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Agency Secretary

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# State Water Resources Control Board

## Division of Water Rights

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APPLICATION NO. \_\_\_\_\_

DIV OF WATER RIGHTS  
 SACRAMENTO  
 2007 MAY 9 AM 9:20  
 STATE WATER RESOURCES  
 CONTROL BOARD

## UNDERGROUND STORAGE SUPPLEMENT to APPLICATION TO APPROPRIATE WATER BY PERMIT

1. State amount of water to be diverted to underground storage from each point of diversion in item 3b of form APP.

5a.

- a. Maximum Rate of diversions (1) 250 (2) 250 (3) \_\_\_\_\_ cfs  
 b. Maximum Annual Amount (1) 10,000 (2) 60,000 (3) \_\_\_\_\_ acre-feet

2. Describe any works used to divert to offstream spreading grounds or injection wells not identified in item 7 of form APP.

See Attachment NO. 4

3. Describe spreading grounds and identify its location and number of acres or location of upstream and downstream limits if onstream.

Kern River Channel from milepoint 126.7 to milepoint 114.0 and  
"2800 Acres" Groundwater Recharge Facility, milepoint 114.0 to 106.9

4. State depth of groundwater table in spreading grounds or immediate vicinity:

130 feet below ground surface on June, 2005 ~~19XX~~ measured at a point located within the SE ¼ of NW ¼ of Section 9, T 30S, R 26E, MD B&M

5. Give any historic maximum and or minimum depths to the groundwater table in the area.

Location T30S/R26E Maximum 180 feet below ground surface on 1992 (date)  
 Location T30S/R26E Maximum 50 feet below ground surface on 1983 (date)

6. Describe proposed spreading operation. Diversion of appropriated water to natural Kern

River stream channel through Bakersfield, with water passing to City's "2800 Acres" Recharge Facility.

7. Describe location, capacity and features of proposed pretreatment facilities and/or injected wells. River weirs operated as desilting mechanisms, use of existing facilities.

8. Reference any available engineering reports, studies, or data on the aquifer involved.

California Water Plan Update 2005, Volume 3 - Regional Reports Chapter 8. Tulare Lake Hydrologic Region. "2800 Acres Groundwater Recharge Facility" Environmental Impact Report, February 10, 1983.

9. Describe underground reservoir and attach a map or sketch of its location. Thick deposits

of sedimentary material, permeable sand and gravel lenses with some clay layers. Recharge accomplished from seepage in Kern River channel and dedicated percolation ponds in City "2800 Acres". (maps attached)

