

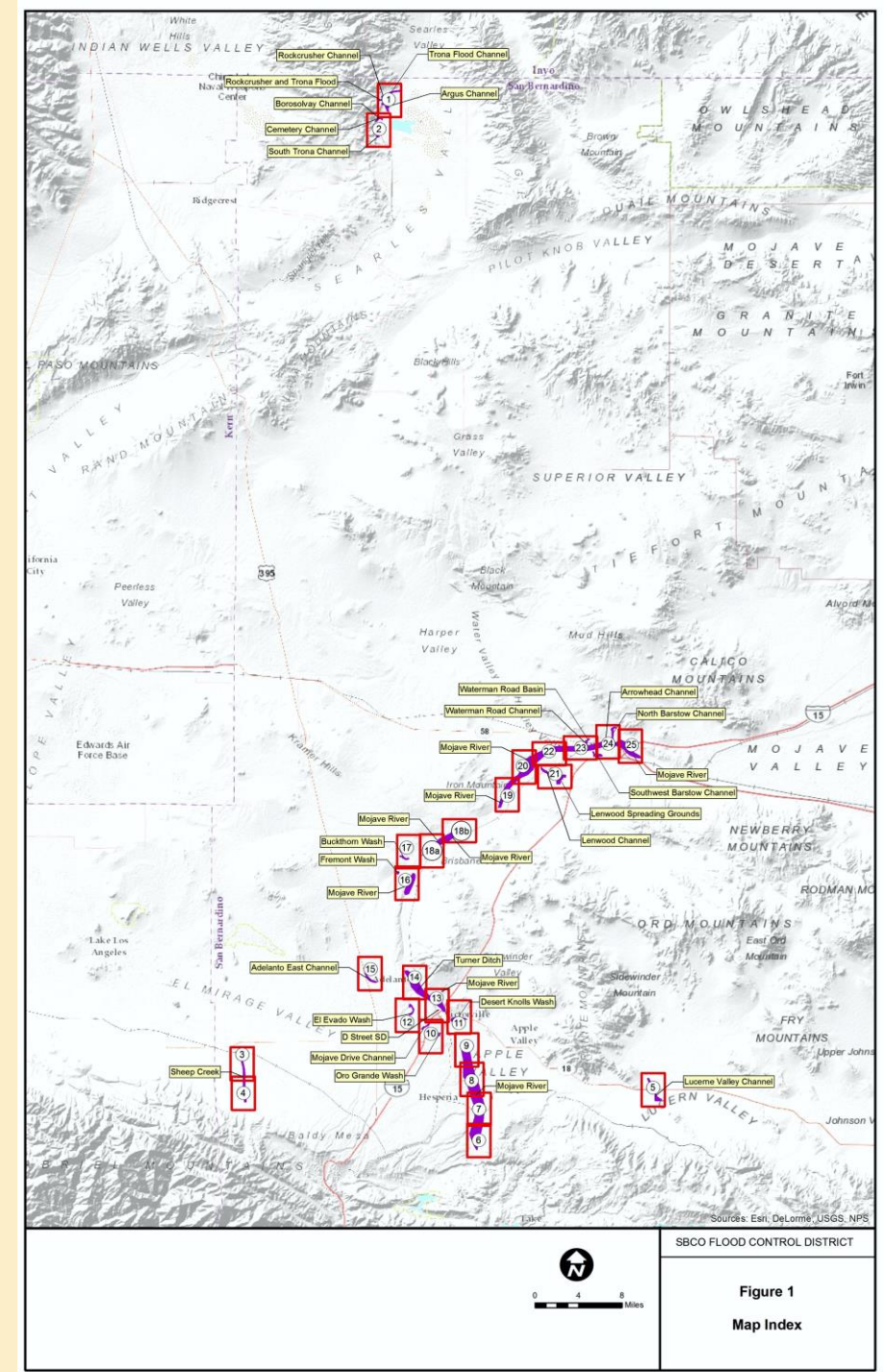


2016 MGS Habitat Assessments

SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT

Methods

Throughout the desert regions of San Bernardino County wherever these facilities overlap with existing Mohave ground squirrel range maps (Leitner, 2008) and/or recent efforts by the U.S. Geological Survey (USGS) to model habitat for this species



4 Criteria

1. appropriate vegetation for this species,
2. appropriate soils for this species,
3. distance to recent record or known location (less than 20 years old and within 10 miles), and
4. supporting a low level of human disturbance

These assessments were made independent of USGS modeling.

