



**Final
Post-Closure Permit Application**

**for the
Blue Hills Hazardous Waste
Disposal Site**

CAT080010606

July 2007

Prepared by:

**Department of Public Works and Planning
Resources Division
2220 Tulare St., 6th Floor
Fresno, CA 93721**

***Final
Post-Closure Permit Application***

***for the
Blue Hills Hazardous Waste
Disposal Site***

Part A

**RCRA Subtitle C Site Identification Form
and
Hazardous Waste Permit Information Form**

July 2007

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2220 Tulare St., 6th Floor
Fresno, CA 93721

<p>SEND COMPLETED FORM TO: The Appropriate State or EPA Regional Office.</p>	<p>United States Environmental Protection Agency</p> <p>RCRA SUBTITLE C SITE IDENTIFICATION FORM</p>		
<p>1. Reason for Submittal (See instructions on page 14.)</p> <p>MARK ALL BOX(ES) THAT APPLY</p>	<p>Reason for Submittal:</p> <p><input type="checkbox"/> To provide Initial Notification of Regulated Waste Activity (to obtain an EPA ID Number for hazardous waste, universal waste, or used oil activities)</p> <p><input checked="" type="checkbox"/> To provide Subsequent Notification of Regulated Waste Activity (to update site identification information)</p> <p><input type="checkbox"/> As a component of a First RCRA Hazardous Waste Part A Permit Application</p> <p><input type="checkbox"/> As a component of a Revised RCRA Hazardous Waste Part A Permit Application (Amendment # _____)</p> <p><input type="checkbox"/> As a component of the Hazardous Waste Report</p>		
<p>2. Site EPA ID Number (page 15)</p>	<p>EPA ID Number</p> <p style="text-align: center;"> C A T 0 8 0 0 1 0 6 0 6 </p>		
<p>3. Site Name (page 15)</p>	<p>Name:</p> <p style="text-align: center;">Blue Hills Hazardous Waste Disposal Site</p>		
<p>4. Site Location Information (page 15)</p>	<p>Street Address: N.E. 1/4 SEC 3, T. 19 S. R. 15 E. M. D. B. & M.</p>		
	<p>City, Town, or Village:</p>	<p>State: CA</p>	
	<p>County Name: Fresno</p>	<p>Zip Code:</p>	
<p>5. Site Land Type (page 15)</p>	<p>Site Land Type: <input type="checkbox"/> Private <input checked="" type="checkbox"/> County <input type="checkbox"/> District <input type="checkbox"/> Federal <input type="checkbox"/> Indian <input type="checkbox"/> Municipal <input type="checkbox"/> State <input type="checkbox"/> Other</p>		
<p>6. North American Industry Classification System (NAICS) Code(s) for the Site (page 15)</p>	<p>A.</p> <p style="text-align: center;"> 5 6 2 2 1 2 </p>	<p>B.</p> <p style="text-align: center;"> </p>	
	<p>C.</p> <p style="text-align: center;"> </p>	<p>D.</p> <p style="text-align: center;"> </p>	
<p>7. Site Mailing Address (page 16)</p>	<p>Street or P. O. Box: 2220 Tulare St., 6th Floor</p>		
	<p>City, Town, or Village: Fresno</p>		
	<p>State: CA</p>		
	<p>Country: USA</p>	<p>Zip Code: 93721</p>	
<p>8. Site Contact Person (page 16)</p>	<p>First Name: Marion</p>	<p>MI: L</p>	<p>Last Name: Miller</p>
	<p>Phone Number: (559) 262-4259 Extension:</p>		<p>Email address: mmiller2@co.fresno.ca.us</p>
<p>9. Operator and Legal Owner of the Site (pages 16 and 17)</p>	<p>A. Name of Site's Operator:</p> <p style="text-align: center;">Fresno County</p>		<p>Date Became Operator (mm/dd/yyyy):</p> <p style="text-align: center;">08/21/1973</p>
	<p>Operator Type: <input type="checkbox"/> Private <input checked="" type="checkbox"/> County <input type="checkbox"/> District <input type="checkbox"/> Federal <input type="checkbox"/> Indian <input type="checkbox"/> Municipal <input type="checkbox"/> State <input type="checkbox"/> Other</p>		
	<p>B. Name of Site's Legal Owner:</p> <p style="text-align: center;">Fresno County</p>		<p>Date Became Owner (mm/dd/yyyy):</p> <p style="text-align: center;">08/21/1973</p>
	<p>Owner Type: <input type="checkbox"/> Private <input checked="" type="checkbox"/> County <input type="checkbox"/> District <input type="checkbox"/> Federal <input type="checkbox"/> Indian <input type="checkbox"/> Municipal <input type="checkbox"/> State <input type="checkbox"/> Other</p>		

9. Legal Owner (Continued) Address	Street or P. O. Box: 2220 Tulare St., 6th Floor	
	City, Town, or Village: Fresno	
	State: CA	
	Country: USA	Zip Code: 93721

10. Type of Regulated Waste Activity NOT APPLICABLE/SITE CLOSED
 Mark "Yes" or "No" for all activities; complete any additional boxes as instructed. (See instructions on pages 18 to 21.)

