	$\vdash$		Н	Н	Н	╫	Н			Н	т	Н		Н		Н	т	-					$\vdash$	1			Н
	167.0															П						П		П	Ш							
Alehandro Drain 166.5	166.5			Ш					Ш																							
USGS Gauge at Bosque Farms(CFS)	166.0						230			90		81		302							43			27		26		111				
240 W W 165.5	165.5	H	_	╁	╁	<del>                                     </del>		Н	$\vdash$	Н	╁		Н			Н	$\vdash$			$\vdash$		$\vdash$		-	-		<del>                                     </del>	-	+-			
	165.0																															
Cottonwood Rd 164.5	164.5			Ш	Ш			Ш	Ш	Ш	Ш	Ш	Ш		Ш	ш	$\square$		Ш		Ш	Ш	Ш	Ш	$\Box$				Ш			
	164.0	-	_	-	↓_	-		Ш	$\vdash$		-					$\vdash$	Ш	_					$\vdash$		_			-	<b>!</b> —			
	163.5 163.0	H	_	╁	╀	-		Н	₩	Н	╫		-			Н	Н	Н	Н	Н		Н		$\vdash$	ш		_	-	┼─			
	162.5																															
	162.0																															
	161.5	ш		Ш	╙			Ш	Ш	Ш	╙					Ш	Ш	Ш	Ш	Ш	Ш	Ш						Ш	╙			
Los Lunas (NM 49) 160.8	161.0 160.5	Н				-			Н																							
	160.5	$\vdash$	╫	$\vdash$	╫	╫	-	Н	╫	Н	╫	Н	-	_		-	-	-	Н	-	Н	-					<del>                                     </del>	<del>                                     </del>	+—			
	159.5	$\vdash$			1			П	m	Т	$\vdash$								П										1			
	159.0			П	口				Ш	匚	Ш																	Ш	I			
T. G	158.5	Щ	<b> </b>	Щ	Ш	Щ	$\vdash$	Щ	Щ	Ш	Ш	Щ	Щ	Щ	Щ	Щ	Щ	Щ									Ш	Ι—	╙			
El Cerro Tome / Los Lunas Airport	158.0 157.5	Н	<del>                                     </del>	╁	╀─	╀	$\vdash$	Н	₩	⊢	╀	Н	Н	Н	Н	Н	Н										Н	$\vdash$	$\vdash$			
Los Lunas River Widening	157.0	Н	╫	╁	╁	╁	$\vdash$	Н	$\vdash$	Н	$\vdash$	Н	Н	Н	Н	Н	Н										Н	$\vdash$	1			
Los Chavez WW (RM 156.7)	156.5				T			П	П	П	T	П																				
	156.0			П	口				П	匚	Ш																	Ш	I			
	155.5	lacksquare	ļ_	Ш	╙			Ш	щ	Ш	↓	lacksquare	_			Ш													<del>                                     </del>			
	155.0 154.5	-	-	╁	╀	╀─		Н		Н	╀	Н	-			Н											<b>!</b> —	-	<del>                                      </del>			
	154.0	$\vdash$	-	$\vdash$	╁	╫─		Н	╫	Н	╂		-	_		-											<del>                                     </del>	<del>                                     </del>	+—			
	153.5	m		$\Box$				П	П		$I^-$																	I	1			
	153.0																															
Peralta W W 152.5	152.5			Ш				Ш				ш																				
<b></b>	152.0 151.5	$\vdash$			-	-					-					$\vdash$												-	-		-	
	151.0	$\vdash$			$\vdash$	$\vdash$		Н		Н	$\vdash$					$\vdash$	$\vdash$	-1	Н							$\vdash$		$\vdash$	$\vdash$		-	
	150.5																															
LP1DR (Allsups)	150.0	$\Box$		Ш	Ш												Ш															
D. I. D. ODA CH. 2000 140 5	RM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Belen Br (NM 6 Hwy 309) 149.5	149.5 149.0	$\vdash$			╫╌	-		Н			╀					$\vdash$	$\vdash$	-	Н			$\vdash$	$\vdash$	$\vdash$	_	$\vdash$		$\vdash$	1	-	-	
	148.5	m		$\Box$	T	İΠ		П	П		$I^-$	М				П	П		П			П	П	$\Box$	-			I	1			
	148.0								Ш															П	Ш							
AT&SF RR 147.7	147.5	Щ.			<u> </u>	↓		Ш	Ш	Ш	╙					Ш	Ш	-	Ш			Ш	Ш		ш		_	ļ	<b>!</b> —			
	147.0 146.5	$\vdash$			-	-					-					$\vdash$		_				$\vdash$	-		_			-	-		-	
	146.0	$\vdash$	╫	$\vdash$	╫	╫	-	Н	╫	Н	╫	Н	-	_		-	-	-	Н	-	Н	-	-	-	-		<del>                                     </del>	<del>                                     </del>	+—	-	-	
	145.5	m		П	✝	I		П	П	Т	⇈	П				П	т		П		П	П							I			П
	145.0																															
LP2DR 144.7	144.5	ш																														
Aerial Gas Line 143.8	144.0 143.5	$\vdash$			-	-					-					$\vdash$		_				$\vdash$	-		_			-	-		-	
Actial Gas Line 143.8	143.0	$\vdash$			$\vdash$	$\vdash$		Н		Н	$\vdash$					$\vdash$	$\vdash$	-1	Н				$\vdash$		_	$\vdash$		$\vdash$	$\vdash$		-	
	142.5			П																												
	142.0	Щ		آللا	لللا	لتلا	آتـــا	П	IJ	Ш	IJ	П	Щ	لتسا	П	ĮД	Д		П	П	П	П	H	П	ш	ш			لتسل	H	ш	F
	141.5	Н	<b> </b>  _	₩	╙	$\vdash$	$\vdash$	Н	$\vdash$	Ш	Ш	Н	Щ	Ш	Н	Н	Н	Щ	Н	Н	Н	Н	Н	Н	Ш	$\vdash$	Ш	$\vdash$	1—	ш	Ш	Н
Jarales Rd Br 140.8	141.0 140.5	Н	╂—	╁	╁	╁	$\vdash$	Н	₩	Н	$\vdash$	Н	Н	Н	Н	Н	Н	╟┤╢	Н	Н	Н	Н	Н	Н	Н	$\vdash$	Н	$\vdash$	╁	$\vdash$	Н	Н
Storrie W W 140.1	140.0			П					П	П	П						П															
	139.5			П	口						П																					
	139.0	Щ	با	Щ	لــــلا	آسلا	آلـــا	Щ	Щ	ш	لــــلا	Щ	Щ	Щ	Щ	Щ	ĮЦ	Щ	Щ	Щ	Щ	Щ	Щ	Щ	ш	آبا	لــــا	لسلا	آسلا	آب	Щ	Щ
Abo Arroyo 138.8	138.5	$\vdash$	-	$\vdash$	╀	-		Н	₩	┞	╀	Н	_			$\vdash$	$\vdash$	-	Н	-		$\vdash$		-	-		_	_	<del>                                     </del>	-		Ш
	138.0 137.5	Н	╫─	╁	╁─	╁	$\vdash$	Н	H	┢	$\vdash$	Н	Н	Н	Н	Н	Н	╟┤╢	Н	Н	Н	Н		Н	Н		┢	$\vdash$	+	$\vdash$	Н	Н
				П	╚			П			Г	П																				
	137.0				口				Ш	匚	Ш																	Ш	I			П
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July 2012 (San Acacia Reach)