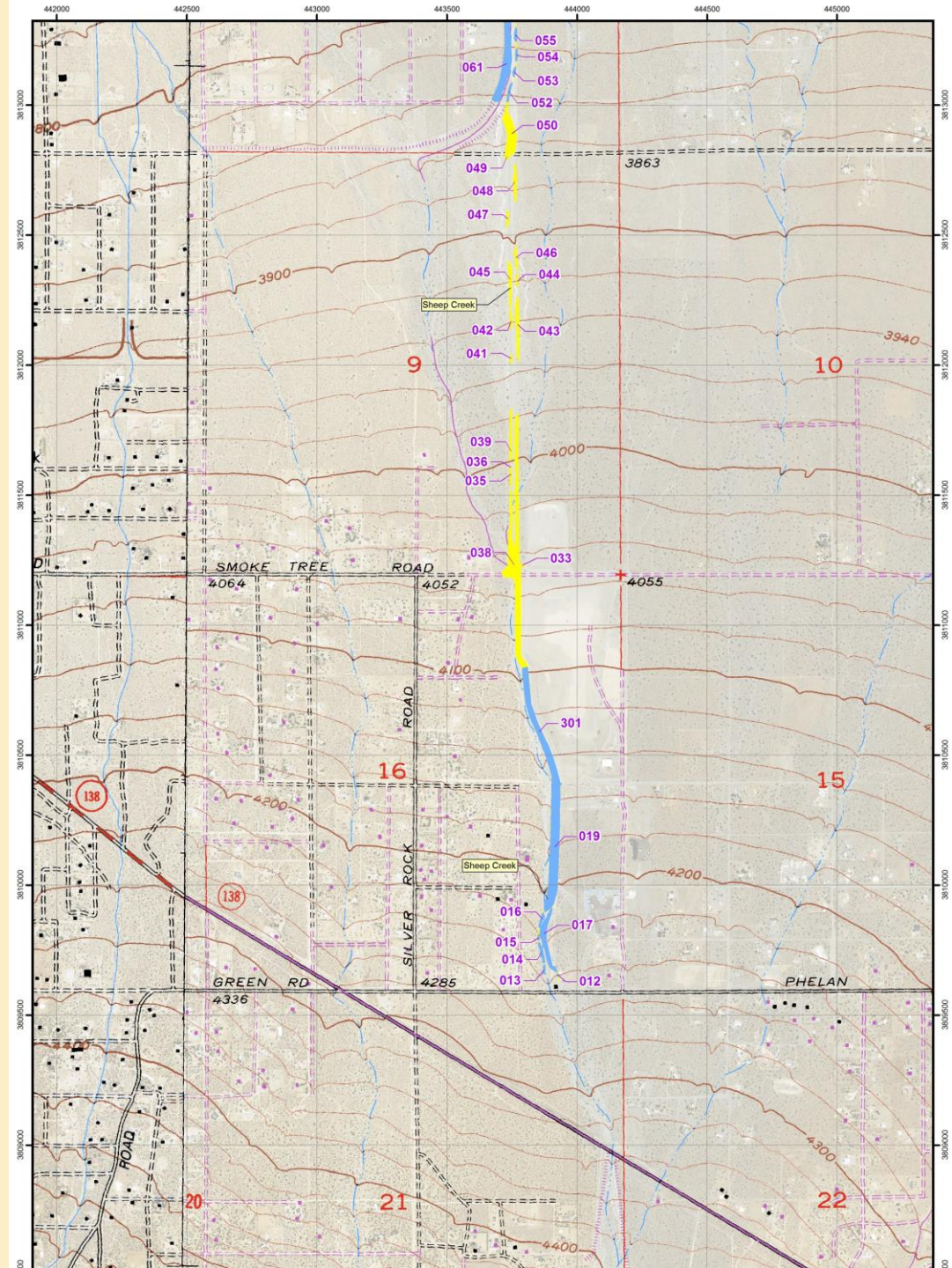
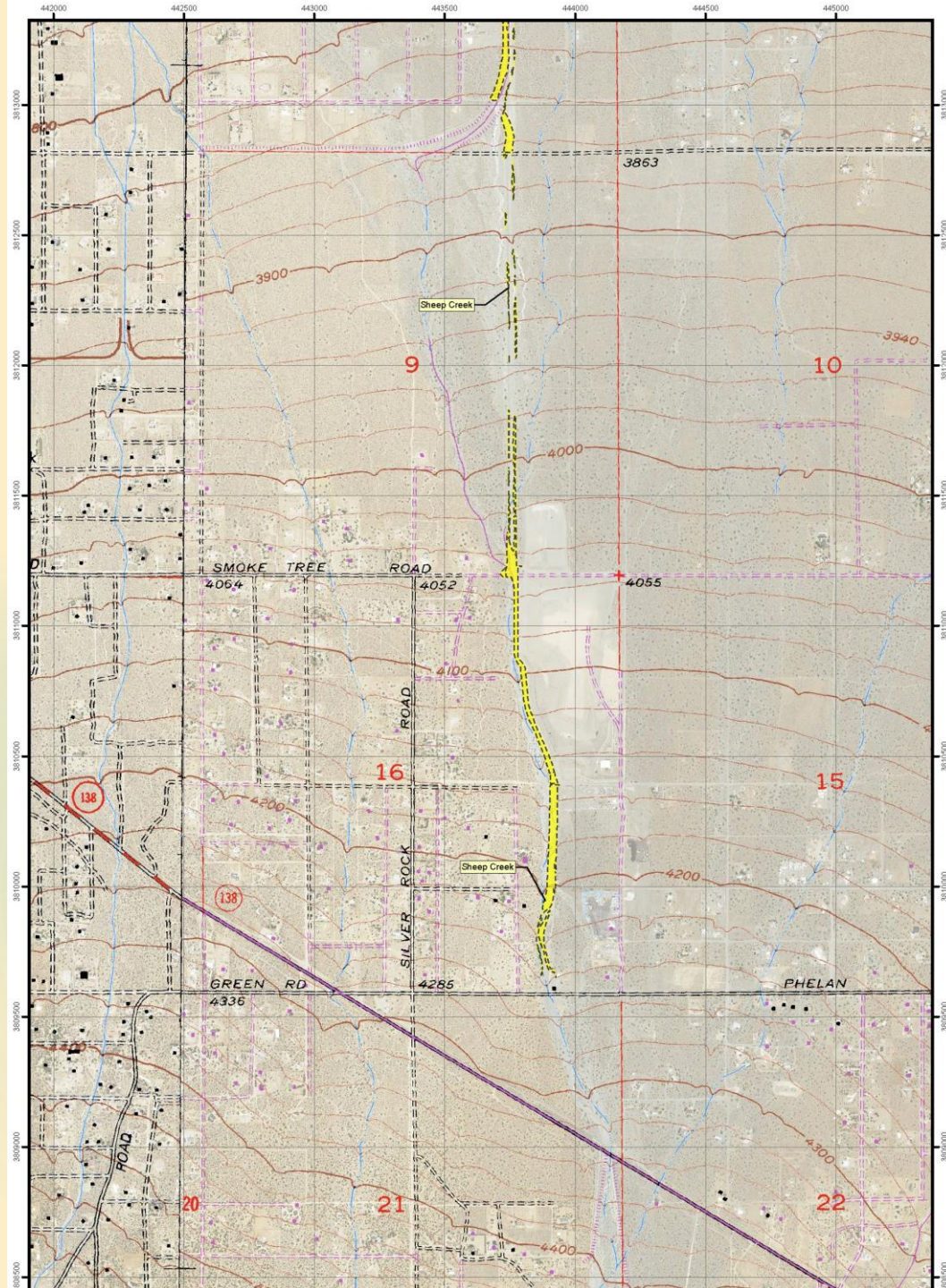
Each area was given an assessment as follows based on these criteria:

