



*California Environmental Protection Agency Department of  
Toxic Substances Control*

**HAZARDOUS WASTE FACILITY  
POST-CLOSURE PERMIT**

Facility EPA ID No.: CAT000624056

Effective Date: ~~July 19, 2007~~

Expiration Date: ~~July 19, 2017~~ April 1, 2018

Permit History:

HAZARDOUS WASTE FACILITY POST-CLOSURE PERMIT ISSUED APRIL 30, 1991, ~~EXPIRED-SCHEDULED TO~~

EXPIRE ON APRIL 30, 2001, BUT SERVED AS THE PERMIT DURING THE PERMIT RENEWAL

Permit Number: 05-SAC-10

Facility Name:

Chemical Waste Management Bakersfield  
27001 Round Mountain Road  
Bakersfield, CA 93308

Owner Name:

Chemical Waste Management, Inc.  
27001 Round Mountain Road Bakersfield,  
CA 93308

Operator Name:

Chemical Waste Management, Inc.  
27001 Round Mountain Road  
Bakersfield, CA 93308

Pursuant to section 25200 of the California Health and Safety Code, this Resource Conservation and Recovery Act (RCRA) equivalent Hazardous Waste Facility Post-closure Permit is hereby issued to the Chemical Waste Management Facility. Issuance of this Permit, which consists of 14 pages plus attachments, is subject to all terms and conditions set forth herein.

//original signed by//

\_\_\_\_\_  
James M. Pappas, P.E.  
Chief, Northern California Permitting and  
Corrective Action Branch  
Hazardous Waste Management Program

Date: - t.(-y 2) <sup>1</sup> **1** ci 00 \_\_\_\_\_

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PART I. DEFINITIONS

All terms used in this Permit shall have the same meaning as those terms have in the California Health and Safety Code, Division 20, Chapter 6.5 and Title 22, California Code of Regulations, Division 4.5, unless expressly provided otherwise by this Permit.

1. "DTSC" as used in this Permit means the California Department of Toxic Substances Control.
2. "Permittee" as used in this Permit means the Owner and Operator.
3. "HSC" as used in this Permit means the Health and Safety Code.
4. "Cal. Code of Regs." as used in this Permit means the California Code of Regulations.
5. "Approved Application" as used in this Permit means the Part A and Part B portions of the permit application described in Part 111.1 of this Permit.
6. Unless explicitly stated otherwise, all references to items in this Permit shall refer only to items occurring within the same part.

## PART II. DESCRIPTION OF THE FACILITY AND OWNERSHIP

### 1. OWNER

The facility owner is Chemical Waste Management, Inc. (hereafter "Owner"), a wholly owned subsidiary of Waste Management, Inc.

### 2. OPERATOR

The facility operator is Chemical Waste Management, Inc. (hereafter "Operator"), a wholly owned subsidiary of Waste Management, Inc.

### 3. LOCATION

The Chemical Waste Management, Inc. Bakersfield Facility is located approximately 13 miles northeast of the City of Bakersfield at 27001 Round Mountain Road. The facility's geographic coordinates are 35 32' N, 118 55 W. The facility is located on Lot 2 of the northern 1/2 of Section 2, T28S, R28E, Mount Diablo Base and Meridian. Kern County Assessors Parcel Numbers for this site are 093-010-05-00-6, 093-010-06-00-9. A location map of the facility is provided in Attachment 1, and a description of the Facility is provided in Attachment 2.

### 4. DESCRIPTION

The Facility is a closed 150 acre site which was used for the disposal of Class II-1 designated wastes. These wastes consisted of liquid, semi-solids, and solid wastes which were predominantly generated from local oil field exploration and production. A large portion of these wastes consisted of inorganic compounds which may be nonhazardous or RCRA Subtitle C exempt. ~~Although less prominent, these wastes also contained or were mixed with hazardous or RCRA Subtitle C constituents. Such wastes included metals, hydrocarbons, organic solvents, and biocides.~~

The Facility was opened in 1973 by the M.P. Disposal Company. On August 21, 1981 the M.P. Disposal Company notified the California Department of Health Services (DHS) of sale of the Facility to Chemical Waste Management. Chemical Waste Management continued hazardous waste disposal operations at the site until October 1985. At the time of closure, the Facility was composed of two waste management units known as the Eastern and Western Waste Management Units, and within these waste management units were nine surface impoundments, two landfills, and a land spreading area. These disposal areas are described in greater detail in Part IV of this Permit.

On June 26, 1987 DHS approved the Facility's Closure Plan. The approved Closure Plan proposed closure construction work to permanently contain the disposed wastes left in place at the Facility. In 1987 closure construction work was completed. Closure construction work included stabilization of liquids and sludges in all surface impoundments, consolidation of contaminated material from unmanaged areas into designated waste management units, grading for placement of a closure cover, placement of the closure cover, construction of drainage and erosion control features, and vegetation of

the closure cover. The closure cover was installed on approximately 91 acres and included 18 inches of compacted clay and 15 inches of top soil.

#### 5. FACILITY SIZE AND TYPE FOR FEES

The Facility is categorized as a large post-closure facility for purposes of HSC, section 25205.19. For the purpose of HSC, section 25205.4, the post-closure period for the Facility shall be deemed to have started April 1, 1988, the date the Facility closed and transmitted to DHS the Chemical Waste Management Inc. *Closure Construction Report* and *Certification Submittal*. Closure certification was accepted by DHS on March 31, 1989. Unless the post-closure care period is extended or shortened pursuant to Title 22, section 66264.117, the post-closure care period will end on April 1, 2018.

### **PART III. GENERAL CONDITIONS**

#### **1. PERMIT APPLICATION DOCUMENTS**

On March 30, 1981, DHS issued an Interim Status document to the M.P. Disposal Company for the Facility which was transferred to Chemical Waste Management, Inc. upon purchase of the site in 1981. On April 30, 1991 DHS issued the Facility's first 10-year post-closure permit.