A. Hazardous Waste Activities
 Complete all parts for 1 through 6.

Y N 1. Generator of Hazardous Waste
 If "Yes", choose only one of the following - a, b, or c.

a. LQG: Greater than 1,000 kg/mo (2,200 lbs./mo.) of non-acute hazardous waste; or

b. SQG: 100 to 1,000 kg/mo (220 - 2,200 lbs./mo.) of non-acute hazardous waste; or

c. CESQG: Less than 100 kg/mo (220 lbs./mo.) of non-acute hazardous waste

In addition, indicate other generator activities.

Y N d. United States Importer of Hazardous Waste

Y N e. Mixed Waste (hazardous and radioactive) Generator

Y N 2. Transporter of Hazardous Waste

Y N 3. Treater, Storer, or Disposer of Hazardous Waste (at your site) Note: A hazardous waste permit is required for this activity.

Y N 4. Recycler of Hazardous Waste (at your site)

Y N 5. Exempt Boiler and/or Industrial Furnace
 If "Yes", mark each that applies.

a. Small Quantity On-site Burner Exemption

b. Smelting, Melting, and Refining Furnace Exemption

Y N 6. Underground Injection Control

B. Universal Waste Activities

Y N 1. Large Quantity Handler of Universal Waste (accumulate 5,000 kg or more) [refer to your State regulations to determine what is regulated]. Indicate types of universal waste generated and/or accumulated at your site. If "Yes", mark all boxes that apply:

	<u>Generate</u>	<u>Accumulate</u>
a. Batteries	<input type="checkbox"/>	<input type="checkbox"/>
b. Pesticides	<input type="checkbox"/>	<input type="checkbox"/>
c. Thermostats	<input type="checkbox"/>	<input type="checkbox"/>
d. Lamps	<input type="checkbox"/>	<input type="checkbox"/>
e. Other (specify) _____	<input type="checkbox"/>	<input type="checkbox"/>
f. Other (specify) _____	<input type="checkbox"/>	<input type="checkbox"/>
g. Other (specify) _____	<input type="checkbox"/>	<input type="checkbox"/>

Y N 2. Destination Facility for Universal Waste
 Note: A hazardous waste permit may be required for this activity.

C. Used Oil Activities
 Mark all boxes that apply.

Y N 1. Used Oil Transporter
 If "Yes", mark each that applies.

a. Transporter

b. Transfer Facility

Y N 2. Used Oil Processor and/or Re-refiner
 If "Yes", mark each that applies.

a. Processor

b. Re-refiner

Y N 3. Off-Specification Used Oil Burner

Y N 4. Used Oil Fuel Marketer
 If "Yes", mark each that applies.

a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner

b. Marketer Who First Claims the Used Oil Meets the Specifications

United States Environmental Protection Agency
HAZARDOUS WASTE PERMIT INFORMATION FORM

1. Facility Permit Contact (See instructions on page 23)	First Name: Marion	MI: L	Last Name: Miller
	Phone Number: (559) 262-4259		Phone Number Extension:
2. Facility Permit Contact Mailing Address (See instructions on page 23)	Street or P.O. Box: 2220 Tulare St., 6th Floor		
	City, Town, or Village: Fresno		
	State: CA		
	Country: USA	Zip Code: 93721	
3. Operator Mailing Address and Telephone Number (See instructions on page 23)	Street or P.O. Box: 2220 Tulare St., 6th Floor		
	City, Town, or Village: Fresno		
	State: CA		
	Country: USA	Zip Code: 93721	Phone Number (559) 262-4259
4. Legal Owner Mailing Address and Telephone Number (See instructions on page 23)	Street or P.O. Box: 2220 Tulare St., 6th Floor		
	City, Town, or Village: Fresno		
	State: CA		
	Country: USA	Zip Code: 93721	Phone Number (559) 262-4259
5. Facility Existence Date (See instructions on page 24)	Facility Existence Date (mm/dd/yyyy): 8-21-73		
6. Other Environmental Permits (See instructions on page 24)			
A. Permit Type (Enter code)	B. Permit Number		C. Description
R			Post-Closure Permit
E	9	9 - 0 8 7	Waste Discharge Requiements (California Regional Water Quality Control Board)
7. Nature of Business (Provide a brief description; see instructions on page 24)			
Closed Landfill Site			

Process Codes and Design Capacities (See instructions on page 24) - Enter information in the Sections on Form Page 3.