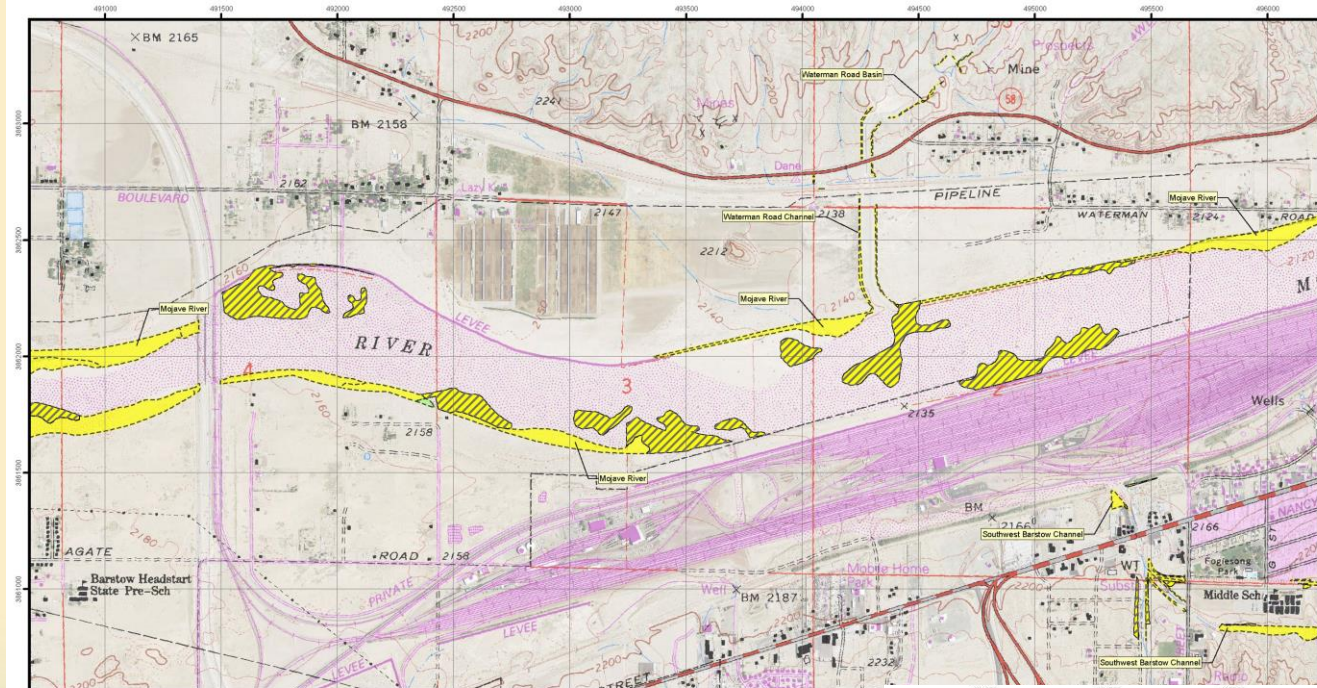
Areas Likely to support MGS

Excellent	meets all 4 criteria
Good	meets 3 of the 4 criteria

Areas Unlikely to support MGS