The RCRA Subtitle C Site Identification Form, Revised RCRA Hazardous Waste Part A Permit Application, signed by Mr. Phil Perley, Closed Site Project Manager for Chemical Waste Management Inc.; and the Chemical Waste Management, Inc. Bakersfield Facility RCRA Post-Closure Permit Renewal Application Part B, dated August 5, 2005 is hereby approved and made a part of this Permit by reference (hereafter "Approved Application").

#### **2. EFFECT OF PERMIT**

(a) The Permittee shall comply with the provisions of the California Health and Safety Code, and Division 4.5 of Title 22, California Code of Regulations (Title 22, Cal. Code Regs.). The issuance of this Permit by DTSC does not release the Permittee from any liability or duty imposed by federal or state statutes or regulations or local ordinances, except the obligation to obtain this Permit. The Permittee shall obtain the permits required by other governmental agencies, including but not limited to, the applicable land use planning, zoning, hazardous waste, air quality, water quality, and solid waste management laws for the construction and/or operation of the post-closure Facility.

(b) The Permittee is permitted to monitor and maintain the post-closure Facility in accordance with the conditions of this Permit and the Approved Application. Any treatment or storage of hazardous wastes not specifically authorized in this Permit or described in the Approved Application is strictly prohibited.

(c) Compliance with the terms of this Permit does not constitute a defense to any action brought under any other law governing protection of public health or the environment, including, but not limited to, one brought for any imminent and substantial endangerment to human health or the environment.

(d) DTSC's issuance of this Permit does not prevent DTSC from adopting or amending regulations that impose additional or more stringent requirements than those in existence at the time this Permit is issued and does not prevent the enforcement of these requirements against the Permittee.

(e) Failure to comply with any term or condition set forth in this Permit in the time or manner specified herein will subject the Permittee to possible enforcement action including but not limited to penalties pursuant to HSC section 25187. In addition, failure to submit any information required in connection with this Permit, or falsification and/or misrepresentation of any submitted information, is grounds for revocation of this Permit (Title 22, Cal. Code of Regs., section 66270.43).

(f) In case of conflicts between the Approved Application and this Permit, the Permit conditions take precedence.

(g) This Permit includes and incorporates by reference any conditions of waste discharge requirements issued to the Facility by the State Water Resources Control Board or the California Regional Water Quality Control Board, Central Valley Region, and any conditions imposed pursuant to section 13227 of the Water Code.

### 3. COMPLIANCE WITH CALIFORNIA ENVIRONMENTAL QUALITY ACT

A Notice of Exemption has been prepared in accordance with the requirements of Public Resources Code section 21000 et seq. and the California Environmental Quality Act Guidelines, which are codified in Title 14, Cal. Code of Regs., section 15070 et seq.

### 4. ENVIRONMENTAL MONITORING

At the time of issuance of this permit, the environmental monitoring plan used by the Facility is contained in the document *Amended Report of Waste Discharge Groundwater Monitoring Plan Chemical Waste Management, Inc. Bakersfield Facility Kern County, California* (Einarson Geoscience, Oct 1995), and comments contained in the document *Response to RWQCB Review of the Groundwater Monitoring Plan and Corrective Action Plan Chemical Waste Management Bakersfield Facility* (Einarson, Fowler & Watson, Oct 1997). These documents are hereby included in this permit by reference, and are hereafter referred to as the Approved Environmental Monitoring Plan.

At the time of issuance of this permit, the Permittee has also submitted to DTSC, a revised Site Specific Water Quality Monitoring Plan (SSWQMP). Upon written approval by DTSC, the ~~revised~~ most recently approved version of the SSWQMP will be adopted as the Approved Environmental Monitoring Plan for purposes of this permit.

(a) For the purpose of Title 22, Cal. Code of Regs., section 66264.91(b), the elements of the Groundwater Monitoring and Response Program for the CWM Bakersfield Facility are those described in Sections 3.1.2, 3.1.3, and 3.1.4 of the Approved Environmental Monitoring Plan. Upon written approval by DTSC, the ~~revised~~ most recently approved version of the SSWQMP will be adopted as the Approved Environmental Monitoring Plan and shall document the elements of the Groundwater Monitoring and Response Program contained in Title 22, Cal. Code of Regs., section 66264.91(b).

(b) For the purpose of Title 22, Cal. Code of Regs., section 66264.92, the Water Quality Protection Standard for the CWM Bakersfield Facility is described in Sections 3.0 and 4.0 of the Approved Environmental Monitoring Plan. Upon written approval by DTSC, the ~~revised~~ most recently approved version of the SSWQMP will be adopted as the Approved Environmental Monitoring Plan and shall document the elements of the Water Quality Protection Standard contained in Title 22, Cal. Code of Regs., section 66264.92.

(c) For the purpose of Title 22, Cal. Code of Regs., section 66264.93, the Constituents of Concern for the CWM Bakersfield Facility are described in Section 4.1 of the Approved Environmental Monitoring Plan. Upon written approval by DTSC, the ~~revised~~ most recently approved version of the SSWQMP will be adopted as the Approved Environmental Monitoring Plan and shall document the Constituents of Concern per Title 22, Cal. Code of Regs., section 66264.93.

(d) For the purpose of Title 22, Cal. Code of Regs., section 66264.94, the Concentration Limits for the CWM Bakersfield Facility are described in section 4.4 of the Approved Environmental Monitoring Plan. Upon written approval by DTSC, the ~~revised-most recently approved version of the~~ SSWQMP will be adopted as the Approved Environmental Monitoring Plan and shall document the Concentration limits per Title 22, Cal. Code of Regs., section 66264.94. Concentration Limits may vary over time in accordance with statistical and other procedures set forth in the Approved Environmental Monitoring Plan.