A. PROCESS CODE - Enter the code from the list of process codes in the table below that best describes each process to be used at the facility. Fifteen lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. For "other" processes (i.e., D99, S99, T04 and X99), enter the process information in Item 9 (including a description).

B. PROCESS DESIGN CAPACITY - For each code entered in Section A, enter the capacity of the process.

- 1. AMOUNT** - Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process.
- 2. UNIT OF MEASURE** - For each amount entered in Section B(1), enter the code in Section B(2) from the list of unit of measure codes below that describes the unit of measure used. Select only from the units of measure in this list.

C. PROCESS TOTAL NUMBER OF UNITS - Enter the total number of units for each corresponding process code.

PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
	<u>Disposal:</u>			<u>Treatment (continued):</u>	
D79	Underground Injection Well Disposal	Gallons; Liters; Gallons Per Day; or Liters Per Day	T81	Cement Kiln	For T81-T93:
D80	Landfill	Acre-feet; Hectare-meter; Acres; Cubic Meters; Hectares; Cubic Yards	T82	Lime Kiln	
D81	Land Treatment	Acres or Hectares	T83	Aggregate Kiln	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; or Million Btu Per Hour
D82	Ocean Disposal	Gallons Per Day or Liters Per Day	T84	Phosphate Kiln	
D83	Surface Impoundment Disposal	Gallons; Liters; Cubic Meters; or Cubic Yards	T85	Coke Oven	
D99	Other Disposal	Any Unit of Measure in Code Table Below	T86	Blast Furnace	
	<u>Storage:</u>		T87	Smelting, Melting, or Refining Furnace	
S01	Container	Gallons; Liters; Cubic Meters; or Cubic Yards	T88	Titanium Dioxide Chloride Oxidation Reactor	
S02	Tank Storage	Gallons; Liters; Cubic Meters; or Cubic Yards	T89	Methane Reforming Furnace	
S03	Waste Pile	Cubic Yards or Cubic Meters	T90	Pulping Liquor Recovery Furnace	
4	Surface Impoundment Storage	Gallons; Liters; Cubic Meters; or Cubic Yards	T91	Combustion Device Used In The Recovery Of Sulfur Values From Spent Sulfuric Acid	
S05	Drip Pad	Gallons; Liters; Acres; Cubic Meters; Hectares; or Cubic Yards	T92	Halogen Acid Furnaces	
S06	Containment Building Storage	Cubic Yards or Cubic Meters	T93	Other Industrial Furnaces Listed In 40 CFR §260.10	
S99	Other Storage	Any Unit of Measure in Code Table Below	T94	Containment Building - Treatment	Cubic Yards; Cubic Meters; Short Tons Per Hour; Gallons Per Hour; Liters Per Hour; Btu Per Hour; Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Metric Tons Per Day; Gallons Per Day; Liters Per Day; Metric Tons Per Hour; or Million Btu Per Hour
	<u>Treatment:</u>			<u>Miscellaneous (Subpart X):</u>	
T01	Tank Treatment	Gallons Per Day; Liters Per Day	X01	Open Burning/Open Defonation	Any Unit of Measure in Code Table Below
T02	Surface Impoundment Treatment	Gallons Per Day; Liters Per Day	X02	Mechanical Processing	Short Tons Per Hour; Metric Tons Per Hour; Short Tons Per Day; Metric Tons Per Day; Pounds Per Hour; Kilograms Per Hour; Gallons Per Hour; Liters Per Hour; or Gallons Per Day
T03	Incinerator	Short Tons Per Hour; Metric Tons Per Hour; Gallons Per Hour; Liters Per Hour; Btu Per Hour; Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Gallons Per Day; Liters Per Day; Metric Tons Per Hour; or Million Btu Per Hour	X03	Thermal Unit	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; or Million Btu Per Hour
T04	Other Treatment	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; Gallons Per Day; Liters Per Hour; or Million Btu Per Hour	X04	Geologic Repository	Cubic Yards; Cubic Meters; Acre-feet; Hectare-meter; Gallons; or Liters
T80	Boiler	Gallons; Liters; Gallons Per Hour; Liters Per Hour; Btu Per Hour; or Million Btu Per Hour	X99	Other Subpart X	Any Unit of Measure Listed Below

UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
Gallons.....	G	Short Tons Per Hour.....	D	Cubic Yards.....	Y
Gallons Per Hour.....	E	Metric Tons Per Hour.....	W	Cubic Meters.....	C
Gallons Per Day.....	U	Short Tons Per Day.....	N	Acres.....	B
Liters.....	L	Metric Tons Per Day.....	S	Acre-feet.....	A
Liters Per Hour.....	H	Pounds Per Hour.....	J	Hectares.....	Q
Liters Per Day.....	V	Kilograms Per Hour.....	R	Hectare-meter.....	F
		Million Btu Per Hour.....	X	Btu Per Hour.....	I

