

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
COLORADO RIVER BASIN REGION**

ORDER NO. 88-67

**WASTE DISCHARGE REQUIREMENTS  
FOR  
COUNTY OF RIVERSIDE  
BLYTHE CLASS III WASTE MANAGEMENT FACILITY  
Blythe - Riverside County**

The California Regional Water Quality Control Board, Colorado River Basin Region, finds that:

1. The County of Riverside, (hereinafter also referred to as the discharger), 11728 Magnolia Avenue, Suite A, Riverside, California 92503, submitted current information to update the waste discharge requirements for an existing Class III landfill at Blythe.
2. The Blythe Waste Management Facility (WMF) has been subject to waste discharge requirements under Board Order No. 84-06. The waste discharge requirements are being updated to comply with Section 13263 of the California Water Code, and to incorporate the applicable provisions of Subchapter 15, Chapter 3, Title 23 of the California Code of Regulations.
3. The discharger submitted a Report of Waste Discharge dated March 1988 and the Solid Waste Assessment Testing (SWAT) report on February 18, 1988, as required by Section 13273 of the California Water Code. The SWAT report contains most of the information required in said Subchapter 15. The remainder of the information required in said Subchapter 15 will be submitted in accordance with a time schedule included in the provisions of this Order.
4. The facility will be reclassified, in accordance with the criteria set forth in Subchapter 15 for Class III landfills, and a determination made as to the need to construct a liner with a leachate collection and removal system in new landfill areas within the WMF or to relocate the facility. This will be based on the technical data contained in the SWAT report and other relevant information.
5. It will be necessary to determine background water quality of the ground water at the facility from a minimum of one year's sampling after which the Regional Board will revise this Order and set numerical limitations on water quality constituents for protection of the ground water from the effects of the waste management facility. The revised order will also include the detection and verification monitoring programs and the corrective action program required in Section 2551 of said Subchapter 15.

The discharger discharges 58 cubic yards per day of non-hazardous solid waste as defined in said Subchapter 15, to a Class III landfill within a 335-acre site in the western half of Section 31 and southeastern quarter of Section 25, T5S, R22E, SBB&M as shown in Attachment A incorporated herein and made a part of this Order. The site is located approximately seven miles north of the City of Blythe with access from Midland Road.

*3-13-91  
Superseded  
with Order  
# 91-005*

7. The total remaining capacity of the landfill is 9,400,000 cubic yards. It has an estimated remaining life of 50 years.
8. Waste disposal at the site is accomplished by the area landfill method of operation. This operation consists of a working face from 40 to 60 feet in length in front of which refuse is placed. The waste is compacted to an estimated density of 1000 pounds per cubic yard. At the end of each day, six inches of cover soil is placed on the working face and the top surface is covered with one foot of soil.
9. The non-hazardous solid waste consists of garbage, rubbish, demolition materials, dead animals, abandoned automobiles, sewage sludge residue, household trash, manures, plant residue, and cleansed pesticide containers.
10. In addition to the non-hazardous solid wastes discharged, the site receives an average of 1500 gallons per day of septic tank pumpings, chemical toilet wastes, and grease trap pumpings. The liquid wastes are discharged into evaporation ponds that are separated from the landfill area.
11. The terrain in the vicinity of the site is characterized by gently sloping, relatively flat alluvial surfaces which extend from the Big Maria Mountains northeast of the site to the edge of the Palo Verde Mesa directly south of the site. The land surface within the boundaries of the site is predominantly flat with scattered erosional channels that trend in a southeasterly direction. Maximum elevation at the site is 450 feet above sea level in the north. Minimum elevation is about 380 feet above sea level in the southwest and southeast corners of the site.
12. The site is underlain by alluvial sediments composed of poorly-sorted, unconsolidated sand, gravel, cobbles, silt and clay. The alluvial deposits are in excess of 300 feet thick. The alluvium is underlain by the Bouse Formation, an indurated deposit of continental and marine rocks of Pliocene age.
13. The soil used as cover material at the site is derived from the Carrizo Soil Series. This soil is characterized as a well-graded sand, gravelly sand to poorly-graded gravel. Permeability of this soil ranges from 6.3 to 20.0 inches per hour which is relatively high.
14. Ground water depth measured in January 1988 in monitoring wells constructed as part of the SWAT program were 180.48 feet below the land surface in the downgradient well BG-1 at the northern edge of the site and 161.67 feet in upgradient well BG-2 along the western edge of the site. Ground water gradient in the vicinity of the site is generally toward the west to southwest.
15. The discharger has installed two 4-inch ground water monitoring wells, and three soil moisture probe sets beneath the planned active fill cell at depths of 2, 3, and 5 feet, as shown in Attachment B incorporated herein and made a part of this Order. Additional probes will be installed as required. The monitoring system complies with the requirements of Article 5 of the said Subchapter 15.
16. Analyses of ground water samples collected from Monitoring Wells BG-1 and BG-2 indicates a total dissolved solids content of 990 mg/l (BG-1) and 870 mg/l (BG-2).