(e) For the purpose of Title 22, Cal. Code of Regs., section 66264.95, the Monitoring Points and Points of Compliance for each regulated unit at the CWM Bakersfield Facility are described in Sections 3.1.2, 3.1.3, and 3.1.4 of the Approved Environmental Monitoring Plan. Upon written approval by DTSC, the ~~revised-most recently approved version of the~~ SSWQMP will be adopted as the Approved Environmental Monitoring Plan and shall document the Monitoring Points and Points of Compliance for each regulated unit per Title 22, Cal. Code of Regs., section 66264.95.

(f) For the purpose of Title 22, Cal. Code of Regs., section 66264.96, the Compliance Period for the Western Waste Management Unit at the CWM Bakersfield Facility will continue until the owner or operator can demonstrate that the regulated unit has been in compliance with the water quality protection standard of section 66264.92 for a period of three consecutive years.

(g) For the purpose of Title 22, Cal. Code of Regs., section 66270.31, the monitoring, recording, and reporting program for the CWM Bakersfield Facility is described in Section 4.6 of the Approved Environmental Monitoring Plan. Upon written approval by DTSC, the most recently approved version of the ~~revised~~-SSWQMP will be adopted as the Approved Environmental Monitoring Plan and shall document the monitoring, recording, and reporting program per Title 22, Cal. Code of Regs., section 66270.31.

The location of groundwater monitoring wells is provided in ~~Attachment 3~~ the most recently approved version of the SSWQMP.

## 5. CONDITIONS APPLICABLE TO ALL PERMITS

Title 22, Cal. Code of Regs., section 66270.30, Conditions Applicable to All Permits, is incorporated by this reference.

## 6. MODIFICATIONS

(a) The Permittee must request and obtain a permit modification to revise any portion of this Permit. To request such a revision, the Permittee must comply with the procedures for permit modifications set forth in Title 22, Cal. Code Regs., section 66270.42.

(b) If at any time DTSC determines that modification of any part of this Permit is necessary, DTSC may initiate a modification in accordance with the procedures in Title 22, Cal. Code Regs., section 66270.41.

|

**PART IV. PERMITTED UNITS AND ACTIVITIES**

The CWM Bakersfield Facility has two hazardous waste management units known as the Eastern Waste Management Unit (EWMU) and Western Waste Management Unit (WWMU). Enclosed within each of these waste management units are smaller individual land disposal areas. These waste management units and individual disposal areas are described in greater detail in the Approved Application. The primary disposal areas in the two waste management units include nine former surface impoundments, two landfills, and one land spreading area. These areas are shown in the table below and in Attachment 4. All disposal areas are overlain by the closure cover which is constructed of 18 inches of compacted clay and 15 inches of top soil. The extent of the closure cover is shown in Attachment 3.

<b>Disposal unit type</b>	<b>Unit name</b>	<b>Location within facility</b>	<b>Capacity</b>
Surface impoundment	P-1	Eastern Waste Management Unit	3,400,000 gallons
Surface impoundment	P-2	Eastern Waste Management Unit	5,300,000 gallons
Surface impoundment	P-3	Eastern Waste Management Unit	5,100,000 gallons
Surface impoundment	P-5	Eastern Waste Management Unit	5,000,000 gallons
Surface impoundment	P-6	Eastern Waste Management Unit	3,000,000 gallons
Surface impoundment	P-7	Eastern Waste Management Unit	3,500,000 gallons
Surface impoundment	P-1W	Western Waste Management Unit	3,700,000 gallons
Surface impoundment	P-2W	Western Waste Management Unit	3,800,000 gallons
Surface impoundment	P-3W	Western Waste Management Unit	400,000 gallons
Landfill/ <u>Spreading Area</u>	B-1/ <u>S-1</u>	Eastern Waste Management Unit	500,000 cu yards
Landfill	B-1W	Western Waste Management Unit	100,000 cu yards
<u>Drilling mud/Spreading Area Mud/Spreading area</u>	S-1	<del>Eastern-Western</del> Waste Management Unit	---

Collection and removal of leachate within the EWMU is accomplished through riser pipes connected to below ground collection sumps that are included in surface impoundments P-1, P-2, P-3, P-5, and P6. A detention pond known as the North West Canyon ~~Sump or~~ Collection Point is located ~~in the north of the~~ WWMU to collect groundwater affected by a pervious release from ~~an adjacent disposal area~~ the WWMU. The WWMU ~~otherwise~~ does not have leachate collection or removal for any of the disposal areas within its boundaries. The P-2 EWMU leachate risers and the North West Canyon ~~Sump~~ Collection Point are shown in Attachment 5 and Attachment 6.

## PART V. SPECIAL CONDITIONS

The Department of Toxic Substances Control requires the CWM Bakersfield Facility to implement one of the following alternatives to address the future long term care of the site:

~~1. Within 60 days of the effective date of the permit, submit a waste declassification notification pursuant to California Code of Regulations, title 22, section 66260.200; or~~

~~2.1. Within 60 days of the effective date of the permit, s~~Submit a work plan demonstrating the Facility will meet the closure by removal and decontamination standards of chapter 14 of division 4.5 of the California Code of Regulations, title 22; or

~~3.2.~~Complete each of the following:

a. Submit ~~a~~ revised financial assurance ~~equal to a 30-year~~ cost estimate ~~through April 1, 2018~~ approved by DTSC for all elements of post-closure care. ~~Attachment 7 provides a DTSC derived 30-year cost estimate. Should CWM not provide an alternate cost estimate which is deemed adequate by DTSC, CWM shall use the cost estimate included in Attachment 7. A R~~revised financial assurance ~~based on a DTSC approved 30-year~~ cost estimate ~~through April 1, 2018~~ for all elements of post-closure care shall be submitted within 60 days from the effective date of the permit.