10. Description of Hazardous Wastes (See instructions on page 25) - Enter information in the Sections on Form Page 5.

- A. EPA HAZARDOUS WASTE NUMBER - Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR Part 261, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in Section A, estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in Section A, estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE - For each quantity entered in Section B, enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure, taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in Section A, select the code(s) from the list of process codes contained in Items 8A and 9A on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the listed hazardous wastes.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in Section A, select the code(s) from the list of process codes contained in Items 8A and 9A on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

1. Enter the first two as described above.
2. Enter "000" in the extreme right box of Item 10.D(1).
3. Use additional sheet, enter line number from previous sheet, and enter additional code(s) in Item 10.E.

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in Item 10.D(2) or in Item 10.E(2).

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in Section A. On the same line complete Sections B, C and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In Section A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In Section D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING Item 10 (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operations. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line Number	A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	D. PROCESSES														
	(1) PROCESS CODES (Enter code)						(2) PROCESS DESCRIPTION- (If a code is not entered in D(1))														
X 1	K	0	5	4	900	P	T	0	3	D	8	0									
X 2	D	0	0	2	400	P	T	0	3	D	8	0									
X 3	D	0	0	1	100	P	T	0	3	D	8	0									
X 4	D	0	0	2																	Included With Above

10. Description of Hazardous Wastes (Continued. Use the Additional Sheet(s) as necessary; number pages as 5 a, etc.)							NOT APPLICABLE	
Line Number	A. EPA Hazardous Waste No. (Enter code)	B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	D. PROCESSES				SITE CLOSED
				(1) PROCESS CODES (Enter code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1								
2								
3								
4								
5								
6								
7								
8								
9								
1 0								
1 1								
1 2								
1 3								
1 4								
1 5								
1 6								
1 7								
1 8								
9								
2 0								
2 1								
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3 5								
3 6								
3 7								
3 8								
3 9								



***Final
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***for the
Blue Hills Hazardous Waste
Disposal Site***

Part B

CAT080010606

July 2007

Prepared by:

Department of Public Works and Planning
Resources Division
2220 Tulare St., 6th Floor
Fresno, CA 93721

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Introduction

1.1 Purpose

The County of Fresno, Department of Public Works and Planning, Resources Division (hereafter called "Site Owner") is submitting this *Part B Post-Closure Permit Application for the Blue Hills Disposal Site* to comply with Title 22 of the California Code of Regulations (22 CCR), section 66270.1(c) and other requirements, as requested in the three-part Notice of Deficiency (NOD), dated January 20, 2006, from Peter Bailey, P.G., Engineering Geologist, Northern California Permitting and Corrective Action Branch, Hazardous Waste Management Program, Department of Toxic Substances Control (DTSC).

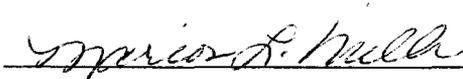
1.2 Document Organization

This *Part B Post-Closure Permit Application* is organized according to the requirements for post-closure permit applications set forth in 22 CCR, Chapter 20. The sequence of the chapters is based upon the numerical order of these regulations in 22 CCR. For ease of review, reference is made in the text to the applicable regulations as appropriate. A Post-Closure Permit Application Checklist is provided in Appendix A.

2 Application Certification [22 CCR 66270.11]

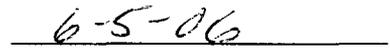
The following certification and signature are presented to satisfy the requirements of 22 CCR 66270.11(a)(3)(B) and 66270.11(d).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Marion L. Miller

Resources Manager
Department of Public Works & Planning



Date

3 General Facility Description [22 CCR 66270.14(b)(1), 66270.14(b)(13), and 66264.118(b)(3)]

3.1 Location

The Blue Hills Disposal Site (Facility) is situated at the head of a minor gully in the gently rolling hillsides of southwestern Fresno County. The Facility is located approximately nine miles northeast of the City of Coalinga, one mile west of Coalinga-Mendota Road (or Derrick Ave.) and approximately two miles north of the intersection of Highway 33 with the Coalinga-Mendota Road (Figure 1). The Facility is situated on the western flank of the Blue Hills within the northern boundary of the Coalinga oil field, on the eastern slope of the Coast Range Mountains, and in the Juniper Ridge Hydrologic Area (559.20; Figure 2). The northwesterly trending Etchegoin Formation of Pliocene age directly underlies the site. The Facility is accessed along an approximately 0.9 mile long, private light-duty, road which extends from Coalinga-Mendota Road (Figure 3). The Facility site is in the northeastern quarter of Section 3, Township 19 South, Range 15 East, Mount Diablo Base and Meridian; the site covers 32 acres of which approximately 4.5 acres were used for waste disposal. The County of Fresno Tax Assessor parcel number (APN) for the site is 058-180-32ST. The Facility falls within Congressional District 20 and Senate District 16.