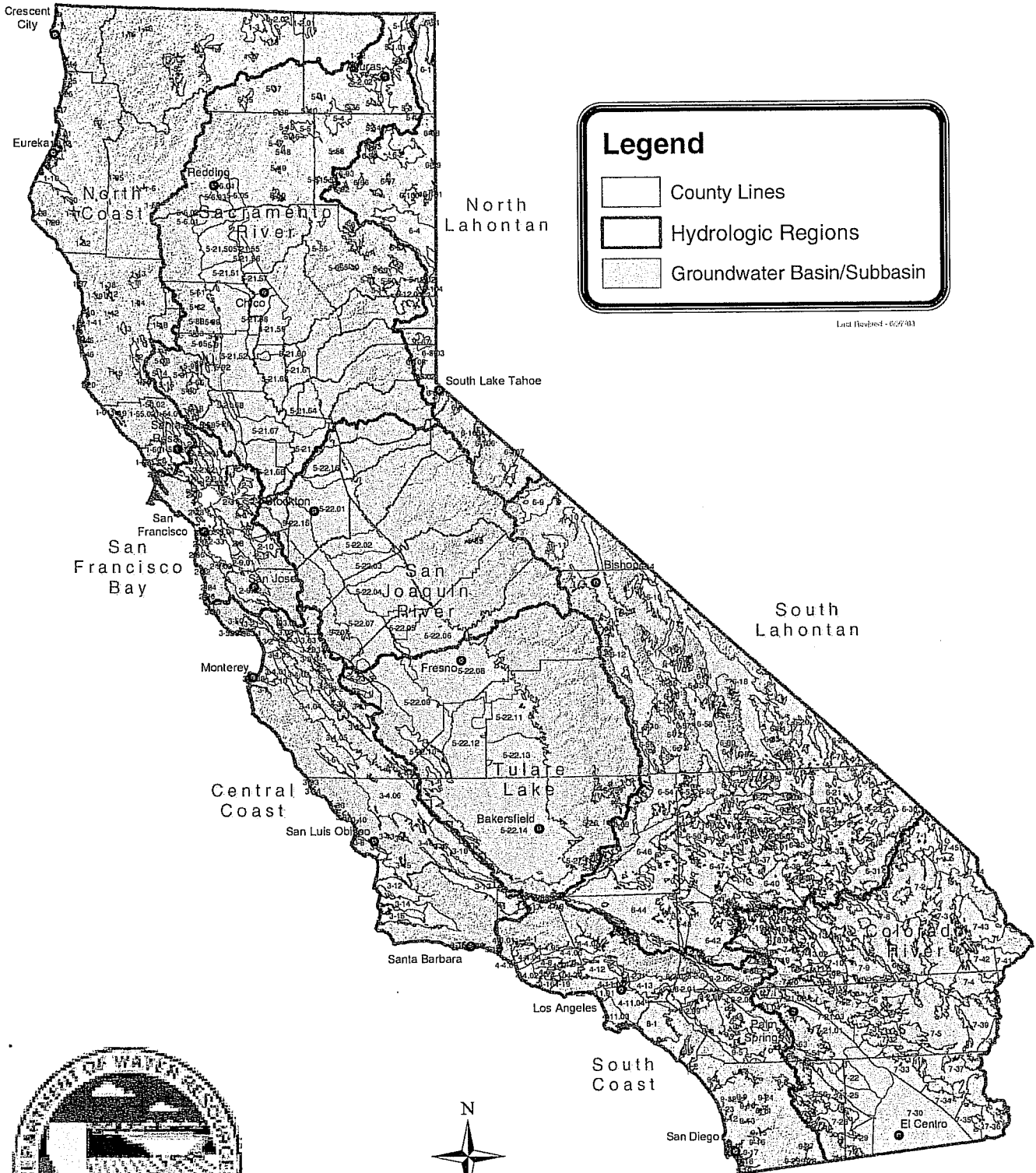
10. State estimated storage capacity of underground reservoir. 2 million + acre-feet

11. Describe existing use of the underground storage reservoir and any proposed change in its




use. Wells producing drinking and incidental irrigation uses in Bakersfield.

12. Describe the proposed method and location of measurement of water placed into and withdrawn from underground storage. Diversions and percolation measured by 24-hour

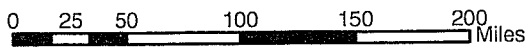
recorder operations of gravity flow measuring structures, verified by routine streamflow metering techniques, based on generally acceptable measuring standards. Withdrawal by turbine well pumping through industry standard flow meters, verified by OPE ratings and meter testing.