~~b. Submit engineering plans and specifications to reconstruct the closure cover to original design specifications that meet regulatory requirements. These plans and specifications should specify a cover that includes the following components or their equivalent: a low hydraulic conductivity layer consisting of 24 inches of compacted clay and a geomembrane of a minimum thickness of 60 mil, a drainage layer, a biotic barrier layer, and a top soil layer of at least 24 inches. Plans and specifications must be submitted within 90 days from the effective date of the permit. Construction shall begin within 30 days of plan approval and must be complete within 180 days of initiation.~~

~~e. Submit a cost estimate and financial assurance for cover reconstruction. This cost estimate will be included in the approved 30-year cost estimate which addresses all elements of post-closure care. The revised cost estimate and financial assurance for cover reconstruction shall be submitted within 60 days from the effective date of the permit.~~

~~d.b.~~Submit ~~monthly~~ leachate measurements ~~in the periodic monitoring reports, and quarterly~~ leachate production reports, ~~that document~~ monthly rainfall totals.

~~e.c.~~Submit a survey plat which shows the exact boundaries of the current closure cover and all disposal areas superimposed on a parcel map. The survey plat shall be submitted within 90 days from the effective date of the permit.

~~f.~~Submit plans and specifications to repair and upgrade ~~Maintain site~~ fencing to effectively prevent cattle from entering the premises. ~~Plans and specifications shall be submitted within 60 days from the effective date of the permit. Construction shall begin within 30 days of plan approval and should be complete within 180 days of initiation.~~

## **PART VI. CORRECTIVE ACTION**

### **1. POTENTIAL OR IMMEDIATE THREATS/NEWLY IDENTIFIED RELEASES/ NEWLY IDENTIFIED SWMUs**

(a) In the event the Permittee identifies an immediate or potential threat to human health and/or the environment, discovers new releases of hazardous waste and/or hazardous constituents, or discovers new Solid Waste Management Units (SWMUs) not previously identified, the Permittee shall notify DTSC orally within 24 hours of discovery and notify DTSC in writing within ten (10) days of such discovery summarizing the findings including the immediacy and magnitude of any potential threat to human health and/or the environment. Newly identified hazardous constituents discovered during routine groundwater sampling shall be reported in accordance the reporting provisions of the approved Environmental Monitoring Plan.

(b) DTSC may require the Permittee to investigate, mitigate and/or take other applicable action to address any immediate or potential threats to human health and/or the environment, SWMUs, or newly identified releases of hazardous waste and/or hazardous constituents. Corrective action shall be carried out under either a Corrective Action Consent Agreement or Unilateral Corrective Action Order pursuant to HSC, section 25187. (Attach CACA or Unilateral Order if finalized.)

### **2. SAMPLING AND ACCESS**

#### **(a) Sampling**

(1) The Permittee shall provide confirmatory samples to DTSC within the time requested by DTSC to determine if there is a threat to human health and/or the environment. The sampling shall be done in accordance with guidance that DTSC supplies to the Permittee.

(2) The Permittee shall notify DTSC in writing at least fourteen (14) days prior to beginning any confirmatory sampling requested by DTSC. If the Permittee believes it must commence emergency confirmatory sampling without delay, the Permittee may seek emergency telephone authorization from DTSC's Land Disposal Branch Chief or, if unavailable, his/her designee to commence such activities immediately. At the request of DTSC, the Permittee shall provide or allow DTSC or its authorized representative to take split or duplicate samples of all samples collected by the Permittee pursuant to this Part of this Permit.

(3) The Permittee shall submit to DTSC upon request the results of all sampling and/or tests or other data generated by its employees, divisions, agents, consultants or contractors pursuant to this Permit.

(4) Notwithstanding any other provisions of this Permit, DTSC retains all information gathering and inspection authority rights including enforcement actions related thereto, under HSC and any other applicable state or federal statutes or regulations.

(b) Access

(1) DTSC, its contractors, employees, agents, and/or any U.S. EPA representatives are authorized to enter and freely move about the Facility pursuant to the entire Permit for the purposes of: interviewing Facility personnel and contractors; inspecting records, operating logs, and contracts relating to the Facility; reviewing progress of the Permittee in carrying out the terms of this Permit; conducting such tests, sampling, or monitoring as DTSC deems necessary; using a camera, sound recording, or other documentary-type equipment; verifying the reports and data submitted to DTSC by the Permittee; or confirming any other aspect of compliance with this Permit and Division 20, Chapter 6.5 of the H&SC. The Permittee shall provide DTSC and its representatives access at all reasonable times to the Permittee's Facility and any other property to which access is required for implementation of any provision of this Permit and any provision of Division 20, Chapter 6.5 of the H&SC and shall allow such persons to inspect and copy all records, files, photographs, documents, including all sampling and monitoring data, that pertain to work undertaken pursuant to this Permit or undertake any other activity necessary to determine compliance with applicable requirements. DTSC acknowledges that the Facility is ~~not manned 24 hours a day closed~~. DTSC will provide reasonable notice when requiring access to the site.

(2) To the extent that work being performed pursuant to this Part of this Permit must be done on property not owned or controlled by the Permittee, the Permittee shall use its best efforts to obtain access agreements necessary to complete work required by this Part from the present owner(s) or operator of such property within ninety (90) days of approval of any workplan for which access is required. "Best efforts" as used in this paragraph shall include, at a minimum, a certified letter from the Permittee to the present owner(s) of such property requesting access agreement(s) to allow the Permittee and DTSC and its authorized representatives access to such property and the payment of reasonable sums of money in consideration of granting access. The Permittee shall provide DTSC with a copy of any access agreement(s). In the event that agreements for the access are not obtained within ninety (90) days of approval of any workplan for which access is required, or of the date that the need for access becomes known to the Permittee, the Permittee shall notify DTSC in writing within fourteen (14) days thereafter regarding both efforts undertaken to obtain access and its failure to obtain such agreements. In the event DTSC obtains access, the Permittee shall undertake approved work on such property.