3.2 Facility History

The Facility was established by Fresno County in 1973 as a limited Class I solid waste disposal facility in response to state and agricultural interest requests to provide a safe repository for empty herbicide and pesticide containers generated by the agricultural community. After considering several sites, the final location of the Facility was recommended by the State of California. The site was selected based on input from federal, state and private geologists familiar with the area.

The waste management area (WMA) at the Facility is comprised of four clustered waste management units (WMUs): 1) the First Main Trench (WMU-1), opened in November 1973 and closed in November 1975; 2) the Second Main Trench (WMU-2), opened in April 1976 and closed in November 1980; and 3) the Third Main Trench (WMU-3), opened in April 1981 and closed in October 1991; and 4) the Dust and Powder area (WMU-4), which closed in 1982. WMU-1, WMU-2, and WMU-3 have been conservatively estimated to have been no more than 25 feet deep. WMU-4 was a shallow excavation.

The site was opened for four weeks each year, two weeks in spring and two weeks in autumn since 1983. However, at the prompting of the County Agricultural Commissioner, the USEPA, and the State of California, the site was occasionally opened to receive special wastes. For example, at the request of the USEPA, over 3 tons of toxic waste generated by the Federal Government was disposed at the site in 1974 from the Territory of Guam. Additionally, the State of California used the site to deposit chemical spill material resulting from highway accidents.

Although disposal of other materials occurred sporadically, the bulk of the materials disposed of at the site consisted essentially of empty pesticide containers. No significant amounts of organic waste were deposited at the Facility.

As a result of major changes in regulatory requirements in 1982, disposal activities in WMU-1, WMU-2, and WMU-4 were terminated. By the spring of 1983 only non-hazardous, triple-rinsed pesticide containers were accepted by Site Owner for placement in WMU-3. However, in the spring of 1991, the Site Owner decided not to pursue a Class III permit for the remaining WMU-3, and to close the entire site instead. Thus, the disposal of all waste ceased at the Facility in the fall of 1991. Construction of an approved engineered final cover over the four WMUs was started in September 1992 and was completed in December 1992.

The Facility was originally operated as a Class I disposal site in accordance with Waste Discharge Requirements (WDRs) Order No. 73-58, adopted on August 25, 1972 [22 CCR 66264.92, 66264.93, 66264.94, 66264.95, 66264.701 (b) et. seq.]. On 28 September 1990, the California Regional Water Quality Control Board, Central Valley Region (RWQCB) adopted Order No. 90-254, which prescribed WDRs for closure of the existing waste management units. Subsequent WDRs were Order No. 93-200 (adopted by RWQCB in 1993), and the current Order 99-087 (adopted on 11 June 1999) for post-closure maintenance of the Facility.

3.3 Physical Description of the Facility

The Facility is located on the eastern slopes of the California Coast Range Mountains. Elevations at the site vary from a high of 980 feet above mean sea level (MSL) along the western boundary to a low of approximately 820 feet above MSL at the eastern site boundary (Figure 4). The topography of the site varies from gentle to steep hillside slopes, with gullies draining toward the northeast. The average slope at the site is approximately 12 percent.

The 32 acre closed Facility is protected from unauthorized entry by a perimeter fence and locked gates. The WMUs are protected by an approved final cover (Photo 1) and drainage system.

A total of 16 groundwater monitoring wells are located down-gradient of the WMA, eight of which are part of the detection monitoring well network [22 CCR 66264.91 (b)] (Drawing 2, Photo 2). Lined drainage ditches are systematically located on site, to direct surface water away from and around the WMA.

The surrounding land use is limited to oil and gas production and livestock grazing (Figure 1).

3.4 Wastes Received at the Facility

Dry pesticides, in dust and powder form, were disposed of and covered with soil in the Dust and Powder Area. Empty pesticide containers (some containing a

residue in liquid or powder form) were disposed of in WMU-1, WMU-2, and WMU-3, where they were crushed and covered with soil.

Between 1973 and 1982, the Facility was used primarily for the disposal of empty and partially empty herbicide and pesticide containers with some residue in liquid and powder forms. In addition, an undocumented amount of liquid wastes in drums, highway spill wastes, wastes from the California Department of Forestry, and wastes from other state and federal agencies were also accepted.

In the spring of 1982, WMU-3 received uncertified dry, empty pesticide containers.

From spring 1983 to fall 1991, the Facility accepted only certified triple-rinsed, dry pesticide containers for disposal into WMU-3.