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#### August 2012 (Isleta Reach)

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## August 2012 (San Acacia Reach)

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## September 2012 (Isleta Reach)

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FI Come Toma (Los Los	158.5			$\mathbb{F}_{-}$	$\mathbb{L}$		$\mathbb{I}_{-}$		$\mathbb{F}_{-}$																		II				
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LP1DR (Allsups)	150.0 RM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	19	10	20	21	22	22	24	25	26	27	28	29	30
Belen Br (NM 6 Hwy 309) 149.5	149.5	1		3	1	1	1	<u>'</u>	8	ľ	10	11	12	13	17	13	10	17	10	17	20	21	22	23	24	23	20		20	29	30
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LP2DR 144.7 Aerial Gas Line 143.8	148.5 148.0 147.5 147.0 146.5 146.0 145.5 144.0 143.5 143.0 142.5 142.0 141.0																														
LP2DR 144.7  Aerial Gas Line 143.8  Jarales Rd Br 140.8	148.5 148.0 147.5 147.0 146.5 146.0 145.5 145.0 144.5 144.0 143.5 143.0 142.5 142.0 141.5																														
LP2DR 144.7 Aerial Gas Line 143.8	148.5 148.0 147.5 147.0 146.5 146.5 145.0 144.5 144.5 144.0 143.5 143.0 142.5 142.0 141.5 141.0																														
LP2DR 144.7  Aerial Gas Line 143.8  Jarales Rd Br 140.8	148.5 148.0 147.5 147.0 146.5 146.0 145.5 144.5 144.5 144.5 144.0 143.5 142.0 141.5 142.0 141.5 141.0																														
LP2DR 144.7  Aerial Gas Line 143.8  Jarales Rd Br 140.8	148.5 148.0 147.5 147.0 146.5 146.5 145.0 144.5 144.0 143.5 143.0 142.5 141.0 141.5 141.0 140.0 139.5 140.0																														
LP2DR 144.7  Aerial Gas Line 143.8  Jarales Rd Br 140.8 Storrie W W 140.1	148.5 148.0 147.5 147.0 146.5 146.5 145.0 144.5 144.0 143.5 143.0 142.5 142.0 141.1 140.0 139.5 139.5 139.5 138.0																														
LP2DR 144.7  Aerial Gas Line 143.8  Jarales Rd Br 140.8 Storrie W W 140.1	148.5 148.0 147.5 147.0 146.5 145.5 145.0 144.5 144.0 143.5 143.0 142.5 142.0 141.5 140.0 139.5 139.0 139.5 139.0																														
LP2DR 144.7  Aerial Gas Line 143.8  Jarales Rd Br 140.8 Storrie W W 140.1	148.5 148.0 147.5 147.0 146.5 146.5 145.0 145.5 145.0 144.5 143.0 142.5 142.0 141.5 141.0 140.0 139.5 139.0 138.5 138.0 137.5 137.0																														
LP2DR 144.7  Aerial Gas Line 143.8  Jarales Rd Br 140.8 Storrie W W 140.1	148.5 148.0 147.5 147.0 146.5 145.5 145.0 144.5 144.0 143.5 143.0 142.5 142.0 141.5 140.0 139.5 139.0 139.5 139.0																														
LP2DR 144.7  Aerial Gas Line 143.8  Jarales Rd Br 140.8 Storrie W W 140.1	148.5 148.0 147.5 147.0 146.5 146.5 145.0 145.5 145.0 144.5 143.0 144.5 143.0 141.5 142.0 141.5 141.0 140.0 139.5 138.0 137.5 137.0 136.5 137.0 136.5																														
LP2DR 144.7  Aerial Gas Line 143.8  Jarales Rd Br 140.8 Storrie W W 140.1	148.5 148.0 147.5 147.0 146.5 146.5 145.0 145.5 145.0 144.5 144.0 144.5 143.0 142.5 142.0 141.5 141.0 139.5 139.0 138.5 138.0 137.5 137.0 136.5 136.0 135.5																														
LP2DR 144.7  Aerial Gas Line 143.8  Jarales Rd Br 140.8  Storrie WW 140.1  Abo Arroyo 138.8	148.5 148.0 147.5 147.0 146.5 146.0 145.5 145.0 144.5 144.0 143.5 143.0 142.5 142.0 141.5 141.0 140.5 139.5 138.0 137.5 137.0 136.5 136.0 135.5 135.0																														
LP2DR 144.7  Aerial Gas Line 143.8  Jarales Rd Br 140.8 Storrie W W 140.1	148.5 148.0 147.5 147.0 146.5 146.5 145.0 145.5 145.0 144.5 144.0 143.5 144.0 141.5 141.0 140.0 139.5 138.5 138.0 137.5 137.0 136.0 135.5 135.0 135.0																														
LP2DR 144.7  Aerial Gas Line 143.8  Jarales Rd Br 140.8  Storrie WW 140.1  Abo Arroyo 138.8	148.5 148.0 147.5 147.0 146.5 146.5 145.0 144.5 144.5 144.0 143.5 143.0 142.5 141.0 140.5 140.0 139.5 138.0 137.5 136.0 136.0 135.5 135.0 134.0 134.5 134.0 133.5																														
LP2DR 144.7  Aerial Gas Line 143.8  Jarales Rd Br 140.8  Storrie W W 140.1  Abo Arroyo 138.8	148.5 148.0 147.5 147.0 146.5 146.0 145.5 145.0 144.5 144.0 143.5 143.0 141.5 144.0 140.0 139.5 138.5 138.0 137.5 136.0 135.5 136.0 135.5 136.0 134.5 134.0 134.5																														
LP2DR 144.7  Aerial Gas Line 143.8  Jarales Rd Br 140.8  Storrie WW 140.1  Abo Arroyo 138.8	148.5 148.0 147.5 147.0 146.5 146.5 145.0 145.5 145.0 144.5 143.0 142.5 142.0 141.5 140.0 139.5 138.5 138.0 137.5 136.5																														
LP2DR 144.7  Aerial Gas Line 143.8  Jarales Rd Br 140.8  Storrie WW 140.1  Abo Arroyo 138.8	148.5 148.0 147.5 147.0 146.5 146.0 145.5 145.0 144.5 144.0 143.5 143.0 141.5 144.0 140.0 139.5 138.5 138.0 137.5 136.0 135.5 136.0 135.5 136.0 134.5 134.0 134.5																														

