5.E JEMEZ RIVER

The Jemez River Watershed is a sub-basin of the Jemez River Basin and is located in northcentral New Mexico. This 1043 mi^2 watershed is dominated by both forest and rangeland (Figure 1.A) on mostly U.S. Forest Service, Tribal, and private land. The Jemez River from Rio Guadalupe to the confluence of the East Fork of the Jemez River and San Antonio Creek is a 45 mi^2 watershed. Both the study watershed and the Jemez River Basin are located primarily on U.S. Forest Service land.

Photo 7. The Jemez River (below East Fork near Jemez Springs) at USGS Gaging Station 08321500

Sampling stations were located throughout the basin to evaluate the impact of tributary streams. As a result of this monitoring effort, several exceedances of New Mexico water quality standards for aluminum (chronic) were documented on this segment of the Jemez River. The Jemez River is listed in the 2000-2002 State of New Mexico §303(d) list for assessed stream and river reaches for this constituent only, and TMDL calculations can be found in Section 8 of this document.

Photo 8. Jemez River (looking upstream) at Battleship Rock

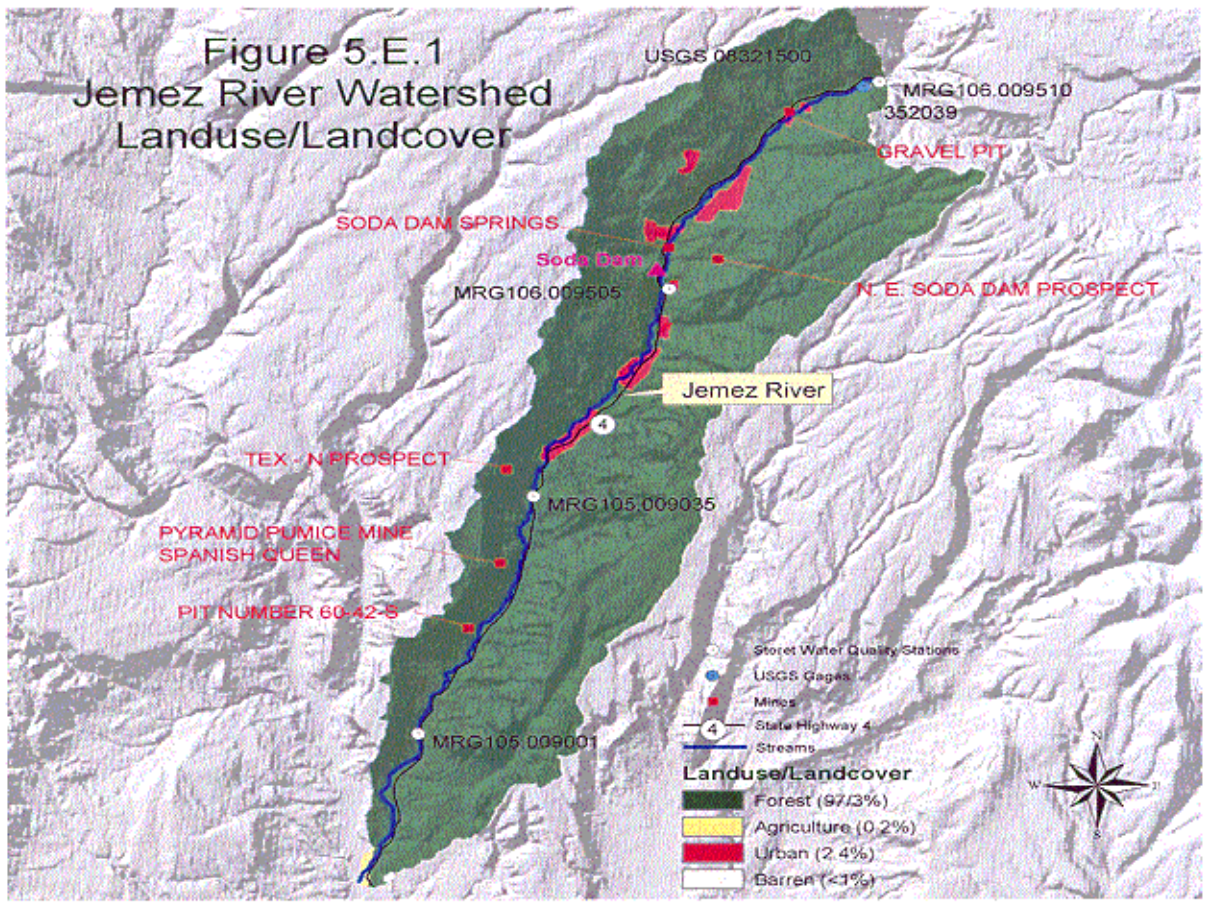
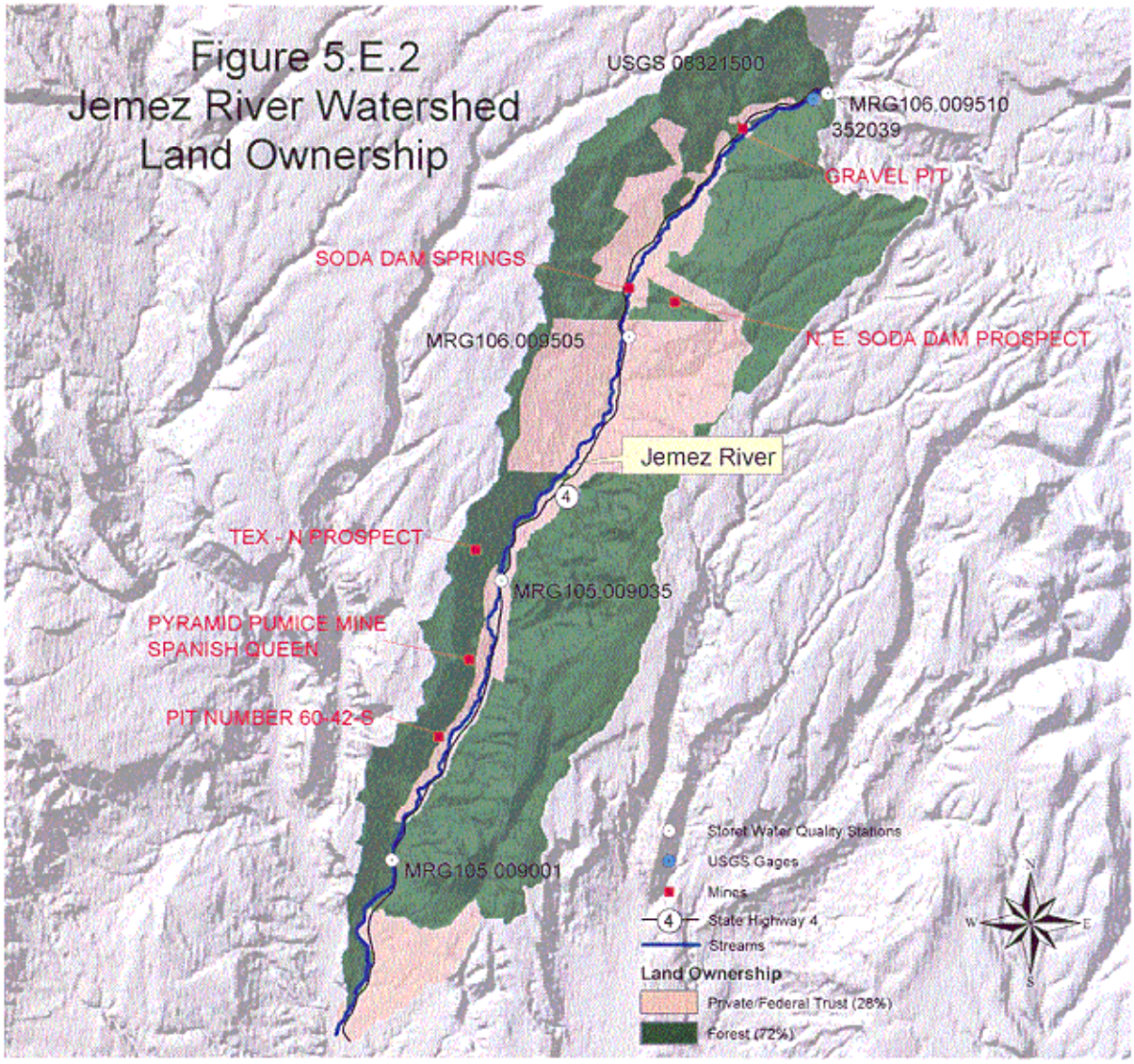
As a result of previous monitoring efforts, several exceedances of New Mexico water quality standards for turbidity and stream bottom deposits were also documented. Stream bottom deposits were assessed using techniques in the SWQB/NMED Protocol for the Assessment of Stream Bottom Deposits (SWQB/NMED, July 5, 2000). Some level of impairment due to embeddedness was identified. NMED has written a TMDL document addressing these constituents for the Jemez River (October 1999) and can be found on the www.nmenv/state/nm/us.gov website.