3.5 Contact Person for the Post-Closure Care Period

During the post-closure period, the party responsible for the closed property and all post-closure activities is currently:

The Resources Manager (Marion L. Miller)
County of Fresno, Department of Public Works and Planning
Resources Division
2220 Tulare Street, Sixth Floor
Fresno, CA 93721
Phone: (559) 262-4259

4 Post-Closure Notices [22 CCR 66264.119]

The required notices have been filed pursuant to 22 CCR 66264.119 and are described in Section 5 of the Postclosure Maintenance Plan, Blue Hills Disposal Site, dated February 28, 1997 (EMCON Associates). These notices are also summarized below:

Pursuant to 22CCR 66264.119(b)(1)(A) and (B), a recordation for use restrictions ("Land Use Covenant") on the Property was recorded in the Fresno County official records on *[Insert date of recording]* by Fresno County. The record of location of the Facility is included on Drawings 1, 2, and 3.

5 Compliance with Other Federal Laws [22 CCR 66270.3]

5.1 Introduction

Pursuant to 22 CCR 66270.3, the Facility must comply with the Wild and Scenic Rivers Act, National Historic Preservation Act of 1996, Endangered Species Act, Coastal Zone Management Act, and the Fish and Wildlife Coordination Act. Compliance with each of these acts is discussed below.

5.2 Wild and Scenic Rivers

The Wild and Scenic Rivers Act does not apply to the post-closure permit for the Blue Hills Disposal Site, because the Facility is not located near any of the California rivers designated in the Wild and Scenic Rivers Act. The closest listed river is the Kings River, which is more than 20 miles from the site. The distance between the site and the Kings River eliminates the potential for direct or adverse effects on the values for which this river was listed as a national wild and scenic river.

5.3 National Historic Preservation Act

The National Historic Preservation Act does not apply to the post-closure permit for the Blue Hills Disposal Site, because the permit would not affect properties listed in the National Register of Historic Places.

5.4 Endangered Species Act

The federal Endangered Species Act directs all federal agencies and departments to use their authority to conserve endangered and threatened species. The post-closure permit for the Facility would not result in the killing, harming, or harassing of an endangered or threatened species. A search of the California Natural Diversity Database, maintained by the California Department of Fish and Game, identified two sensitive species which exist in the area of the Facility (Domengine Ranch Quad):

- Blunt-nosed leopard lizard (*Gambelia silus*)
- San Joaquin woollythreads (*Lembertia congdonii*)

The blunt-nosed leopard lizard is a federally listed endangered species (U.S. Fish and Wildlife Service), and the San Joaquin woollythreads is a federal species of concern. The blunt-nosed leopard lizard is also a state-listed endangered species (California Department of Fish and Game).

Since the final closure cap construction was completed in December 1992, the potential for the residual wastes at the Facility to adversely impact protected species is believed to be minimal. The greatest threat to these species is habitat loss, mostly from conversion of land to agricultural, grazing, or oil development uses. The post-closure permit for the Facility would not jeopardize the continued existence of these species or adversely affect their critical habitat.

5.5 Coastal Zone Management Act

The Coastal Zone Management Act does not apply to the Facility because the Facility is over 60 miles from the California coast and has no potential to affect land or water use in the coastal zone.

5.6 Fish and Wildlife Coordination Act

The fish and Wildlife Coordination Act does not apply to the post-closure permit for the Facility because no modification of any body of water is proposed.

6 Facility Description

6.1 Facility Location [22 CCR 66270.14(b)(11)]

As described in Section 3.1 and shown in Figure 4, the Facility is located within the northern boundary of the Coalinga oil field, on the eastern slope of the Coast Range Mountains, and in the Juniper Ridge Hydrologic Area.

6.2 Topographic Map [22 CCR 66270.14(b)(18) and 66270.14(c)(13)]

Pursuant to 22 CCR 66270.14(b)(18) and 66270.14(c)(13), topographic maps of the Facility are included as Figure 4 and Drawings 1, 2, and 3. Drawings 2 and 3 include the features listed below, except where the features are shown on a different map, as noted:

- Scale of 1 inch equal to not more than 200 feet;
- Contours sufficient to show surface water flow around the Facility;
- Date of survey;
- Contour interval of 10 feet (major) and 2 feet (minor);
- Area including 2,000 feet surrounding the site (Drawing 3);
- 100-year flood plain area (Figure 6);
- Surface waters including intermittent streams or drainage (Figure 4);
- Surrounding land uses (Figure 1);
- Wind Rose (Fresno Air Terminal-closest available) (Figure 7);
- Map orientation;
- Legal boundaries of the Facility (Drawing 1);
- Access control (Figure 3);
- Access and internal roads;
- Facility structures (none);
- Sewers (none);
- Flood control or drainage barriers;
- Run-on and run-off control systems;

- Operational areas (none);
- Waste management areas;
- Point of compliance and groundwater monitoring wells.