## September 2012 (San Acacia Reach)

	RM	1	1	2	4	-		7	8	А	10	7.1	12	Ion	14	15	14	17	10	10	20	21	22	22	24	25	20	27	28	29	20
San Acacia 116.2 (CFS)	116.0	1	2	3	4	20	6	5	8	9	5	11	2.	13	##	15	16	8	18	19	20	41	22	2.5	24	45	7	27	28 7	29	30
San Acacta 110.2 (CFS)	115.5					20							-		mm												,		,		
	115.0														Ш								Ш								
One Mile Stop 114.8	114.5		Ш	Щ		ш	Ш	Ш	Ш	Ш	Щ	Ш	Ш	ш		Ш	Ш	Ш	ш	Ш	Ш	Щ	Ш	Щ	Ш	Ш	Ш	Ш	ш		Щ
	114.0		Ш	Щ	ш	╙	Ш	╙	lacksquare	ш	Ш	╙	Ш	ш	Ш	Щ	Ш	ш	Ш	Щ	Щ	Ш	ш	↓_	$\vdash$	Ш	Щ	Щ	ш	$\square$	<b> </b>
	113.5 113.0		Н	Н	Н	╀	╙	╀		Н	_	╀	_	Н	ш	Ш	Н	Н	ш	_	-	Н	Н	╀	$\vdash$	ш	Н	Ш	-	$\vdash$	┞—┼
	112.5		Н	Н	Н	╫┈	╫	╫	Н	Н	Н	╫	-	Н	-	Н	Н	Н	-	-	-	Н	_	╫		Н		Н	-		<del>├</del>
	112.0					I	T	T	т	Н		T			т	М	Н	Н	т			П	Т	✝				М		$\Box$	
	111.5					T	Т	Т		П		Т	Г						$\Box$		П	П	Т	т							
	111.0														П								Ц								
	110.5		Ш	Щ		↓	Ш	Ш		Ш	Ш	Ш	Ш	Ш	Ш	Щ	Ш	Ш	ш	Ш	Ш	Ш	ш	↓		Ш	Ш	Щ	$\Box$		<b> </b>
	110.0		Н	Н	Н	╀	╀	╀		Н	_	╀	_	Н	ш	Ш	Н	Н	ш	_	-	Н	Н	╀	$\vdash$	ш	Н	Н	-	$\vdash$	┞—┼
	109.5 109.0		Н			╫	╫	╫		$\vdash$		╫	-	Н	_	Н	Н	Н	Н	Н		Н	Н	╁	$\vdash$	Н	$\vdash$	Н	-	$\vdash$	╂─╂
	108.5				Н	$\vdash$	${}^{\dagger}$	${}^{\dagger}$		$\vdash$		${}^{\dagger}$	Н	Н	Н	Н	Н	Н	Н			Н	Н	╁	$\vdash$			Н	-	$\vdash$	╁╌╁
	108.0		П	П	П		П	П	П	П	П	П	Г	П	П		П	П		П	П	П	Т	T							
	107.5																														
Lemitar Diversion 107.1	107.0				Ц		Ш	Ш				Ш		Ш									Ш	П	Ш	Ц	Ш				
	106.5					↓	_	_			Щ	_		ш		Ш		ш	ш	$\Box$	ш	Щ		↓			Ш		-		
	106.0		$\vdash$	щ	ш	↓	╙	╙	ш	ш	Щ	╙	Щ	Ш		Ш	ш	ш	ш	щ	щ	Н	ш	₩	$\vdash$	ш		Ш	-	$\square$	
TEGGO (CH (O T))	105.5	-	$\vdash$	-	-	╀	₩	╙		-	ш	╙	<b>!</b> —	$\vdash$	-	-	ш	ш	ш	—	-	ш	Н	╀	-	ш	-	ш	ш	-	┞╼┼
LFCC Outfall (9 mile) Escondida Br 104.8	105.0 104.5	Н	$\vdash$	₩	Н	╀	₩	₩	Н	$\vdash$	Н	₩	╟	Н	Н	Н	Н	Н	Н	Н	H	Н	Н	╀	₩	Н	₩	Н	Н	$\vdash$	╫╫
ESCORMINA DI 104.0	104.5	Н	Н	Н	Н	Н	Н	Н						Н	Н	Н	Н	Н	Н	Н	H	Н	Н	⇈	$\vdash$	Н	╟┤	Н	Н	$\vdash$	╫┈╫
	103.5	П	П	П	П	П	П	П						П	П	П	П	П	П	П	П	П	П	⇈		П	П	П	П		
	103.0						П	П						L																	
N. Socorro Div. Channel 102.5	102.5																							$\Box$							
	102.0	Щ	F	F	П	ĮŪ	ш	ш						Щ	Ш	Щ	Щ	آليا	Щ	$\square$	إتبا	П	匚	口	F	Ш	آليا	M	F	آلبا	μĪ
	101.5	Щ	Щ	Щ	Щ	ш	ш	ш						щ	щ	Щ	щ	щ	Щ	Щ	$\sqcup$	Н	щ	╙	Ш	Щ	Щ	Щ	Щ	$\square$	╙
Escondida Drain Outfall 101.1	101.0	Щ	H	₩	Н	₩	₩	₩						$\vdash$	Н	Щ	Н	щ	щ	щ	뮈	Н	Н	╀	₩	щ	₩	Щ	щ		
	100.5 100.0	Н	H	₩	Н	╀	₩	₩						Н	Н	Н	Н	Н	Н	H	H	Н	Н								
	99.5					$\vdash$	$\vdash$	$\vdash$						$\vdash$			-	Н				Н	Н	1							
	RM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Otero Street 99.2	99.0																														
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	94.5		П											П					$\neg$												
Brown Arroyo 94.1	94.0																														
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	87.5		•	•	•	_		_			40		- 10	40			46		40	40	•			-	21		26		**	**	20
San Antonio (U.S. 380) 87.1	RM 87.0	1	2	3	4	3	6	/	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	21	28	29	30
	86.5													Н	Н	Н	Н	Н													
	86.0													Н	М	П	Н	Н													
	85.5													П																	
	85.0																														
North Boundary pump channel	84.5													Ш	Щ	Щ	Щ	Щ													
N BDA 84.2	84.0													Н	ш	Щ	ш	Ш													
	83.5													Н	Ш	Щ	Н	Щ						F							
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DD 4 HO 50 55	79.0													Н	Ш	Щ	Н	Щ						F							
BDA HQ 78.75	78.5													$\vdash$	Н	Щ	Н	щ													
	78.0 77.5													Н	Н	Н	Н	Н													
	77.0													Н	Н	Н	Н	Н													
Mid BDA Pumps (Old Site)	76.5													Н	Н	Н	Н	Н													
En de marie	76.0													П	П	П	П	П													
	75.5																														
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S BDA	74.0													ii l	1 1	ii 11	1 1	11													T and the

### October 2012 (Isleta Reach)

#### Day of Month 11 12 13 14 15 sleta Diversion 169.3 169.0 168.0 167.0 Alehandro Drain 166.5 166.5 166.0 240 W W 165.5 165.5 165.0 Cottonwood Rd 164.5 164.5 164.0 163.5 163.0 162.5 162.0 161.5 Los Lunas (NM 49) 160.8 161.0 160.5 160.0 159.5 159.0 158.5 El Cerro Tome / Los Lunas Airport 158.0 157.5 Los Lunas River Widening 157.0 Los Chavez WW 156.5 156.0 155.5 155.0 154.5 154.0 153.5 153.0 Peralta W W 152.5 152.5 152.0 151.5 151.0 150.5 LP1DR (Allsups) 150.0 RM 12 13 14 Belen Br (NM 6 Hwy 309) 149.5 149.5 149.0 148.5 148.0 AT&SF RR 147.7 147.0 146.0 145.5 145.0 LP2DR 144.7 144.5 Aerial Gas Line 143.8 143.5 143.0 142.5 142.0 141.5 141.0 Jarales Rd Br 140.8 140.5 140.0 139.5 139.0 Abo Arroyo 138.8 138.5 138.0 137.5 137.0 136.5 136.0 135.5 135.0 134.5 Abeytas Heading 134.3 134.0 133.5 133.0 132.5 132.0 Just Upstream of Bernardo