(3) Nothing in this Permit shall be construed to limit or otherwise affect the Permittee's liability and obligation to perform corrective action including corrective action beyond the facility boundary, notwithstanding the lack of access. DTSC may determine that additional on-site measures must be taken to address releases beyond the Facility boundary if access to off-site areas cannot be obtained.

(4) Nothing in this Permit shall limit or otherwise affect DTSC's right to access and entry pursuant to any applicable state or federal laws and regulations.

PART VII. ATTACHMENTS

Attachment 1. Location map

Attachment 2. Description of facility

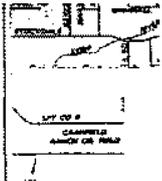
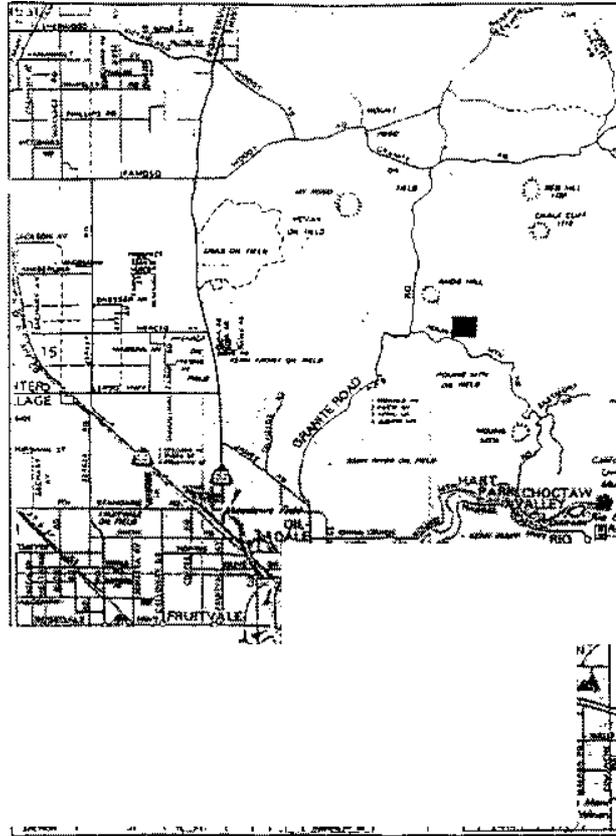
Attachment 3. ~~Groundwater monitoring locations, Approved Specific Water Quality Monitoring Plan  
waste management units, and closure cover area~~

Attachment 4. Disposal units

Attachment 5. ~~PO2 LCRS~~ Leachate riser in EWMU

Attachment 6. Northwest Canyon ~~Leachate Sump in WWMU~~ Collection Point

~~Attachment 7. CWM Bakersfield Post-Closure Cost Estimate~~



SOURCE THOMAS BROS. MAPS —CALIFORNIA  
ROAD ATLAS AND DRIVERS GUIDE,  
COPYRIGHT 1988

**SCALE**

0                      5                      10 MILES

**Attachment 1. Location map**

**Chemical Management,**

Post Office Box 47  
Kettleman City, California 93239  
NW 209/386.9711

June 26 1989

Regional Administrator  
Toxic Substances Control Division  
U.S. Environmental Protection Agency  
215 Fremont  
San Francisco, CA 94105

Vernon Reichard, Director  
Kern County Environmental Health Division  
Hazardous Materials Management Program  
2700 M Street, Suite 300  
Bakersfield, CA 93301

RE: Chemical Waste Management's Bakersfield Facility Post--Closure  
Notices (CAT 000624056)

Dear Sir:

Pursuant to 40 CFR 264.119 and 22 CCR Section 67219, enclosed please find a record of the type, location and quantity of hazardous waste disposed of in each waste management unit. This information was previously submitted in the CLOSURE AND POST-CLOSURE PLANS, Bacon Associates (November 1985). These sections, it may be noted, refer to the quantity of waste disposed, not the quantity treated. Large quantities of hazardous waste, for example, typically flow through a treatment facility during its operating life but are not disposed there.

Surface impoundments treat hazardous waste in part by evaporation, and over their useful life will treat a quantity of waste much larger than their volume capacity. At the end of their useful life, a quantity of waste sludges and other materials typically remain in the impoundment. This submittal, therefore, quantifies the amount and types of waste disposed of in the units for final closure, not the amount of waste treated in the units over their lifetime. The surface impoundments were closed by solidifying sludges remaining at the time of closure. Additionally, during closure activities, waste (contaminated soil) from undesignated areas onsite was disposed of in the surface impoundments. Therefore, the volume of waste disposed of in each surface impoundment is interpreted as being its entire volume (see Table 1)

Waste streams at the facility consisted principally of oil field related wastes (e.g. flue gas scrubber water, oily water, soil



contaminated with oil, etc.). Depending upon site conditions and capacity, it is possible that any type of waste accepted at the facility was treated in any one impoundment. All of the impoundments are regulated equally as far as closure and post-closure requirements. For this reason, it is not necessary to identify in great detail the types of waste accepted into each individual impoundment. However, from the review of existing facility records an account has been made of the predominant waste streams accepted at each impoundment (see Table 1).

In a letter dated April 1, 1983, Chemical Waste Management submitted the survey plat required by the same statutes. This is to confirm that no changes to that survey plat are necessary due to the additional waste exploration activities conducted at the facility.

Please do not hesitate to call with any questions you may have regarding this submittal.

Sincerely,  
CHEMICAL WASTE MANAGEMENT, INC.