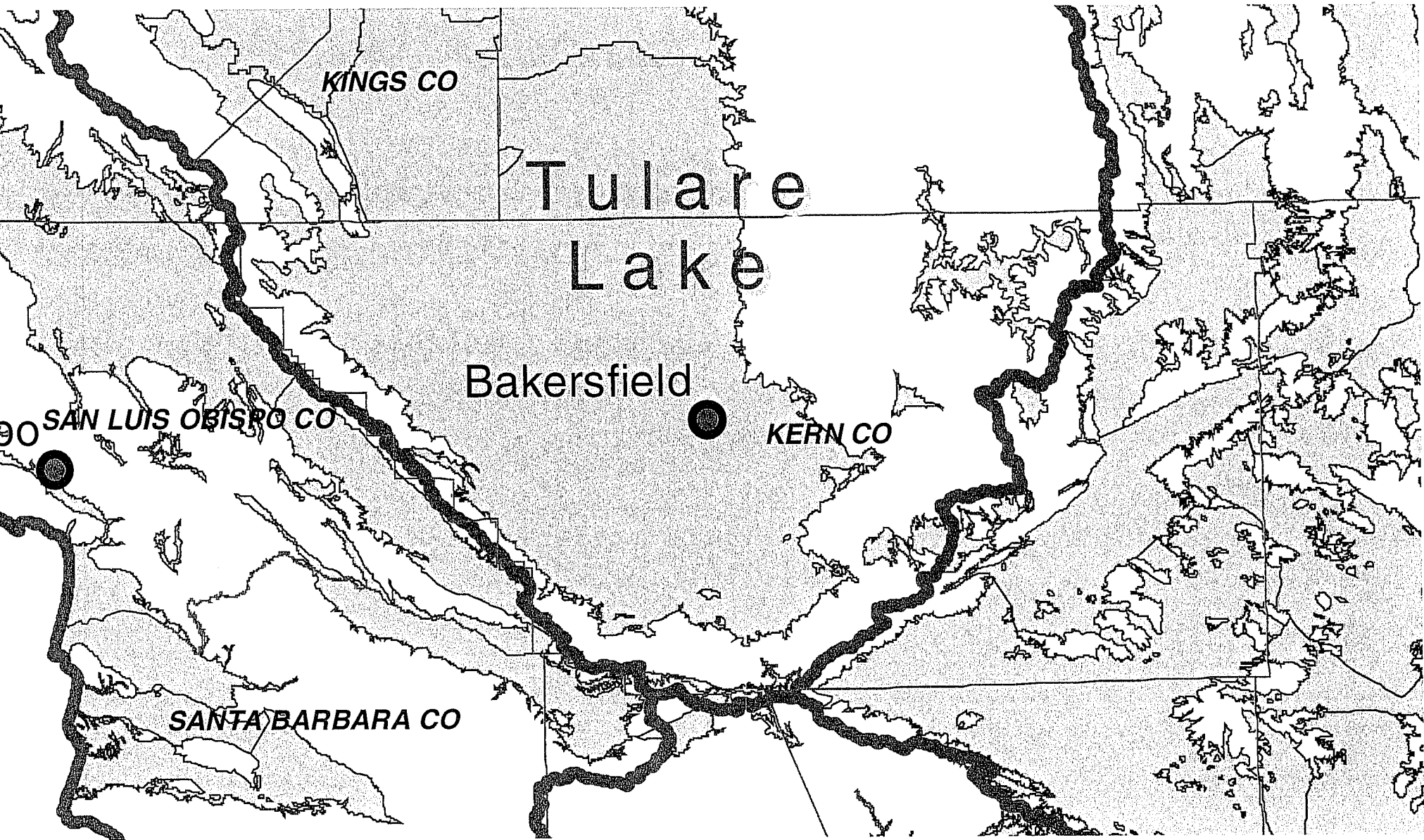


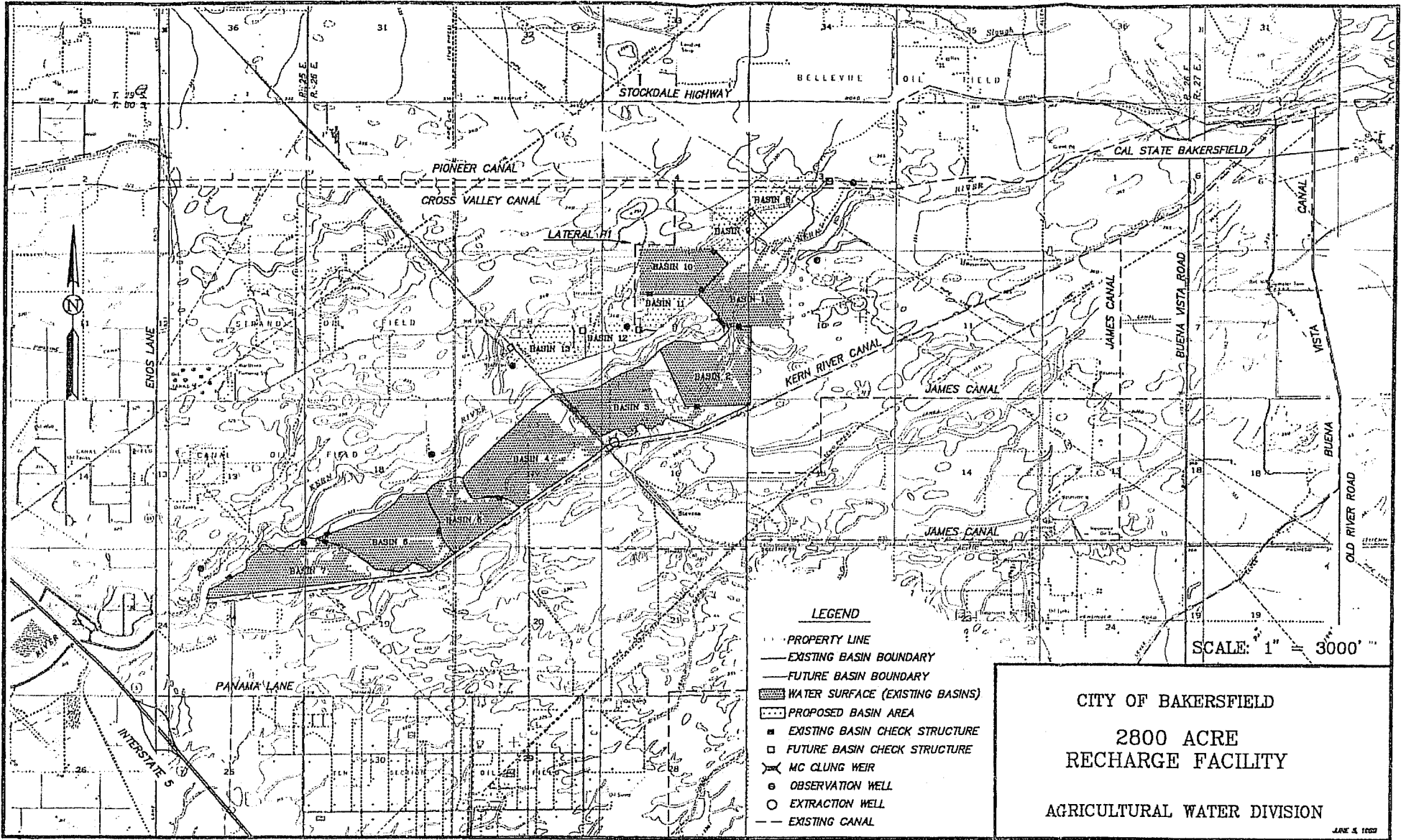
### Legend

-  County Lines
-  Hydrologic Regions
-  Groundwater Basin/Subbasin

Last Revised - 6/9/03







**LEGEND**

- PROPERTY LINE
- EXISTING BASIN BOUNDARY
- - - FUTURE BASIN BOUNDARY
- ▨ WATER SURFACE (EXISTING BASINS)
- ▤ PROPOSED BASIN AREA
- EXISTING BASIN CHECK STRUCTURE
- FUTURE BASIN CHECK STRUCTURE
- ⊗ MC CLUNG WEIR
- OBSERVATION WELL
- EXTRACTION WELL
- - - EXISTING CANAL

SCALE: 1" = 3000'

**CITY OF BAKERSFIELD**  
**2800 ACRE**  
**RECHARGE FACILITY**  
 AGRICULTURAL WATER DIVISION