### October 2012 (San Acacia Reach)

														Da	y of	f M	ontl	n															
	RM	1	2	3	4			1	7 :			10	11	12	13	14	15	16	17	18	19	20	21		23	24	25		27	28	29	30	
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	115.0	t	T	T	T	T	#	1	#	#	7						П			П				П									П
One Mile Stop 114.8	114.5			1		<u> </u>	1	1	1	1																							Ш
	114.0 113.5	┡	-	+	+	+	╫	+	+	+	-													-									₩
	113.0	t	+-	+-	1	+-	╫╴	#-	#	╫	-†	Н	Н	Н	Н	╫	$\vdash$			Н			-	т	-		Н	$\vdash$					Н
	112.5			Ι				Т						Ш																			
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	110.5	t	T	T	T	T	#	т	#	#	7						П			П				П									П
	110.0						I	Т	Т	Т	П						Ш							П									
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	109.0	╂╴	+-	╁	+-	+-	╫╴	#-	-#-	╫	-+	$\dashv$	Н	Н	Н	╟	$\vdash$	-		Н		Н	$\vdash$	Н	-	-	┞	-				-	-
	108.0					T	1			1																							
	107.5	↓_	4	↓_	4	4_	Щ.	4	Щ.	Щ.	_	Щ	Ш		Ш	Ш	ш	Ш					Ш	Ш	Ш		Ш	Ш	Ш		Ш	Ш	ш
Lemitar Diversion 107.1	107.0 106.5	-	+	+	+	+	╫	+	+	+	-												$\vdash$										₩
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	105.5																																
LFCC Outfall (9 mile)	105.0	₽-	μĪ	₩.	ΨĪ	ΨĪ	ΨĪ	¥	#	4	4	Щ	Щ	Щ	H	آــــاإ	Щ	Щ	H	H	H	H	Щ	Щ	Щ	H	H	Щ	H	H	Щ	H	لــــــــــــــــــــــــــــــــــــــ
Escondida Br 104.8	104.5 104.0	#	╫	+	╫	╫─	╫╴	#	╫	╢	-+	$\dashv$	Н	Н	H	⊢	Н	Н	H	H	H	H	Н	Н	Н	$\vdash$	$\vdash$	Н	$\vdash$	H	Н	$\vdash$	Н
	103.5	1	1	#	#	#-	╫╴	╫	╫	╫	<b>-</b> †	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	$\vdash$	Н	Н		Н
	103.0			Г	Т	Г	I	I		#	I																						口
N. Socorro Div. Channel 102.5	102.5	1	1	1	1	1	#	#			_	Ш	Ш	Ш	Н	Ш	Н	Ш	Н	Ш	Ш	Ш	Ш	Ш	Ш	Ш	Ш	Ш		Н	Ш		${f \sqcup}$
	102.0 101.5	1	#-	+	+	╙	╫	#	#	╫	+	$\dashv$	Н	Н	$\vdash$	$\vdash$	$\vdash$	Н	$\vdash$	Н	Н	Н	Н	Н	Н	Н	$\vdash$	Н	$\vdash$	$\vdash$	$\vdash$		Н
Escondida Drain Outfall 101.1	101.0			1	1	╚	╨	1	ⅎ	∄	_#	Ш	Н	Ш				H					Н	Н	Н								H
	100.5							П								匚											П						口
	100.0				4		╀	#	-	-#													Ш	Н	Ш		_	-			$\vdash$	-	ш
	99.5 RM	1	2	3	4	5	6	Ψ,	7 :	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Otero Street 99.2	99.0	Ĺ	Ĩ	Ĭ	Ť	Ĭ	Ů	Ш				10		12	10	1	10	10	1	10	.,	20	í		20	-	20	20		20	ì	50	
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APPENDIX E SAFETY DOCUMENTS



Project Name:	Project Manager:	Project Number:	Project Start Date:	Project Location: Middle Rio Grande, NM			
River Eyes	Mike Hatch	17402	May-11				
PM Author Name (list other contributors):	Project Descrip	otion:					
Mike Hatch, Franchesca Lucero	River Drving Su	River Drving Surveys					

Hannad Banadadian	Hannel Centrals
Hazard Description	
Vehicle Hazards (danger to dnver and / or passenger / grass or brush fire	<ul> <li>Complete SWGA Daily Vehicle Inspection Log. Address any delinquent issues identified during inspection. Wear seatbelts. Drive defensively. Use lights &amp; flashers when appropriate. While driving in rough terrain, stop vehicle, walk ahead of the vehicle for a short distance to identify hazards and look for areas to turn around, etc. Secure all loose objects in the passenger area or store in a separate storage area. Know the symptoms of fatigue. Take frequent breaks when driving long distances. Do not drive more than three hours without a break.</li> </ul>
	Park vehicles in locations that do not impede traffic flow. Back vehicles into parking slots when possible. Use spotter when the view of the parking area is obstructed. Do not breach berms or otherwise restricted roads. Do not park in arroyos or other areas prone to flash flooding when storms are likely. Follow the guidelines of "Tread Lightly."
	Vehicles traveling on unimproved roads may accumulate excessive amounts of dry vegetation on the undercarriage, resulting in potential fire danger. To prevent this, field personnel will visually inspect the undercarriage of parked vehicles and remove vegetation when necessary. Field vehicles will also be parked in areas with sufficient vegetation clearance to prevent vehicle fires.