17. Surface water drainage from the watershed above the facility is south to southeastward into the Palo Verde Valley. Ultimately, all surface flows reach the Colorado River, which passes about 5 miles east of the site.
18. A large, normally dry, wash 20 feet deep and at most 500 feet wide, passes directly to the east of the active portion of the site. The drainage area that is tributary to the site is about 5500 acres.
19. The nearest surface water to the site flows southward in canals constructed by the Palo Verde Irrigation District to provide Colorado River water to farmlands in the Palo Verde Valley. The closest canal passes nearly one mile to the southeast of the site.
20. Land within 1000 feet of this site is natural desert east and north of the site, and agricultural lands south of the site.
21. The average annual rainfall for the general vicinity of the site is 4 inches, while evaporation at the site averages 86 inches annually.
22. The Water Quality Control Plan for the Colorado River Basin Region of California was adopted by the Board on November 14, 1984.
23. The Basin Plan delineates the location of the WMF to be in the Colorado Hydrologic Unit which has the following beneficial uses of ground water:
  - a. Municipal supply
  - b. Industrial supply
  - c. Agricultural supply
24. The Board has notified the discharger and interested agencies and persons of its intent to update waste discharge requirements for the discharge. The Board in a public meeting heard and considered all comments pertaining to the existing discharge.
25. These waste discharge requirements govern an existing facility, which the discharger is currently operating, and therefore is exempt from the provisions of the California Environmental Quality Act in accordance with Section 15301, Chapter 3, Title 14 of the California Code of Regulations.

IT IS HEREBY ORDERED, the discharger shall comply with the following:

A. Discharge Specifications

1. The treatment or disposal of waste shall not cause pollution or a nuisance as defined in Section 13050(l) and 13050(m) of the California Water Code.
2. Waste shall be discharged only into waste management units specifically designed for their containment and shall be confined to the WMF as shown in Attachment A.
3. Surface drainage from tributary areas, and internal site drainage from surface or subsurface sources, shall not contact or percolate through the wastes discharged at this site.

4. The exterior surfaces of the landfill, including the intermediate and final covers, shall be graded and maintained to promote lateral runoff of precipitation and to prevent ponding.
5. No solid waste shall be placed in ponded water.
6. The waste management units shall be designed, constructed, operated and maintained to prevent inundation or washout due to floods which could occur as a result of a 100-year, 24 hour storm.
7. Annually, prior to the 1st day of November, any necessary erosion control measures shall be implemented and any necessary construction, maintenance, or repairs of precipitation and drainage control facilities shall be completed to prevent erosion or flooding of the site.
8. Water used for site maintenance shall be limited to the minimum amount necessary for dust control.
9. The discharger shall remove and properly relocate any wastes which are discharged at this site in violation of these requirements.
10. Septic tank pumpings, chemical toilet wastes, and grease trap pumpings shall be discharged in separate disposal cells constructed apart from Class III wastes.
11. Chemical toilet wastes discharged at this site shall not contain additives prohibited by Title 22, Chapter 30, Section 66883 the California Code of Regulations.
12. There shall be no discharge of liquid wastes other than chemical toilet wastes, septic tank pumpings, and grease trap pumpings in the designated disposal cells.
13. The discharge shall not cause degradation of ground or surface waters.