Table 3 gives brief descriptions of the locations of the sampling stations throughout the Jemez Watershed and shows that Stations 1, 3 and 4 through 7 are on the Jemez River. A portion of Table 3, for the Jemez River, is shown below in Table 5-5. These locations are shown on Figure 4.

Table 5-5: Jemez River Station Identification

SWQB/NMED STATION ID	STORET CODE	SWQB/NMED Thermograph Location ID	Location
1	MRG105.006050	N/A	Jemez River downstream from the confluence with Vallecito Creek. Located on Jemez Pueblo Tribal Lands.
3	MRG105.009001	N/A	Jemez River upstream from confluence with Rio Guadalupe.
4	MRG105.009035	N/A	Jemez River downstream from Jemez Springs WWTP effluent discharge.
5	NM0028011	N/A	Jemez Springs WWTP effluent discharge.
6	MRG105.009037	N/A	Jemez River upstream from Jemez Springs WWTP effluent discharge.
7	URG105.009040	N/A	Jemez River downstream from Battleship Rock.

STORET STATION I.D.	NMED/SWQB STATION I.D.	LOCATION
MRG105.006050	1	Jemez River downstream from the confluence with Vallecito Creek. Located on Jemez Pueblo Tribal Lands.
MRG105.009001	3	Jemez River upstream from confluence with Rio Guadalupe.
MRG105.009035	4	Jemez River downstream from Jemez Springs WWTP effluent discharge.
NM0028011	5	Jemez Springs WWTP effluent discharge.
MRG105.009037	6	Jemez River upstream from Jemez Springs WWTP effluent discharge.
URG105.009040	7	Jemez River downstream from Battleship Rock.
MRG106.009505	-----	Jemez River at NM Hwy 4 Bridge by USFS Station
MRG106.009510	-----	Jemez River below confluence with the East Fork and San Antonio Creek
352080	-----	Jemez River at USGS gage 08321500
352081	-----	Jemez River at USGS gage 8324000
352039	-----	Jemez River at Battleship Campground



STORET STATION I.D.	NMED/SWQB STATION I.D.	LOCATION
MRG105.006050	1	Jemez River downstream from the confluence with Vallecito Creek. Located on Jemez Pueblo Tribal Lands.
MRG105.009001	3	Jemez River upstream from confluence with Rio Guadalupe.
MRG105.009035	4	Jemez River downstream from Jemez Springs WWTP effluent discharge.
NM0028011	5	Jemez Springs WWTP effluent discharge.
MRG105.009037	6	Jemez River upstream from Jemez Springs WWTP effluent discharge.
URG105.009040	7	Jemez River downstream from Battleship Rock.
MRG106.009505	-----	Jemez River at NM Hwy 4 Bridge by USFS Station
MRG106.009510	-----	Jemez River below confluence with the East Fork and San Antonio Creek
352080	-----	Jemez River at USGS gage 08321500
352081	-----	Jemez River at USGS gage 8324000
352039	-----	Jemez River at Battleship Campground