Fair	meets 2 of the 4 criteria
Poor	meets 0 or 1 of the 4 criteria

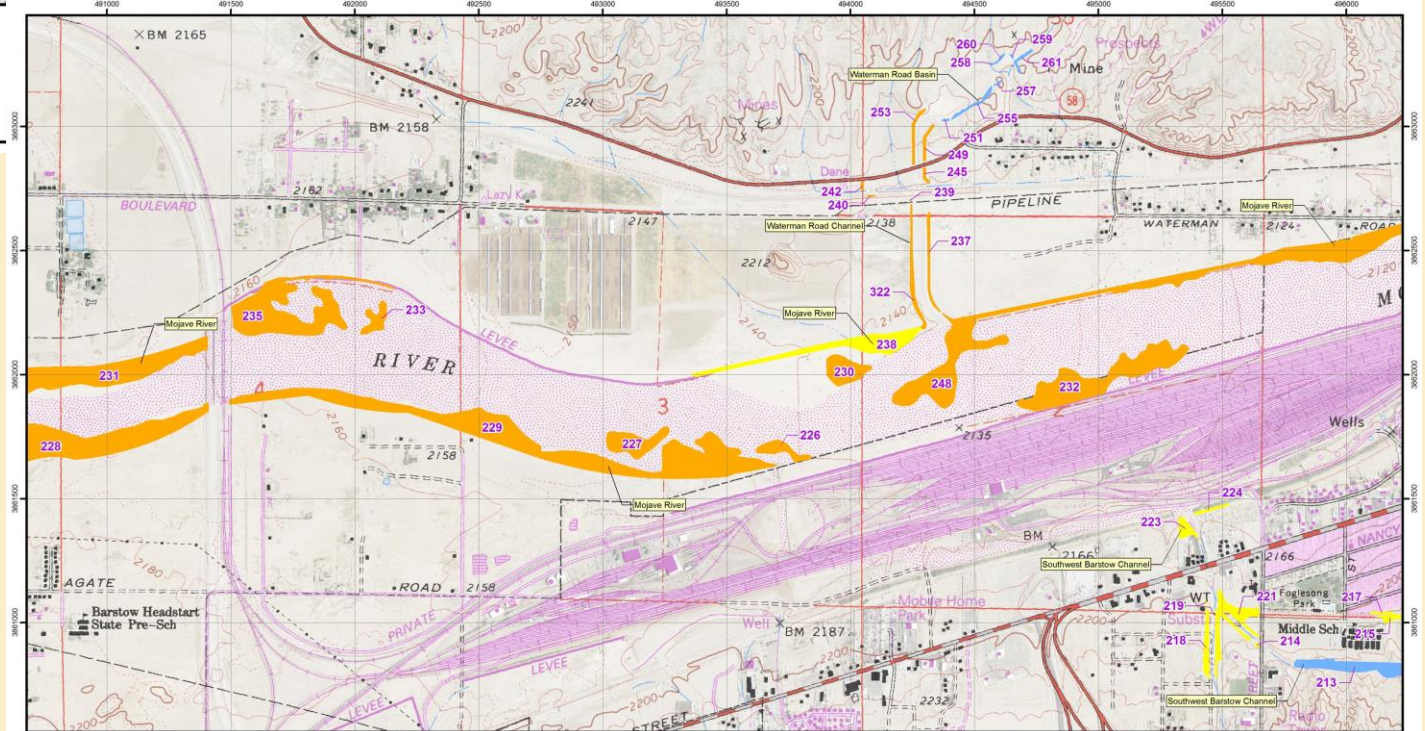


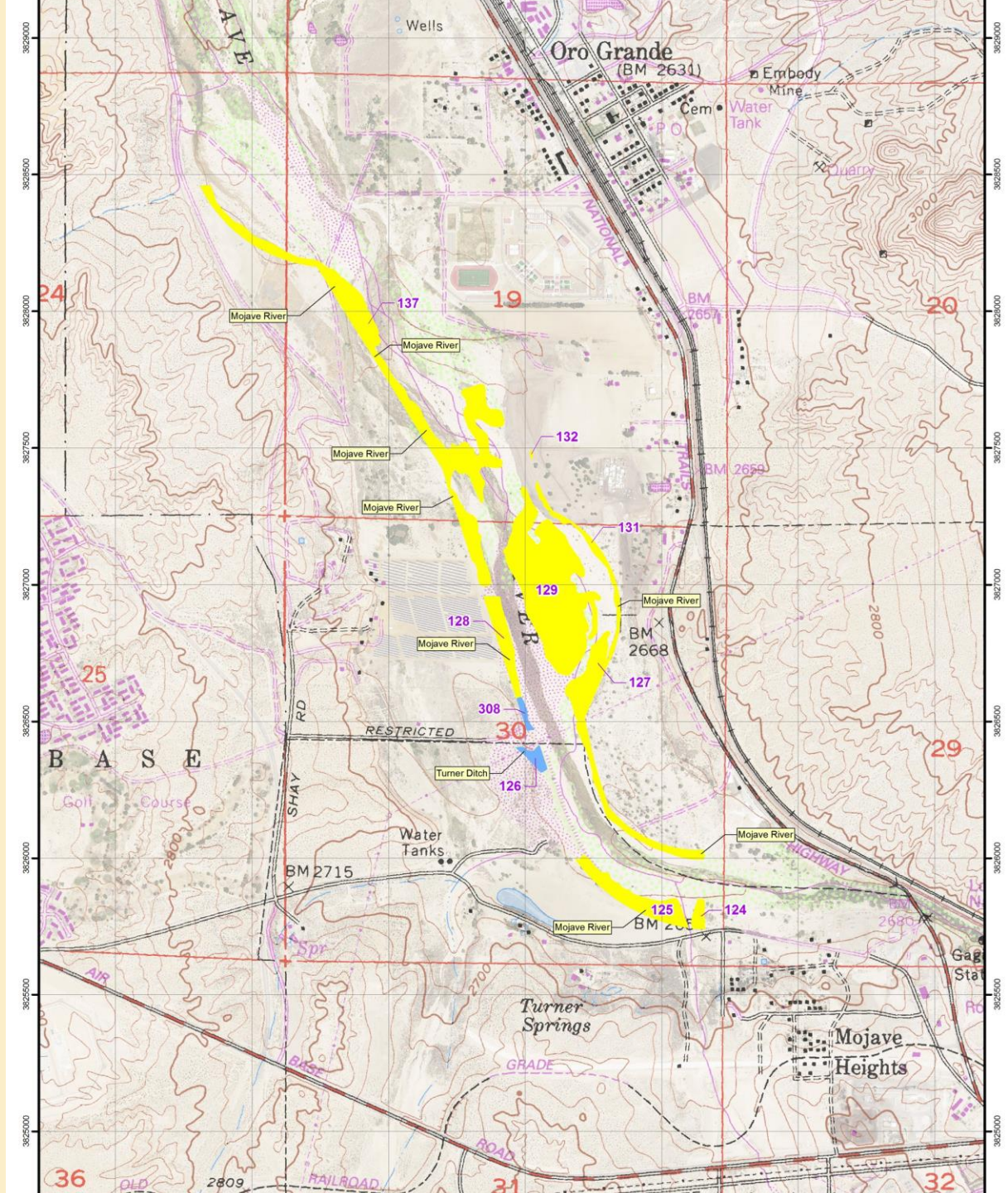
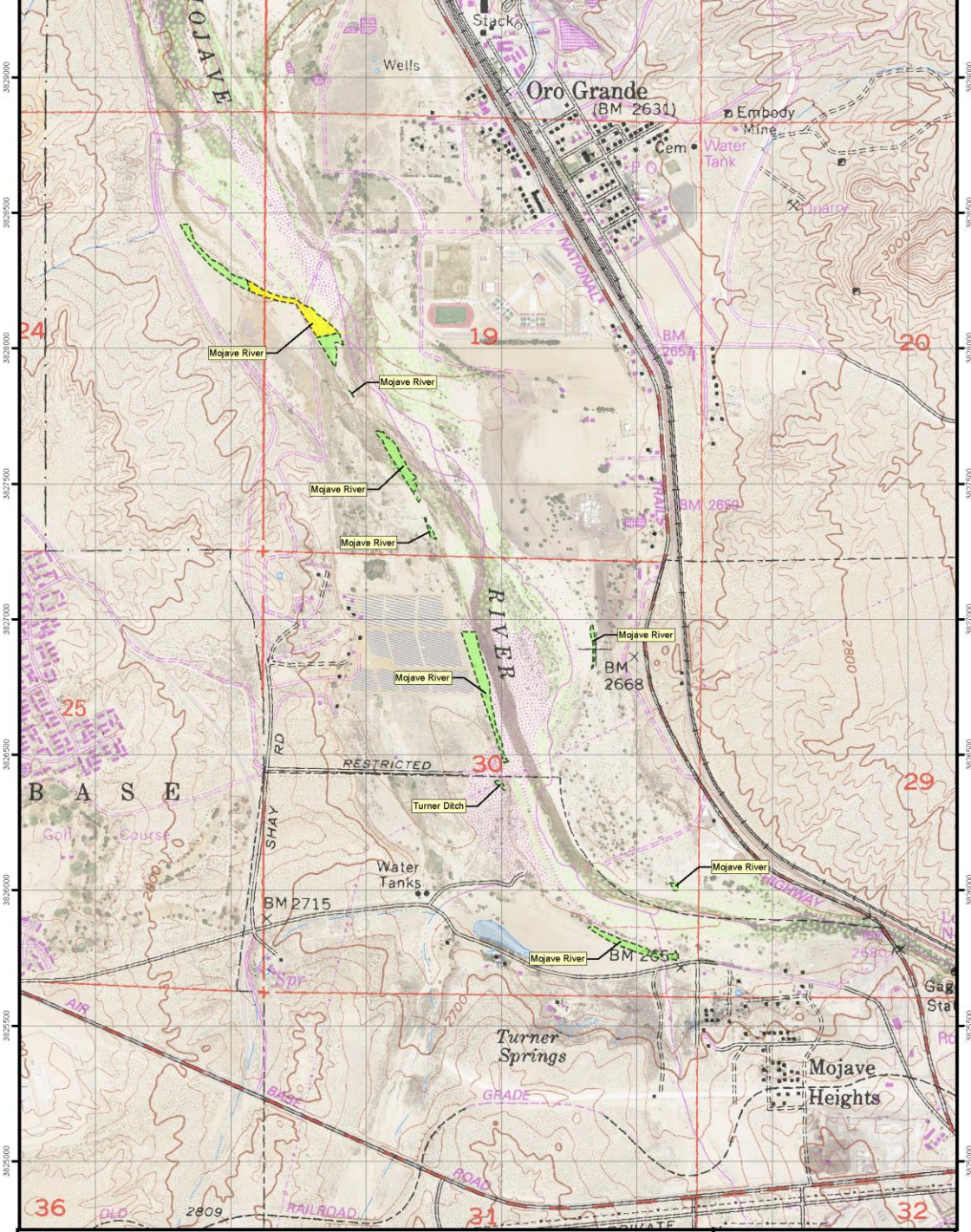