#### B. Prohibitions

1. The discharge or deposit of hazardous waste (as defined in said Subchapter 15) at this site is prohibited.
2. The discharge or deposit of designated waste (as defined in said Subchapter 15) at this site is prohibited unless otherwise approved by the Executive Officer.
3. The discharge of liquid or semi-solid waste (i.e., waste containing less than 50 percent solids) to the landfill units is prohibited.
4. The discharge of wastes to surface waters, or surface water drainage courses is prohibited.

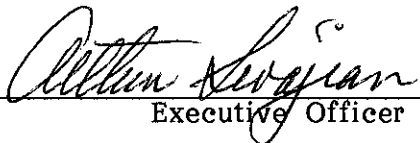
C. Provisions

1. The discharger shall maintain a copy of this Order at the site and make it available at all times to site operating personnel.
2. The discharger shall notify the Regional Board, in writing, of any proposed change in ownership or responsibility for construction or operation of the waste management facility.
3. The discharger shall notify the Regional Board of any material change or proposed change in the character, location, or volume of the wastes discharged and of any proposed expansion plans. This notification shall be accompanied by an amended report of waste discharge and any additional information as may be required by the Regional Board's Executive Officer.
4. The discharger shall comply with "Monitoring and Reporting Program No. 88-67" and future revisions thereto, as specified by the Regional Board's Executive Officer.
5. The discharger shall develop background water quality data of the ground water at the site, as specified by Section 2595(g)(7) in said Subchapter 15. Samples shall be collected quarterly from the background monitoring wells and analyzed for each of the parameters and constituents listed in Monitoring and Reporting Program No. 88-67. During each sampling a minimum of four discrete samples shall be taken from the background monitoring wells.
6. The discharger shall maintain legible records on the volume and type of each waste discharged at the site. These records shall be available for review by representatives of the Board at any time during normal business hours.
7. The discharger shall maintain monuments identifying the boundary limits of the entire waste management facility.
8. By October 1, 1988, the discharger shall submit to the Regional Board for approval by the Executive Officer, a plan and time schedule for compliance with the requirements of the following sections of said Subchapter 15:
  - a. Section 2555: General Ground Water Monitoring Requirements
  - b. Section 2595: Waste Management Unit Characteristics
  - c. Section 2596: Design Report and Operations Plan
9. One year prior to the anticipated closure of the facility or any unit (portion) thereof, the discharger shall submit to the Regional Board, for review and approval by the Executive Officer, a closure and post-closure maintenance plan in accordance with Section 2597 of said Subchapter 15.
10. The discharger shall notify the Regional Board within 7 days if fluid is detected in the moisture probes. A time table shall be included for the submittal of a technical report which will provide the technical data required for the determination of necessary corrective action.
11. By May 1, 1989 the discharger shall submit to the Regional Board and to the State Department of Health Services for review and approval, a report describing a periodic load-checking program to be implemented by the

discharger to ensure that wastes prohibited by this Order are not discharged to the disposal site.

12. The discharger shall immediately notify the Regional Board of any flooding, slope failure or other change in site conditions which could impair the integrity of waste containment facilities or of precipitation and drainage control structures.
13. In the event of any change in ownership of the disposal site, the discharger shall notify the succeeding owner or operator in writing of the existence of this Order. A copy of that notification shall be sent to the Regional Board.
14. The discharger shall comply with all applicable provisions of said Subchapter 15 that are not specifically referred to in this Order.
15. This Order supersedes Board Order No. 84-06.

I, Arthur Swajian, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Colorado River Basin Region, on May, 12, 1988.