6.3 Floodplain Information [22 CCR 66264.18(b) and 66270.14(b)(11)]

Floodplain information is required by 22 CCR 66264.18(b) and 66270.14(b)(11). In accordance with WDR Order No. 99-087 and also considering the location of the site being in a hilly area, the Facility is not identified as being in a 100-year floodplain (Figures 5 & 6).

7 Closure Plan and Report [22 CCR 66270.14(b)(13)]

7.1 Closure Plan

The documents related to the preparation, implementation, and completion of closure include the following:

- 1) Closure and Postclosure Plan, Blue Hills Disposal Site, Fresno County, California, prepared by EMCON Associates, dated June 1988, and revised October 1988.
- 2) Closure and Postclosure Plan, Blue Hills Disposal Site, Revision 5, prepared by EMCON Associates, dated October 31, 1991.
- 3) Clay Borrow Source Investigation, American Avenue Disposal Site – Expansion Phase II, prepared by EMCON Associates, dated January 21, 1992.
- 4) Specifications, Blue Hills Disposal Facility, Final Cover, prepared by County of Fresno and EMCON Associates, dated May 5, 1992.
- 5) Closure Construction Report (Final Cover Placement), Blue Hills Disposal Facility, Fresno County, California, prepared by EMCON Associates, dated June 1993.

The reports mentioned above provide detailed information relevant to the closure, post-closure, design and construction of the final cover for the site, and are available for review at:

County of Fresno, Department of Public Works and Planning
 Resources Division
 2220 Tulare Street, Sixth Floor
 Fresno, CA 93721
 Phone: (559) 262-4259

7.2 Certification of Closure

The Facility Closure Certification is represented by the Closure Construction Report, which was submitted to DTSC, the RWQCB, and the USEPA in July, 1993 certifying that the closure construction was completed in accordance with the approved closure plan. The closure certification is listed on EPA's Annual Work Plan tracking as letter dated July 6, 1993. The closure certification inspection of the Blue Hills Disposal Site was performed by DTSC on April 21, 2005. Final Cover Certification for the Blue Hills [Landfill] was accepted by DTSC in a letter dated June 2, 2005 (Appendix C).

8 Post-Closure Plan [22 CCR 66270.14(b)(13) and 66264.118]

8.1 Written Plan

The Postclosure Maintenance Plan, Blue Hills Disposal Site, dated February 28, 1997, was prepared by EMCON Associates as a separate document. The Plan describes the procedures and requirements for monitoring, inspecting, maintenance, reporting and record keeping to be carried on after closure, until the end of the compliance period is reached [22 CCR 66264.96].

A copy of the Postclosure Maintenance Plan will be kept at the Site Owner's office in Fresno during the remainder of the post-closure period, as required by 22 CCR 66264.118(c). The following person will be responsible for storing and updating the Postclosure Maintenance Plan:

Resources Manager (currently Marion L. Miller)
County of Fresno, Department of Public Works and Planning
Resources Division
2220 Tulare Street, Sixth Floor
Fresno, CA 93721
Phone: (559) 262-4259

8.2 Monitoring Activities [22 CCR 66264.118(b)(1)]

Post-closure monitoring activities, including groundwater, leachate, and air monitoring are discussed in Section 3 of the Postclosure Maintenance Plan.

8.3 Maintenance Activities [22 CCR 66264.118(b)(2)]

Post-closure inspection and maintenance activities are discussed in Section 4 of the Postclosure Maintenance Plan.

8.4 Post-Closure Contact [22 CCR 66264.118(b)(3)]

The contact office for the Facility during the post-closure care period is as follows:

Resources Manager (currently Marion L. Miller)

County of Fresno, Department of Public Works and Planning
Resources Division
2220 Tulare Street, Sixth Floor
Fresno, CA 93721
Phone: (559) 262-4259

8.5 Amendment of Plan [22 CCR 66264.118(d)]

If the Site Owner wishes to amend the approved site post-closure maintenance plan cited in Section 8.1 above, the Site Owner will submit written notification of or request for a permit modification, as specified in 22 CCR 66264.118(d).

9 Security

9.1 Security Requirements [22 CCR 66264.14 and 66270.14(b)(4)]

A description of the site security procedures and equipment is described in Section 4.6 of the Postclosure Maintenance Plan.

9.2 Emergency Preparedness

The [Contingency Plan and] Emergency Procedures are discussed in Section 9.3 and in the Postclosure Maintenance Plan (Section 4.9 and Appendix G).

9.2.1 Emergency Equipment [22 CCR 66270.14(a) and (b)]

Emergency equipment, such as portable fire extinguishers, fire control equipment, spill control equipment, and decontamination equipment are not necessary during the post-closure care period because there are no personnel within the fenced, closed disposal areas of the Facility except during sampling and site inspections.