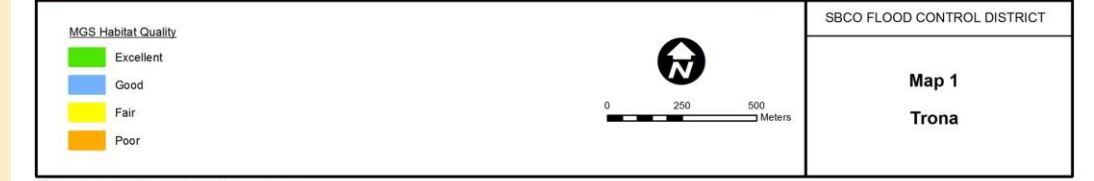
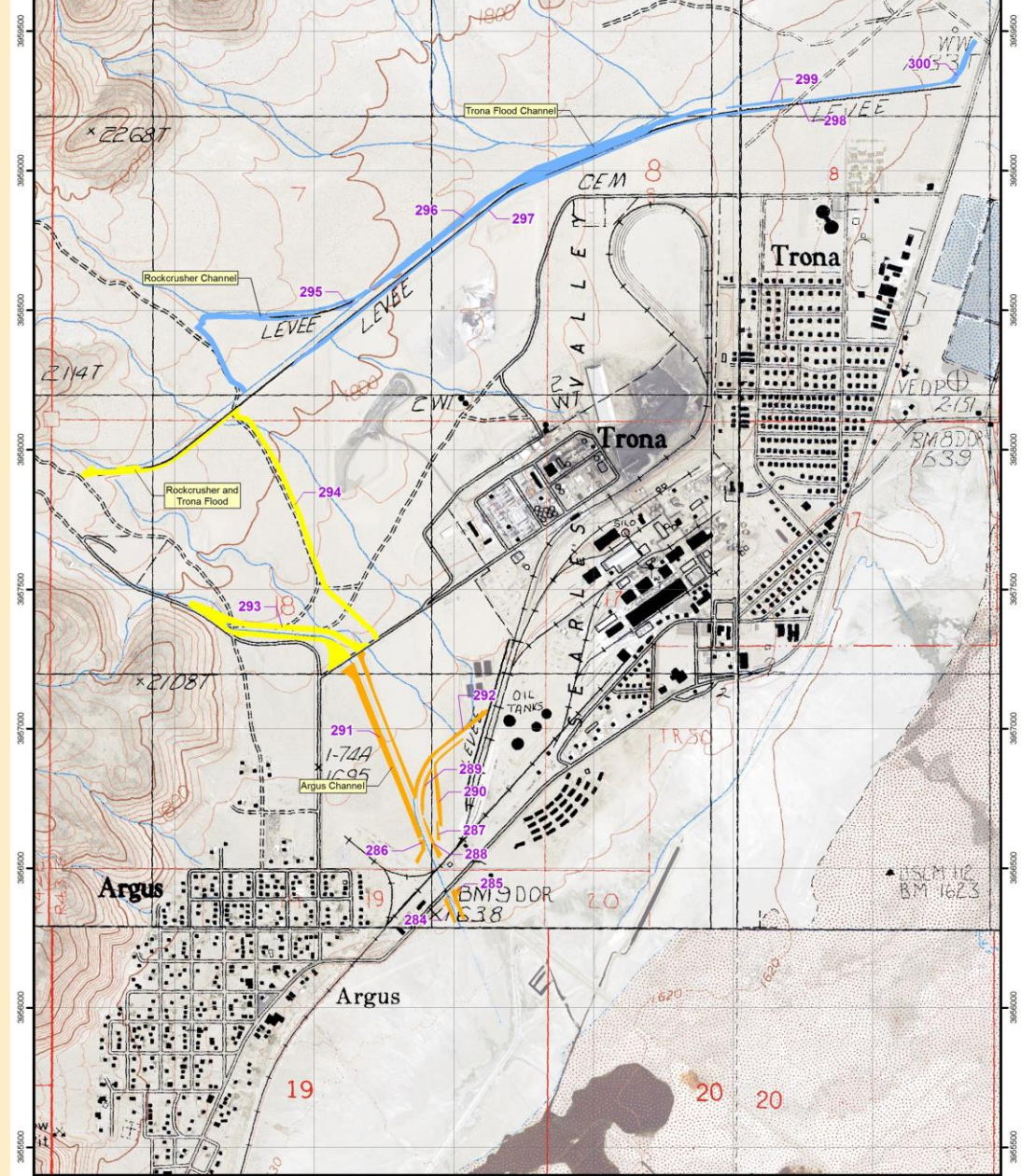