Carrying field equipment	Employees shall not carry objects greater than 40lbs. (or any other weight that could result in injury) or greater than 8 feet without the aid of a mechanical device or the assistance of another employee. Watch for uneven surfaces or objects on the ground. Wear gloves where potential pinch points occur or where objects are able to cut you. Use any other applicable Personal Protection Equipment
Loading Equipment on/off Vehicle	Employees will secure all loads in or on vehicles using ropes, tie-downs, tarps, bungee cords, or other appropriate securing materials to keep load/equipment from shifting or falling.
Hiking and Working Remotely	Let others know the general location of your field work. Carry tools in hand, facing downslope, so they can easily be discarded. Wear boots with non-skild soles. Make sure your footing is secure. Tes each step. Be careful going downfill, especially after a long day. Try to keep one hand free while traversing up or down steep slopes. Wear appropriate footwear and clothing to ensure protection. If you fall, roll with the fall. Establish secure footing before taking the next step.
Blisters	Break in boots before field work! Steps on how to care for a blister; swab blister area with rubbing alcohol and let air dry. Sterilize a needle for 10 seconds in a flame. Puncture the edge of the blister near the skin. Apply gentle pressure to squeeze out fluid. Do not remove or rub off the top of the blister. Apply antibiotic cintment, but avoid alcohol or lodine. Cover with sterile gauze or bandage. Change the gauze or bandage daily. Cover the blister with a bandage.
Dense Vegetation (scratches from brush and trees, poison ivy or oak)	Be aware of potential hazards. Wear appropriate clothing to protect the skin. When moving through dense woody vegetation, always wear long sleeved shirt, long pants, closed toe shoes, safety glasses and gloves. Carry personal fist aid kits. Recognize hazardous vegetation and avoid contact. Apply by Block to exposed skin repeatedly while in infested area. Dispose of covers/gloves safety Decontaminate entire body. Apply Techu cream for two minutes then wash off with copious amounts of water.
Seasonal Allergies	Be aware of pollen count in survey area. Use preventative medicine with antihistamines to reduce hazard of environmental pollen. Carry an EpiPen if you are prone to allergies.
Insect Bites / Stings	DEET can be applied to either exposed skin or clothing. It should not be applied to skin that is covered by clothes. Do not apply insect repellent over cuts, wounds, or inflamed or eczematous skin. Under most circumstances of casual use, 10% - 35% DEET will provide adequate protection. In conditions where there is a rapid loss of repellent to the skin due to wash-off from rain, perspiration, or high ambient temperatures, periodic re-application is suggested. Use a bug net that covers exposed skin. If bitten, use antihistamines to control symptoms.
	Anyone who is allergic to bee stings should notify the group before going out in the field and should have an EpiPen on them at all times in the field. The sting of these insects is caused by the insects utilizing self-defense or defense of the nest response, so avoid all nests when possible. If a bee stings you, remove the stinger by scraping away the stinger sideways along the sting using a needle or credit card (do not squeeze with tweezers, it will cause more venom to come out).
Tick Bites	Use fine tweezers to grasp the tick as close to the skin surface as possible. Pull backwards gently but firmly, using an even, steady pressure. Do not jerk or twist. Do not squeeze, crush, or puncture the body of the tick, since its bodily fluids may contain infection-causing organisms. After removing the tick, wash the skin and hands thoroughly with soap and water. If any mouth parts of the tick remain in the skin, these should be left alone; they will be expelled on their own. Attempts to remove these parts may result in significant skin trauma. Seek medical attention should the bite become infected.