//original signed by//

Catherine R. Nager  
Environmental Analyst

ENCLOSURE

- CC: Randy Abbott, ECPAD  
Jim Brightlow, EPA  
Frank Dellechiaie, DBE  
Michael Feeley, EPA (T-2-4)  
John Papathakis, DHE  
Bill Pfister, RWQCB  
Mostafa Radmand, EPA  
Cliff Raley, RWQCB  
Gerald White, DNS



<b>Waste Management Unit</b>	<b>Volume (cubic yards)</b>	<b>Predominant Waste* Type</b>
P-1	16,835	Tank bottoms
P-2	26,243	Drilling mud Scrubber water
P-3	25,253	Waste water Scrubber water
P-5	24,757	Scrubber water
P-6	14,854	Waste water Scrubber water
P-7	17,330	Tank bottoms
P-1W	18,320	Drilling mud Waste water
P-2W	18,816	Drilling mud
P-3W	1,981	Drilling mud
S-1	500,0010	Drilling mud, Contaminated soil
8-1W	100,0D0	Drilling mud, Contaminated soil

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'This Table is excerpted from the CLOSURE AND POST-CLOSURE  
PLANS, EMCON Associates (November 1985)

**Attachment 2.** Description of facility







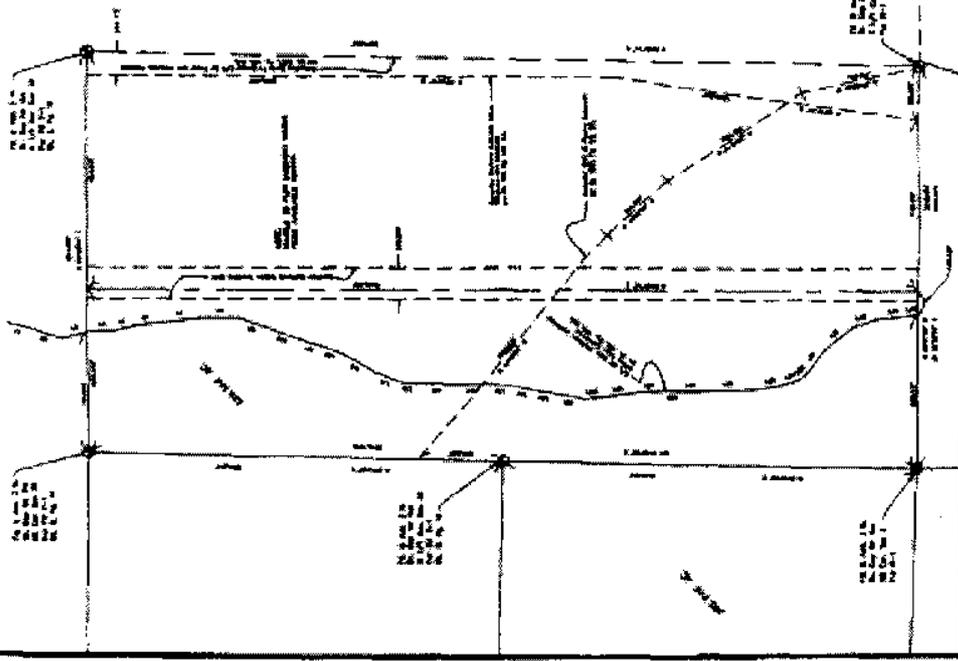
# Record of Survey

Presented by J. J. ...  
 State of California  
 - State of California -



WMMMMMMMM11111111  
 49° 14' 19.194449 s 71° 41' 11" w  
 h111111MHIMMOMIWIMIN  
 WIMMUMIUMMUMMIN

Scale: One Chain = Two Hundred Feet



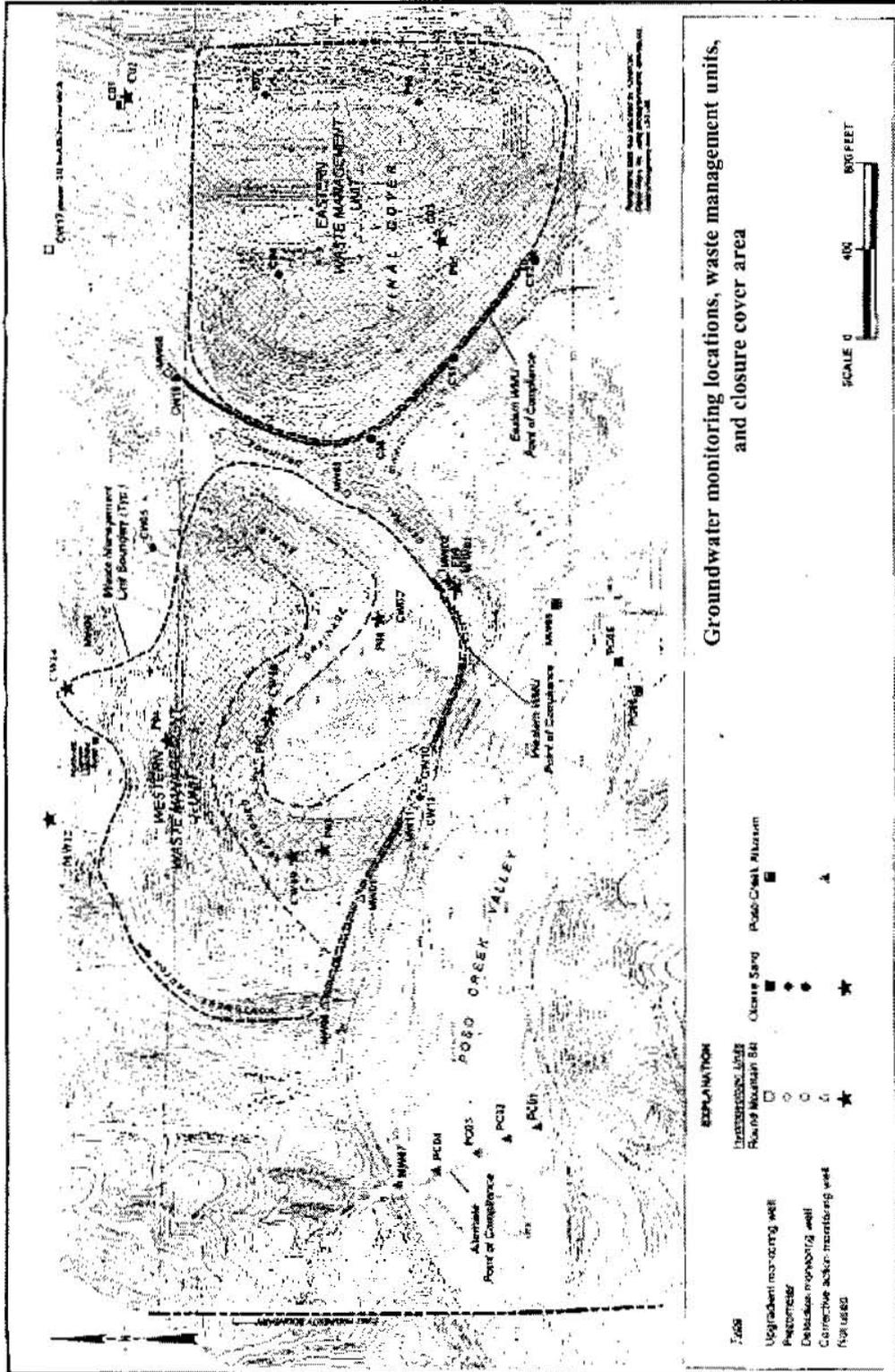
Recorder's Certificate  
 I, the undersigned, being a duly qualified and sworn Surveyor of the State of California, do hereby certify that the foregoing is a true and correct copy of the original Record of Survey as filed in my office on the 25th day of ... 19...