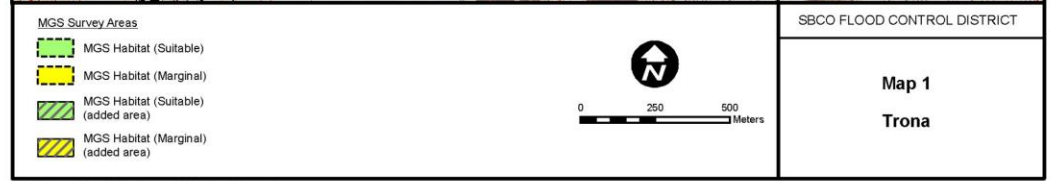
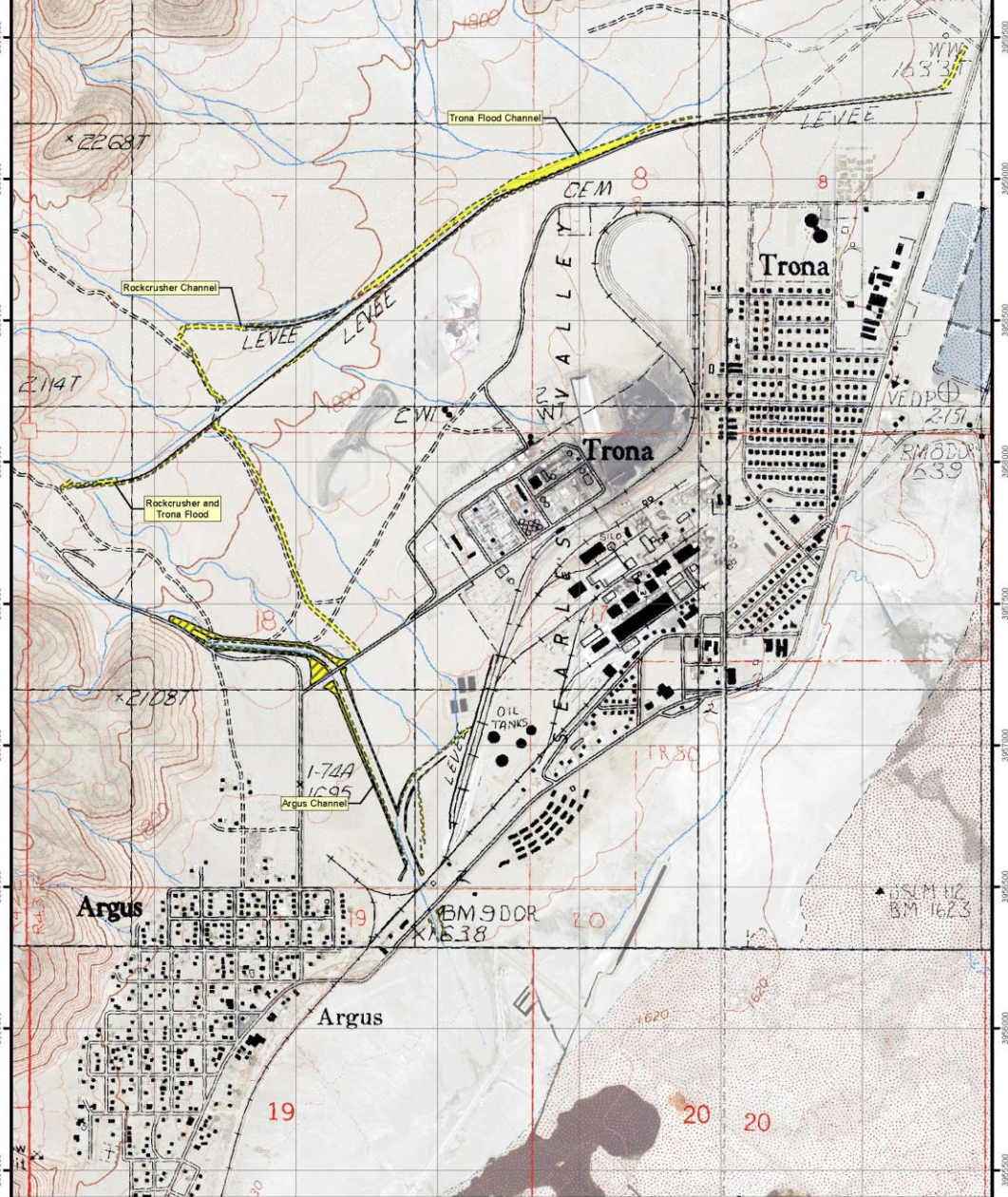
MGS Survey Areas