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Project Name:		Project Manager:	Project Number:	Project Start Date:	Project Location:						
River Eyes		Mike Hatch	17402	May-11	Middle Rio Grande, NM						
Snake Bites	and high, thick leather or rubber boots or ga clothing near the bite quickly, before swellin was from a poisonous snake, get to a hospi	poke at the ground in front of you with a long stick stors. Shine a flashlight on your path when walking ig starts. Lift the bitten arm or leg so it is level with Ital as soon as you can. If medical help is more tha ound. Do NOT try to suck the venom out of the wo	g outside at night. Never handle a sn I your heart. Clean the bite wound. B an 30 minutes away, tie an elastic w	ake, even if you think it is de e sure to wipe in the direction	ad. If bitten – Take off any jewelry or tight a away from the wound. If you think the bite						
Bear Encounters	Black bears: Never make eye contact. Make yourself look large, raise arms, make noise, and leave area slowly without turning your back. Never play dead, and fight back if attacked. Grizzly bears: Never make eye contact. Make yourself look large, make noise, and leave area slowly without turning your back. If attacked, curl into fetal position and protect head and neck. Do not fight back.										
Mountain Lions	Avoid working when mountain lions are most active—dawn, dusk, and at night. Do not approach a mountain lion. If you encounter a mountain lion, do not run; instead, face the animal, make noise and try to look bigger by waving your arms, throw rocks or other objects. If attacked, fight back, if you witness a mountain lion attacking someone, immediately call 911.										
Crossing Water (arroyos, flash-floods, rivers and streams)	locations some distance from the storm cer Do not cross very fast flowing water, fast/m deep, use a stick, deeper than waist – do n Find a wrist-thick shoulder-height stick to te	oderately fast flowing – cross if less than just abov of cross unless necessary. Find a shallow spot to st the water depth in front of you; can also be used Face slightly upstream on an angle and sidestep-	ve the knee-deep and you can see/fe cross, if you can't find a safe place a d as a support, enabling you to keep	el the bottom (use a stick); fi nd your life does not depend two points of contact with th	owing slowly – cross if less than waist- l on you crossing, turn around and go back e river bottom at all times. Loosen your						
Storm Conditions, lightning (electrocution)	Remain under cover until 30 minutes after t	hould seek shelter if the "Flash-To-Bang" delay (le he final clap of thunder. If caught out in the open o der overhangs. Remove metal jewelry. If in a veh	during a thunderstorm, crouch down	and touch as little surface of							
Wet Soil Conditions	Some soils are extremely hydric and, if saturated, can create conditions where off-road vehicles can become stuck — even with a small amount of precipitation. Driving in conditions like these can cause deep rutting in roads and may damage vegetation, leading to erosion or loss of habitat. Driving should be avoided in these conditions; however, walking in these conditions can also provide similar difficulties. Any work on or near cultural resource sites can leave deep footprints and may affect site features or integrity. In very wet conditions, fieldwork should be suspended for a day, or more, to avoid affecting cultural resource sites.										
Rock Outcrops, cliffs, downed trees & steep drainages	Travel on the contour; do not attempt to scale or descend rock outcrops. Consider all rock outcrops unstable, and do not depend on them to support your weight. Test every step to uncover loose rocks, unstable soil, or slick surfaces. Cross with care; they may be slippery. Stepping on or straddling downed trees is best avoided. Grasp rooted brush to avoid uncontrolled slides.										
Surveying cutbanks and cliffs		nks and friable solls. Even if a bank looks stable, height. Vehicles should remain at least 25 feet fr									
Endangered Species	With fieldwork, you must avoid nesting loca	tions. Coordination must be made with appropriat	te governing agencies to be complia	nt while surveying.							
Heavy Equipment	Employees will avoid all heavy drilling equip	oment. If heavy equipment is in the area, employe	ees will leave the area.								
Barbed Wire and Fence	Choose safe crossing points and techniques. If possible, team members should assist each other. Keep tetanus shots current. Be sure to wear appropriate leather gloves when handling barbed wire. Wear appropriate clothing to protect against punctures, cuts, and lacerations by wire or post. Use caution when crossing fence for trip hazards. Jump on bottom wire to determine if it is strong enough to support weight before climbing over it. Ensure the post is not in a position to impale or harm while crossing. Always wear gloves when handling a fence!										
All Temain Vehicles (ATV)	passengers unless the ATV is designed to roads, slopes, canals, ditches, blind interse	e SWCA's ATV training located on the Safety Ports do so. Use extra caution if road or environmental ctions, trees, shrubs, other vehicles. Don't travers not change in camber from one side of the vehicle onsider walking if feasible.	conditions change. Be aware of you se a hill sideways, always climb strai	r surroundings. Give specia ght up or straight down. How	l attention to terrain features such as ever, if you are in a situation where you						