- Legend:
- 1 - Section Corner Points and adjacent to them
  - 2 - Section Corner Points, 1/4 Section Corners
  - 3 - 1/4 Section Corner Points and adjacent to them
  - 4 - Other Points
  - 5 - The Point of Beginning
  - 6 - The Point of Beginning, Book 5, Page 49
  - 7 - The Point of Beginning, Book 5, Page 49

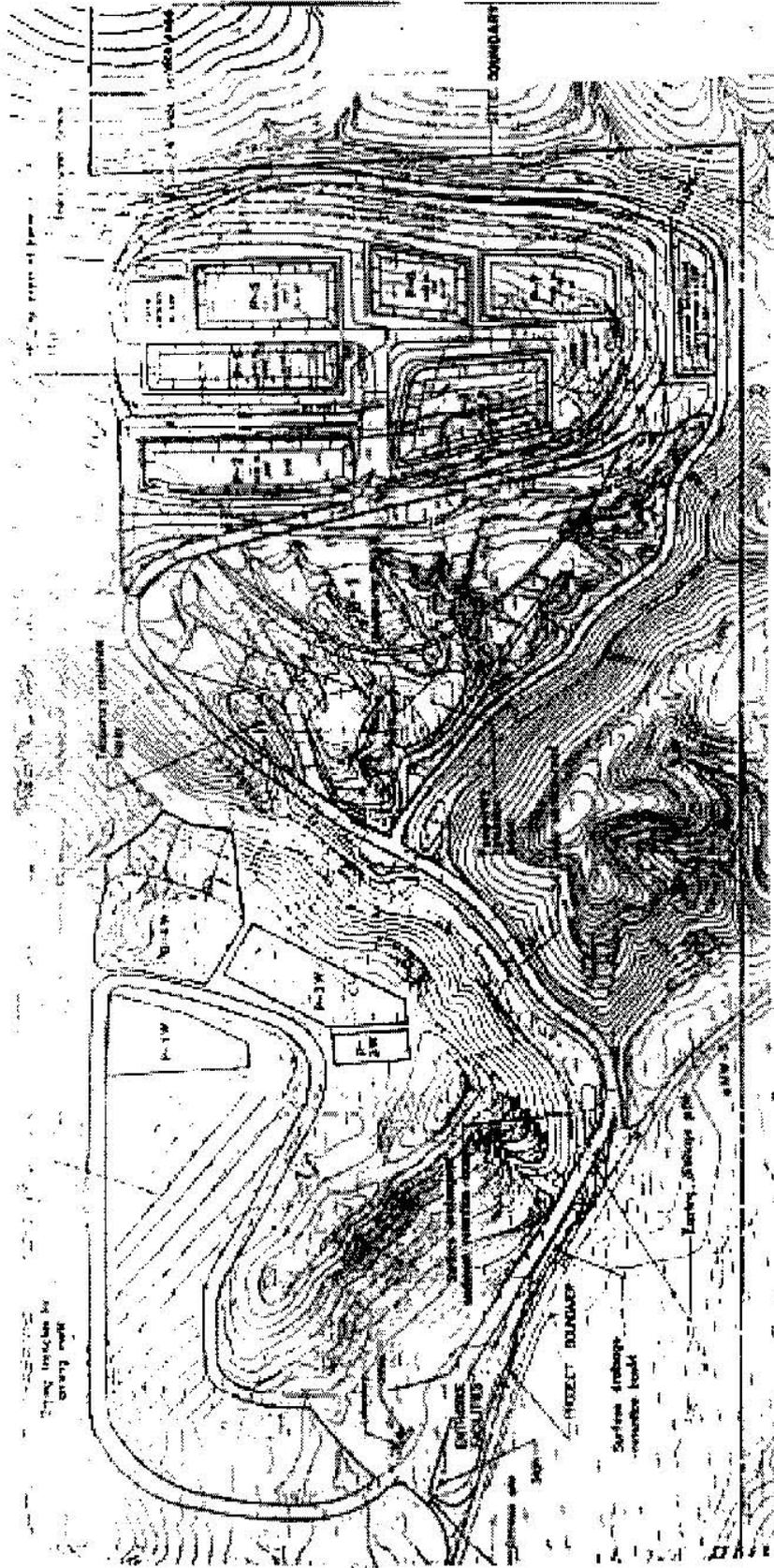


Attachment 2. Description of facility

[Approved Specific Water Quality Monitoring Plan]