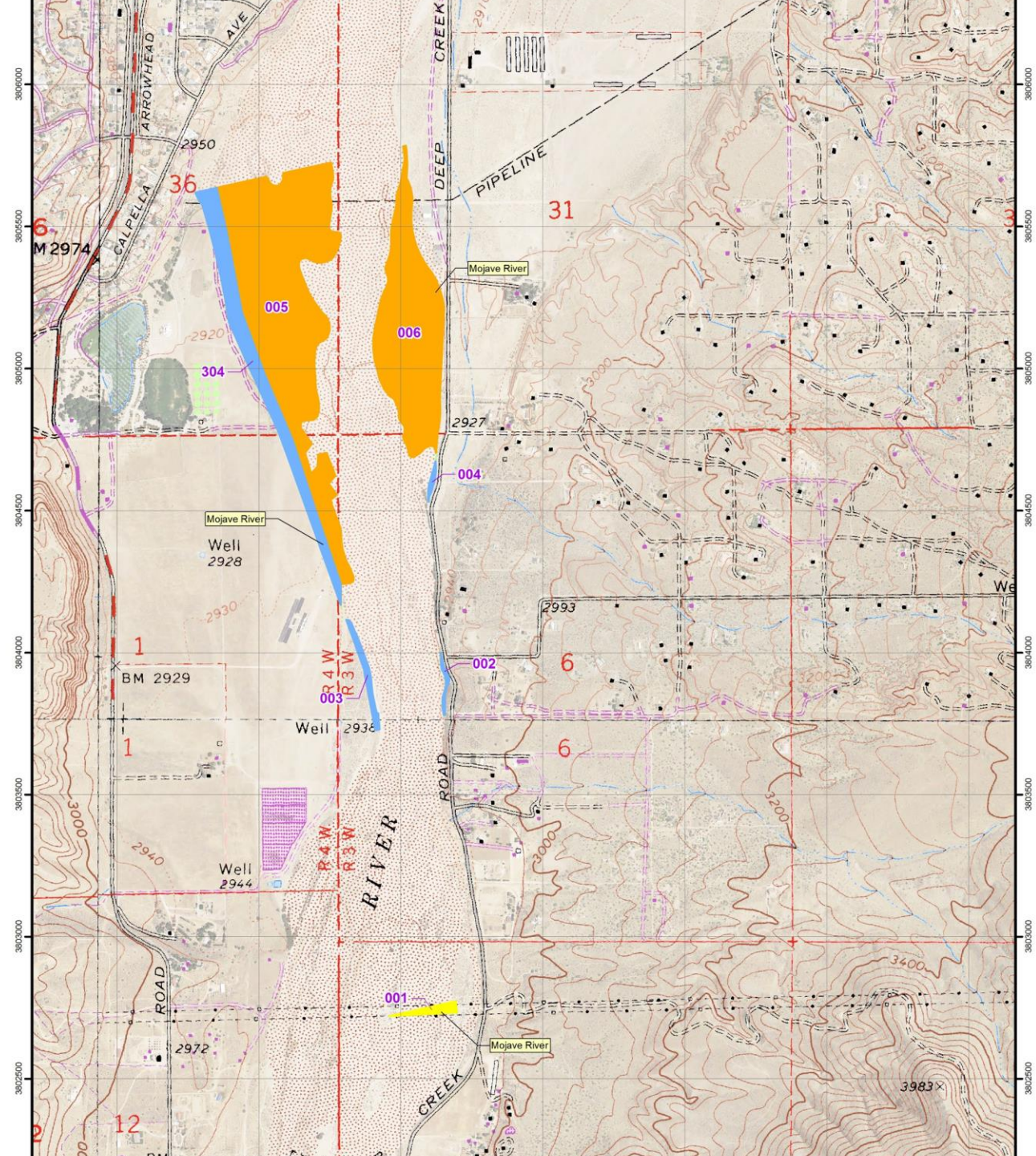
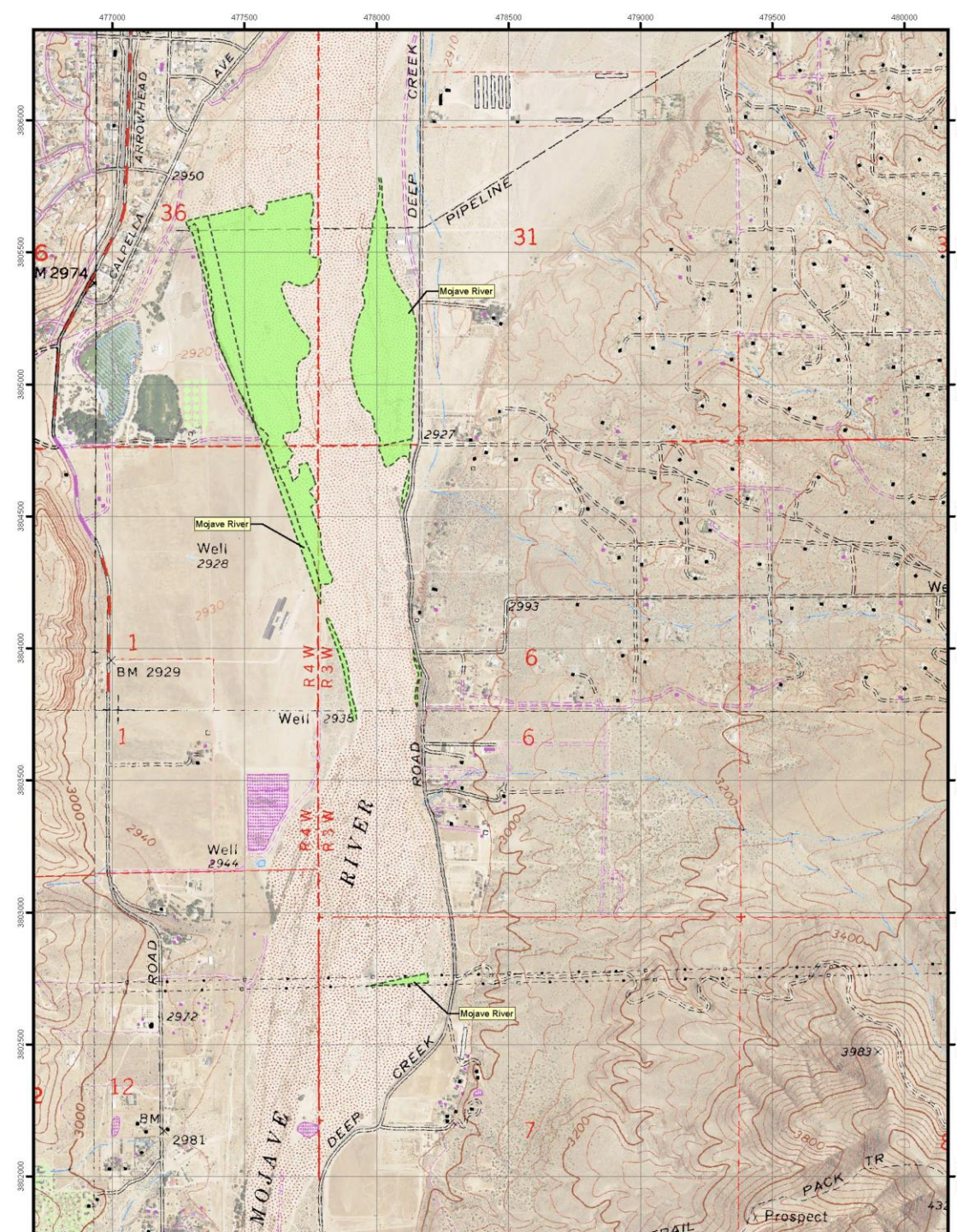
- MGS Habitat (Suitable)
- MGS Habitat (Marginal)
- MGS Habitat (Suitable) (added area)
- MGS Habitat (Marginal) (added area)