Page 2 of 6



Project Name:		Project Manager:	Project Number:	Project Start Date:	Project Location:					
River Eyes		Mike Hatch	17402	May-11	Middle Rio Grande, NM					
Working in unfamiliar areas (getting lost)	hom, and whistle) and compass in your	dings and should inform others of their destination for to backpack. If you have no cell phone coverage, do not ou traveled since then. Re-trace your original position S.	panic. Trace your thoughts back to	o the last point where you de	finitely knew your location, how long ago					
Heat Stress	Heat exhaustion is caused by the loss of large amounts of fluid by sweating, sometimes with excessive loss of salt. A worker suffering from heat exhaustion still sweats but experiences extreme weakness or fatigue, giddiness, nausea, or headache. In more serious cases, the victim may vomit or lose consciousness. The skin is clammy and moist, the complexion is pale or flushed, and the body temperature is normal or only slightly elevated. In most cases, a treatment involves having the victim rest in a cool place and drink plenty of liquids. Victims with mild cases of heat exhaustion usually recover spontaneously with this treatment. Those with severe cases may require extended care for several days. There are no known permanent effects. Wear sunscreen, hat, and sunglasses to help avoid heat stress.									
Dehydration	Workers should drink 5 to 7 ounces of fluids every 15 to 20 minutes (1 gallon per person per day) to replenish the necessary fluids in the body. Include both water and electrolytes as needed. Signs of dehydration include thirst, lack of unnation and concentrated color, dry mouth, lack of tears, no sweating, muscle gramps, and nausea and vomiting. Fluid replacements may be attempted by drinking frequent, small amounts of clear fluids.									
Hypothermia	Hypothermia usually occurs gradually. Often, people are not aware that they need help, much less medical attention. Common signs to look for are shivering, which is your body's attempt to generate heat through muscle activity, and the "-umbels" stumbles, mumbles, fumbles, and grumbles. These behaviors may be a result of changes in consciousness and motor coordination caused by hypothermia. Other hypothermia symptoms may include slurred speech, abnormally slow rate of breathing, cold, pale skin, fatigue, lethargy, or apathy. The severity of hypothermia can vary, depending on how low your core body temperature goes. Severe hypothermia eventually leads to cardiac and respiratory failure, then death. Wear layers, and bring extra clothes. Keep head covered. Use hand/foot warmers as necessary.									
Dangerous or Violent Individuals	Be conscious of potentially dangerous or violent individuals or groups. Do not confront or approach dangerous individuals. If employees feel threatened, they should call \$11 and contact their Project Manager/Office Director immediately. Carry pepper spray, and know how to use it.									
Solo Fieldwork	Solo fieldwork should be avoided wherever possible. Solo fieldworkers are responsible for preparing a fieldwork risk assessment and submitting it to their field supervisor. Ensure that you have fully appraised yourself of local hazards and risks, noting which areas of high risk to avoid. Identify the location of the local emergency services, telephones and nearest residences prior to start of your fieldwork including specific location, dates, and times must be left with a field supervisor who should have instructions to contact the emergency services in the event that an employee does not return within the allocated time.									
Working in burned forest areas	Be aware of the dangers of burned trees which are now in danger of falling over and hitting/pinning you. If it's windy out, the likelihood of a tree falling over is increased. Be aware of hidden holes in the ash – areas where tree trunks used to be which have burned out and left a hole in the ground. The ash and sediment covers these holes loosely, so they appear to be solid ground when it is actually a large hole. Since such hazards are hard to detect, be extra cautious when walking around high frequency burn areas and use a walking stick to probe the ground ahead.									
Crossing Jetty Jacks and tie-back lines	Choose safe crossing points and access points. Jetty jacks and tie-backs could be submerged in water and ground. Locate or identify jetty jacks and associated lines before wading into river or walking through dense vegetation and brush. Be prepared to wear appropriate gloves, pants, and boots when working near jetty jacks to avoid cuts and lacerations. Use caution when crossing jetty jacks and tie-backs as they are a tripping hazard.									
Stray Dogs	Stay away from dogs. Do not run if confronted, back away slowly using a calm, low voice, and remain calm. Carry pepper spray and have it readily accessible. Make sure you know how to properly use pepper spray. Look for a defense weapon.									
Horses	Maintain a safe distance from horses (10 feet minimum). Avoid foals and separating them from mothers.									
Livestock, electric fencing in pasture areas		of the project area. Stay away from livestock. Avoid ca to determine if electricity is on hold place a long blade			e animal from the group. Never trust a bull					
Fire Safety	Conform to local and regional fire control	of restrictions.								
Hiking and Driving ATV in low light conditions	Do not drive ATV at speeds unsafe for t	he effective illumination distance of the ATV headlight	beam. Cary headlight beam or flas	hlight to illuminate foot trave	L.					
*Additional Hazard										
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Page 3 of 6



Project Name:	Project Manager:	Project Number:	Project Start Date:	Project Location:	
River Eyes	Mike Hatch	17402	May-11	Middle Rio Grande, NM	
Additional Hazard					
Additional Hazard					
Field Defined:					
Field Defined:					
Field Defined:					

SECTION 2 PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIREMENTS.
Full-length pants, Boots above ankles. Waders or wading boots and booties if conducting flow measurements. A PFD should be worn for all river crossings.