Attachment 3. Groundwater monitoring locations, waste management units, and closure cover area



**Explanation**

- P - Points with surface Impoundments
- B - Boundaries

Attachment 4. Disposal units



**Attachment 5.** Leachate riser in EWMU



**Attachment 6.** Northwest Canyon Leachate Sump in WWMU

### CWM Bakersfield post-closure FR cost-estimate

<b>Groundwater monitoring</b>				
<b>Tasks</b>	<b>Cost per event</b>	<b>Total number of events</b>	<b>Annual cost-estimate</b>	<b>Total cost-estimate</b>
Task 1 – Quarterly elevation monitoring	\$770	60	\$1,540	\$46,200
Task 2 – Semiannual groundwater monitoring	\$8,380	60	\$16,760	\$502,800
Task 3 – Semiannual reporting	\$4,420	30	\$4,420	\$132,600
Task 3 – Annual reporting	\$4,940	30	\$4,940	\$148,200
Task 4 – Semiannual analysis	\$19,643	60	\$39,286	\$1,178,580
Task 5 – COC analysis	\$8,106	6	\$1,621	\$48,636
Task 6 – Appendix IX analysis			\$0	\$0
Task 7 – Well maintenance	\$5,000	30	\$5,000	\$150,000
<b>Totals</b>			<b>\$73,567</b>	<b>\$2,207,016</b>

<b>Leachate management and disposal</b>				
<b>Tasks – 44,000 gallons per year – average</b>	<b>Cost per event</b>	<b>Total number of events</b>	<b>Annual cost-estimate</b>	<b>Total cost-estimate</b>
Task 1 – Monthly monitoring	\$285	360	\$3,420	\$102,600
Task 2 – NWC waste transportation	\$870	270	\$7,830	\$234,900
Task 2 – LCRS waste transportation	\$870		\$0	\$0
Task 3 – NWC waste disposal – \$1.5 per gallon	\$7,500	270	\$67,500	\$2,025,000
Task 3 – LCRS waste disposal			\$0	\$0
Task 4 – NWC waste analysis	\$700	30	\$700	\$21,000
Task 4 – LCRS waste analysis	\$460	30	\$460	\$13,800
Task 5 – NWC equipment repair	\$1,000	30	\$1,000	\$30,000
Task 5 – LCRS equipment repair	\$500	30	\$500	\$15,000
<b>Totals</b>			<b>\$81,410</b>	<b>\$2,442,300</b>

<b>Inspections</b>				
<b>Tasks</b>	<b>Cost per event</b>	<b>Total number of events</b>	<b>Annual cost-estimate</b>	<b>Total cost-estimate</b>
Task 1 – Catastrophic Event Inspection	\$570	8	\$152	\$4,560
Task 2 – Monthly Cap Inspections	\$310	360	\$3,720	\$111,600
Task 3 – Independent 3rd party inspection	\$8,500	30	\$8,500	\$255,000
Task 4 – Annual surveying	\$5,000	30	\$5,000	\$150,000
<b>Totals</b>			<b>\$17,372</b>	<b>\$521,160</b>

<b>Facility maintenance</b>				
<b>Tasks</b>	<b>Cost per event</b>	<b>Total number of events</b>	<b>Annual cost-estimate</b>	<b>Total cost-estimate</b>
Task 1 – Annual facility maintenance Task 2 – Annual site utilities	\$15,000	30	\$15,000	\$450,000
<b>Totals</b>			<b>\$15,000</b>	<b>\$450,000</b>

<b>Agency costs</b>				
<b>Tasks</b>	<b>Cost per event</b>	<b>Total number of events</b>	<b>Annual cost-estimate</b>	<b>Total cost-estimate</b>
Task 1 – Hazardous waste facility fee Task 2 – WDR Fees	\$10,300 \$15,000	30 30-2	\$10,300 \$15,000	\$1,667
Task 3 – Permit renewal fee	\$25,000			\$309,000 \$450,000 \$50,000
<b>Totals</b>			<b>\$26,967</b>	<b>\$809,000</b>

<b>Administrative costs</b>				
<b>Tasks</b>	<b>Cost per event</b>	<b>Total number of events</b>	<b>Annual cost-estimate</b>	<b>Total cost-estimate</b>
Task 1 – Project manager – 5 PY Task 2 – Property taxes	\$50,000 \$12,000	30 30	\$50,000 \$12,000	\$1,500,000 \$360,000
<b>Totals</b>			<b>\$62,000</b>	<b>\$1,860,000</b>

<b>Summary of post-closure cost-estimate</b>		
<b>Category</b>	<b>Annual cost-estimate</b>	<b>Total cost-estimate</b>
Groundwater monitoring	\$73,567	\$2,207,016
Leachate management and disposal	\$81,410	\$2,442,300
Inspections	\$17,372	\$521,160
Facility maintenance	\$15,000	\$450,000
Agency costs	\$26,967	\$809,000
Administrative costs	\$62,000	\$1,860,000
<b>Sub-total</b>	<b>\$276,316</b>	<b>\$8,289,476</b>

Contingency 20%	\$55,263	\$828,948
<b>Totals</b>	<del>\$331,579</del>	<del>\$9,118,424</del>

~~Attachment 7. CWM Bakersfield Post-Closure Cost Estimate~~