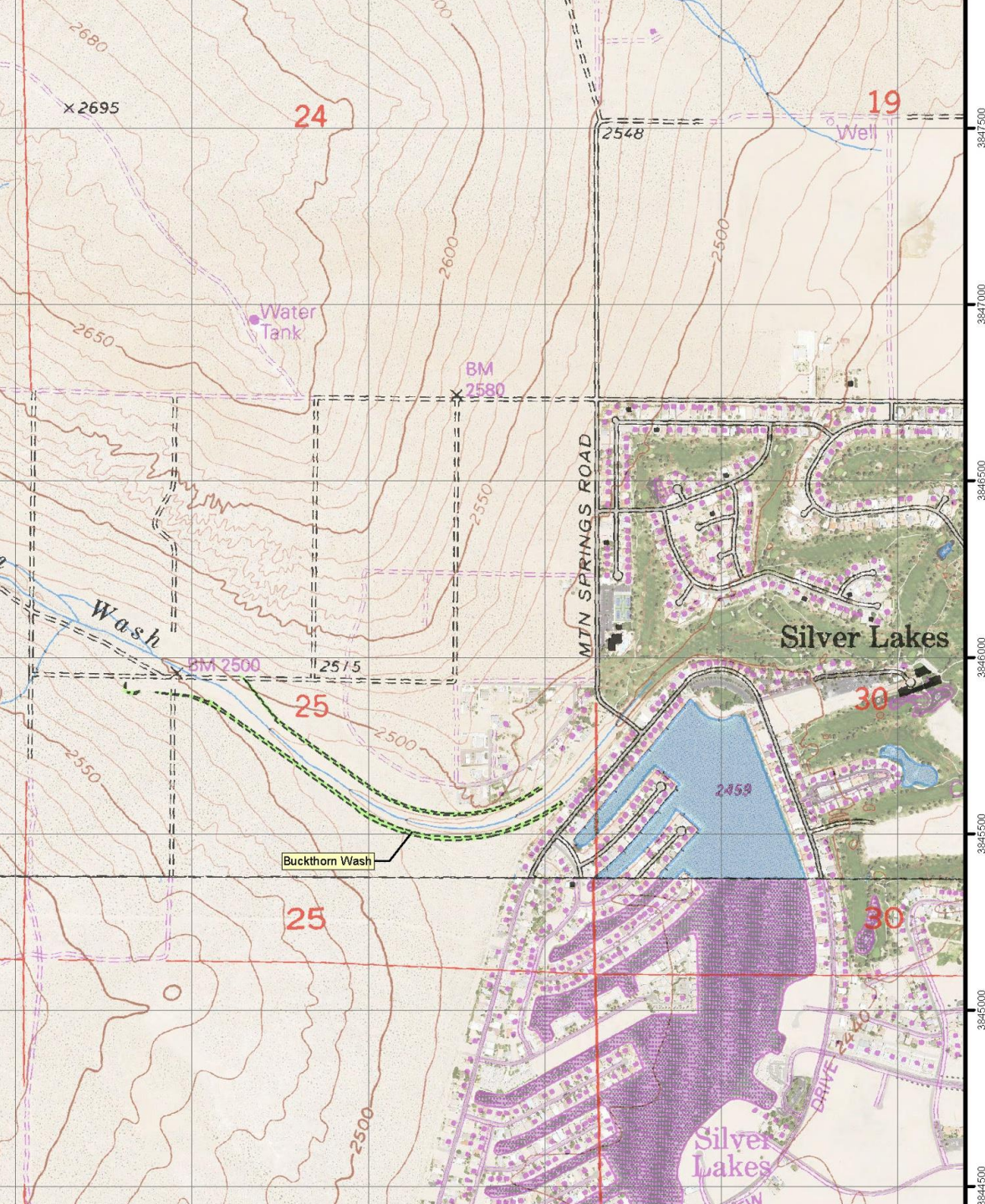
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ID	Classification	Area_sqft	Acres	Vegetation							Surveyor	Date	Map and Data Sheet #
				suitable for MGS (1 = yes, 0 = no)	Soils suitable for MGS (1 = yes, 0 = no)	Disturbance level suitable for MGS (1 = yes, 0 = no)	Recent (past 20 years) record (1 = yes, 0 = no)	Record proximity (1 = yes, 0 = no)	Within known MGS range (1 = yes, 0 = no)	MGS model (1 = suitable, 0 = marginal)			
001	Fair	50,275	1.154	1	0	1	0	0	0	1	Ksimon	5/13/16	6
002	Good	17,826	0.409	1	1	1	0	0	0	1	Ksimon	5/13/16	6
003	Good	71,809	1.649	1	1	1	0	0	0	1	Ksimon	5/13/16	6
004	Good	14,785	0.339	1	1	1	0	0	0	1	Ksimon	5/13/16	6
005	Poor	2,933,624	67.347	0	0	1	0	0	0	1	Ksimon	5/13/16	6
006	Poor	1,592,653	36.562	0	0	1	0	0	0	1	Ksimon	5/13/16	6
007	Good	26,562	0.610	1	1	1	0	0	0	1	Ksimon	5/13/16	7
008	Poor	59,070	1.356	0	0	0	0	0	0	0	Ksimon	5/13/16	7
009	Poor	18,817	0.432	0	0	0	0	0	0	0	Ksimon	5/13/16	7
010	Good	41,701	0.957	1	1	1	0	0	0	0	Ksimon	5/13/16	7
011	Good	10,357	0.238	1	1	1	0	0	0	0	Ksimon	5/13/16	7
012	Good	17	0.000	1	1	1	0	0	1	0	Ksimon	4/21/16	4
013	Good	840	0.019	1	1	1	0	0	1	0	Ksimon	4/21/16	4
014	Good	2,344	0.054	1	1	1	0	0	1	0	Ksimon	4/21/16	4
015	Good	86	0.002	1	1	1	0	0	1	0	Ksimon	4/21/16	4
016	Good	2,270	0.052	1	1	1	0	0	1	0	Ksimon	4/21/16	4
017	Good	30,027	0.689	1	1	1	0	0	1	0	Ksimon	4/21/16	4
018	Good	1,822	0.042	1	1	1	0	0	0	0	Ksimon	5/9/16	5
019	Good	150,604	3.457	1	1	1	0	0	1	0	Ksimon	4/21/16	4

Conclusions

Often those areas mapped as potential habitat by USGS modeling did not match up with these habitat values and resulted in designation of these areas as fair or poor habitat.

Occasionally the SBFCD facilities were well outside of the recent or known range of this species but were investigated because they were modelled by USGS as areas supporting potential habitat for this species. These areas often did support appropriate soils, vegetation and low levels of human disturbance, resulting in a designation of good habitat.