**Animal Control** 

505-861-1301

Border Patrol

N/A

Project Manager:	Project Manager:		Project Start Date:	Project Location:	
Mike Hatch	Mike Hatch		May-11	Middle Rio Grande, NM	
RGENCY PROVIDER INFORMATIO	N				
Address	Cit	ty	State & Zip	Telephone	
1100 Central Ave SE	Albuqu	erque	NM, 87106	505-841-1234	
Address	City		State & Zip	Telephone	
3811 Commons Ave NE	Albuquerque		NM 87109	(505)345-9599	
Address	City		State & Zip	Telephone	
BLM/USFS Ranger	Eme	rgency Towing Com	pany Police	Fire Department / Ambulance	
(505) 761-8700	(505) 864-3030		505	864-6288 /505-864-4401/911	
	Mike Hatch RIGENCY PROVIDER INFORMATION Address 1100 Central Ave SE Address 3811 Commons Ave NE Address BLMUSFS Ranger	Mike Hatch  RIGHNOY PROVIDER INFORMATION Address Ci  1100 Central Ave SE Albuqu  Address Ci  3811 Commons Ave NE Albuqu  Address Ci  BLIWUSFS Ranger Eme	Mike Hatch 17402  RIGENCY PROVIDER INFORMATION Address City  1100 Central Ave SE Albuquerque  Address City  3811 Commons Ave NE Albuquerque  Address City  BLMUSFS Ranger Emergency Towing Com	Mike Hatch 17402 May-11  RIGENCY PROVIDER INFORMATION Address City State & Zip  1100 Central Ave SE Albuquerque NM, 87106  Address City State & Zip  3811 Commons Ave NE Albuquerque NM 87109  Address City State & Zip  Address City State & Zip  BLMUSFS Ranger Emergency Towing Company Police	

#### SECTION 5 SWCA EMERGENCY CONTACT INFORMATION

Poison Control

800-432-6866

It is the Project Manager's responsibility to communicate any incidents to their supervisor and Principal, as well as properly document and report incidents to their OSR and SWCA safety department. When inter-department employees are used to conduct field work, it is the PM's additional responsibility to inform the employee's home-office Principal of any incidents. Employees involved in incidents should also maintain open communications with their supervisor to the degree permissible by HIPPA and OSHA.

Hazardous Materials

911

	Name:	Phone:
Project Manager	Mike Hatch	505-328-4419
Field Supervisor	Greg Pargas	505-506-1517
Principal (Office Manager)	Joseph Fluder	505-263-2862
Office Safety Representative (OSR)	Alayne Syzmanski	505-206-6654
Safety Council	A member of a Safety Council is available 24 hours per day in the event of an emergency	602-501-1816
Medcor	3rd Party Call in Triage Medical Service	1-800-775-5866



Project Name:	Project Manager:	Project Number:	Project Start Date:	Project Location:
River Eyes	Mike Hatch	17402	May-11	Middle Rio Grande, NM

#### SECTION 6 DAILY JHA TRACKING

- By signing and initialing this Section I confirm that I have read and understand the attached Job Hazard Analysis document (JHA) and Workers Comp provider information and that I will follow this guidance. I also understand that anyone can call a Safety Timeout at any time in order to ensure a safe work environment in the field. When in doubt STOP, and make an informed decision involving the Field Supervisor and others.
- This document must be signed and initialed on the first day of the project and initialed each day thereafter while on the project. If needed, please use another sheet for additional signatures.

Project Number:	17042 Check One			Please initial for each day of the project SU MO TU WE TH FR SA							
Project Number: Print Name	Signature	Crew	Supervisor	SU	MO	TU	WE	TH	FR	SA	Week Ending
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#### DAILY SAFETY VEHICLE INSPECTION LOG



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the tire tread in good condition for route?		2112			1 0 5 2
e the tires free of gouges, blisters or defects?	4 = 1 = 1	125			
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the brake lights work properly?					FRONT WATER
o the reverse lights work properly? o all (4) turn signal lights work properly?	+++			I In II I	1 1 2 3 3 5
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bes the horn work?		-			
pes the steering wheel rotate properly?					
the brakes & parking brake work properly?					— OII - 83
the windshield wipers work properly?				0 5	
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there a copy of the current registration in the vehicle?				X= DENT -= SCR	ATCH O= MISSING
a copy of the rental contract in the vehicle?					
there Vehicle Incident Reports (VIR) in the vehicle? a operators manual in the vehicle?	1	+	-	CONDITION SAME C	IN RETURN Yes No
there a emergency kit located in the vehicle?	<del> </del>	+	-		
there a fire extinguisher in the vehicle (if required)?		-			
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e the straps or ropes in good condition?					
the hitch properly secure and the correct size?		- 1- 4 Pa			
the trailer hitch latch secure?					
e the Breakaway chains securely attached?			11-5		
e the trailer lights working?					
e electrical wires secure? e the trafler tires safe?		-		-	
a the trailer lifes sale?			-		
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SUN			1	Start	End
MON			7	Start	End
TUE			1	Start	End
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G/\Safety\2012.JHA & VIL\_REQUEST FORM\Vehicle\_Inspection\_LogVehicle\_Inspection\_Log

Printed 11/14/2012