  
Executive Officer

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
COLORADO RIVER BASIN REGION**

MONITORING AND REPORTING PROGRAM NO. 88-67  
FOR  
COUNTY OF RIVERSIDE  
BLYTHE CLASS III WASTE MANAGEMENT FACILITY  
Blythe - Riverside County

Location of Discharge:      W $\frac{1}{2}$  of Section 31 and SE $\frac{1}{4}$  of Section 25, T5S, R22E, SBB&M

The discharger shall monitor all wastes discharged to the waste management facility and report to the Regional Board as follows:

WASTE MONITORING

<u>Item</u>	<u>Unit</u>	<u>Reporting Frequency</u>
a. Solid Waste Discharged	Cubic Yards	Quarterly
b. Septic Tank Pumpings and Chemical Toilet Wastes	Gallons	Quarterly
c. Type of Materials Discharged	-	Quarterly
c. Remaining Capacity of the Waste Management Facility	Cubic Yards	Quarterly
d. Any Wastes Discharged Other Than Those Allowed in the Requirements	Type, Volume and Location	Immediately Upon Becoming Aware that the Waste has been Discharged

### GROUND WATER MONITORING

The ground water monitoring wells shall be sampled quarterly during March, June, September and December except as noted. The samples shall be analysed for the following:

<u>Parameters and Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Frequency</u>
1. pH	Number	Grab	Quarterly
2. TDS	mg/l	Grab	Quarterly
3. Specific Conductance	micromhos/cm	Grab	Quarterly
4. Temperature	°C	Grab	Quarterly
5. COD	mg/l	Grab	Quarterly
6. Ground Water Elevations	Feet (USGS Datum)	Measurement	Quarterly
7. Calcium	mg/l	Grab	Quarterly
8. Magnesium	mg/l	Grab	Quarterly
9. Sulphate	mg/l	Grab	Quarterly
10. Sodium	mg/l	Grab	Quarterly
11. Nitrate	mg/l	Grab	Quarterly
12. Organic Nitrogen	mg/l	Grab	Quarterly
13. Volatile Organics (EPA Methods 601, 602)	ug/l	Grab	Quarterly
14. Organochloride Pesticides	ug/l	Grab	Annually

The collection, preservation and holding times of all samples shall be in accordance with EPA approved methods. All analyses shall be conducted by a laboratory certified by the State Department of Health Services to perform the required analyses.

### UNSATURATED ZONE MONITORING

The discharger shall monitor the moisture probes monthly and report the results quarterly. If moisture is detected, reporting shall be as required in Provision C.10.



REPORTING

1. Quarterly monitoring reports shall be submitted to the Regional Board by January 15, April 15, July 15, and October 15 of each year. Annual monitoring reports shall be submitted by the 15th day of January of each year.
2. The discharger shall arrange the data in tabular form so that the specified information is readily discernible. The data shall be summarized in such a manner to clearly illustrate whether the waste management unit is operating in compliance with waste discharge requirements.
3. Submit monitoring reports to:

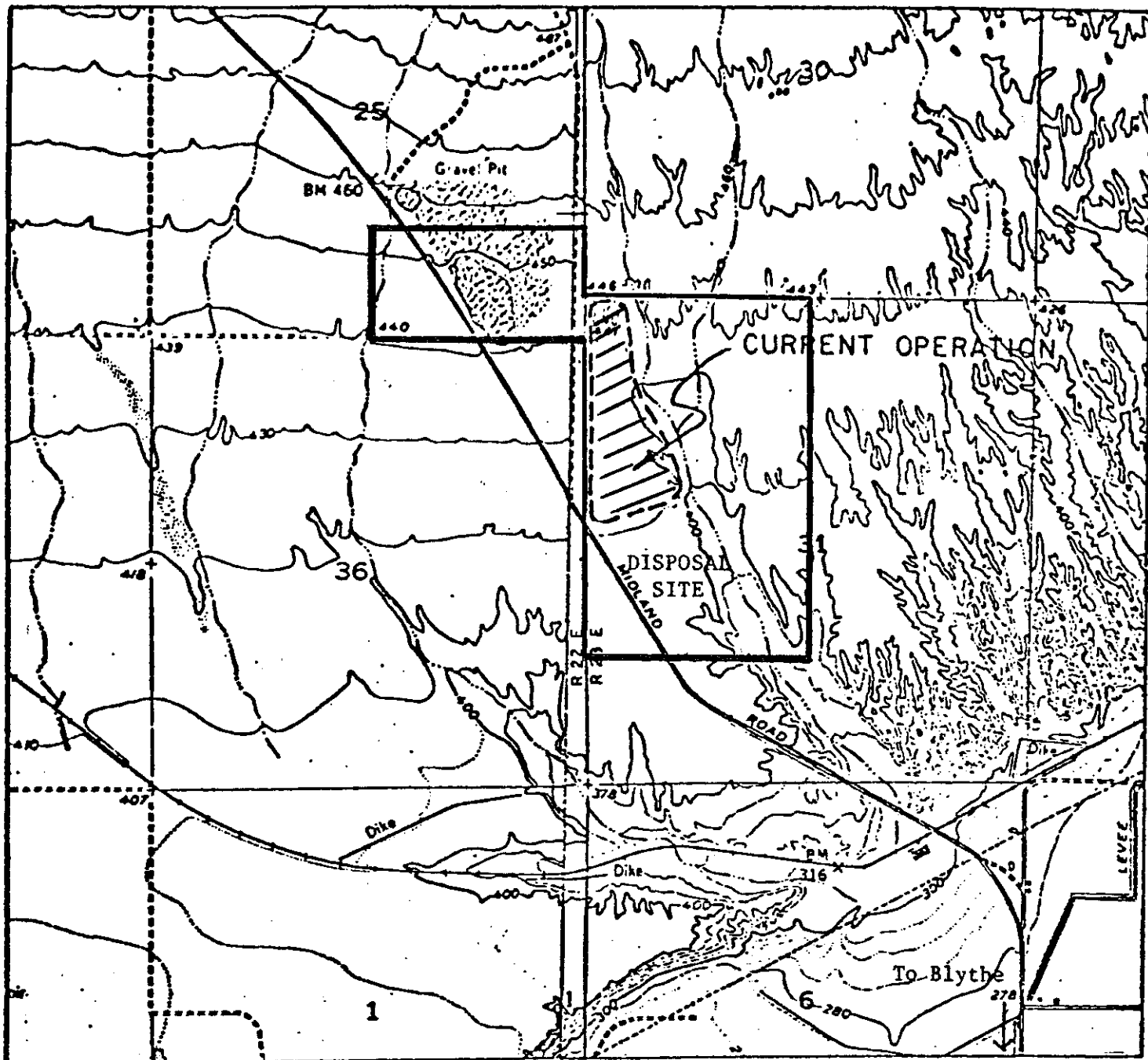
California Regional Water Quality Control Board  
Colorado River Basin Region  
73-271 Highway 111, Suite 21  
Palm Desert, CA 92260

ORDERED BY:

*Alton Severson*  
Executive Officer

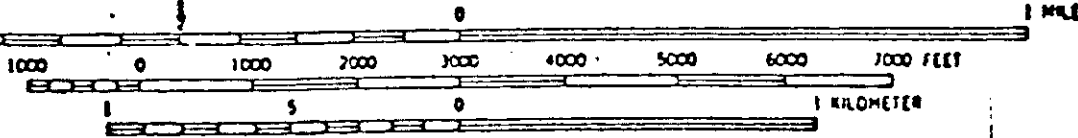
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Date



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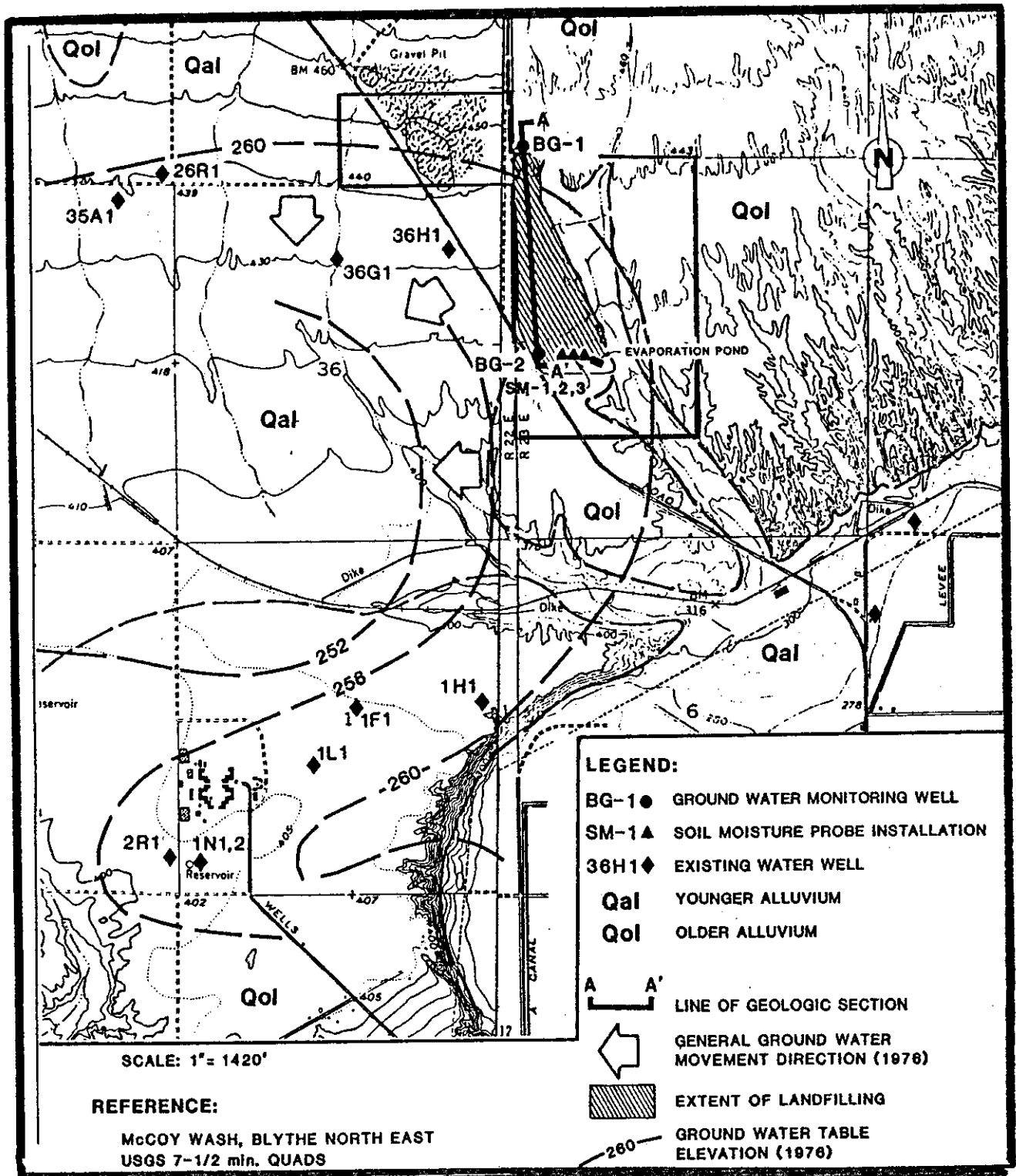


ATTACHMENT A

COUNTY OF RIVERSIDE  
BLYTHE CLASS III WASTE MANAGEMENT FACILITY  
Blythe Area - Riverside County

W $\frac{1}{2}$  Section 31 and SE $\frac{1}{4}$  Section 25, T5s, R22E, SBB&M

Order No. 88-67



ATTACHMENT B

COUNTY OF RIVERSIDE  
 BLYTHE CLASS III MANAGEMENT FACILITY  
 Location of Ground Water Monitoring Wells  
 Blythe Area - Riverside County