9.2.2 Water and Fire Control [22 CCR 66264.32(c) and (d)]

The Site Owner will immediately notify the proper agencies of any on-site fires, as described in Section 2.2.3 of Appendix G in the Postclosure Maintenance Plan. The following text is to be added to Section 2.2.3 of Appendix G in the Postclosure Maintenance Plan:

Post Fire Erosion Control. This work shall consist of performing erosion control and other work necessary to stabilize soils in the burned area until vegetation can be re-established.

If post fire inspection reveals past erosion, the affected areas shall be repaired with on-site soils in order to bring surface back to design grade. If necessary, a soil amendment of a wood or bark product treated to absorb water quickly shall be distributed over the burned area.

Straw shall be spread uniformly in the burned area to protect the soil surface. Straw shall be wheat, rice or barley. Hay bales, hay waddles and silt fencing shall be used as necessary to prevent the down slope movement of soils.

If natural vegetation does not re-establish itself over the succeeding season, consideration shall be given to hydro-seeding the impacted area. Hydro-seeding shall consist of mixing and applying seed, commercial fertilizer, stabilizing emulsion and other materials or any combination thereof with fiber and water.

9.2.3 Testing and Maintenance of Equipment [22 CCR 66264.33]

As discussed in Section 9.2.1 above, on-site emergency equipment is unnecessary during the post-closure period. Therefore, there will be no need for on-site testing and maintenance of equipment.

9.2.4 Arrangements with Emergency Agencies [22 CCR 66264.37]

The Emergency Response Plan and Points of Contact are described in the Appendix G of the Postclosure Maintenance Plan, Sections 2 and 3 respectively.

9.3 Contingency Plan [22 CCR 66270.14(b)(7)]

9.3.1 Introduction

The Contingency Plan ([and Emergency Procedures] discussed in Appendix G of the Postclosure Maintenance Plan) is intended to assist personnel in responding to unusual and unexpected incidents at the Facility during the post-closure period. The plan is intended to meet the regulatory requirements set forth in 22 CCR, Article 4 (Sections 66264.50-66264.56) and 22 CCR 66270.14 (b)(7).

The plan might need to be updated occasionally to reflect the following changes:

- Procedures derived from hands-on experience with the plan during actual incidents, if any.
- Changes in key personnel.
- Promulgation of new regulations.

Changes in the Contingency Plan will be submitted to the appropriate regulatory agencies following the procedure described in Section 9.3.2 below.

9.3.2 Procedures to Update Contingency Plan

It might be necessary to update the Contingency Plan during the post-closure care period. Changes would be made as a result of those instances listed in 22 CCR 66264.54. The following provisions will be observed when amending or changing the Contingency Plan:

- Changes will be made in accordance with local, state, and federal guidelines.
- Changes will be made by the Resources Manager (currently Marion L. Miller), his/her authorized representative, or his/her successor.
- Changes will be printed with the entire page of text on which they occur.
- The revised page(s) will be placed in the Plan in the appropriate order.
- Copies of the revised pages will be distributed to and reviewed with the applicable regulatory agencies and emergency responders.

10 Financial Responsibility

10.1 Post-Closure Cost [22 CCR 66270.14(b)(16)]

Post-closure costs are estimated as required by 22 CCR 66264.144 and 22 CCR 66264.15. Post-closure care of the site will consist of inspections and physical maintenance to identify and correct deterioration that might lead to a threat to human health or the environment. Post-closure activities will follow the requirements of the Postclosure Maintenance Plan as described in Sections 8 and 11.2 of this application.

The post-closure cost estimate worksheets for the Facility, with backup calculations, are contained in Appendix E.

10.2 Financial Assurance [22 CCR 66270.14(b)(16)]

Since the Site Owner retains responsibility for post-closure maintenance of the Facility, the financial test for liability was chosen to fund post-closure care under 22 CCR 66264.143 (Appendix B). Financial Assurance for Postclosure Care is described in Section 8 of the Postclosure Maintenance Plan. Pursuant to 22 CCR 66270.14(b)(16), a copy of the documentation required to demonstrate financial assurance under 22 CCR 66264.15 is contained in Appendix H of the Postclosure Maintenance Plan.

11 Inspection and Maintenance [22 CCR 66264.301, 66264.309, 66264.310, and 66270.21(a) and (b)]

11.1 Closure Structures

11.1.1 Wastes Received at the Facility [22 CCR 66270.21(a) and 66264.309]

As discussed in Section 3.4 of this application, the wastes received at the Facility consisted mainly of dry pesticides (in dust and powder form) and empty pesticide containers (some containing a residue in liquid or powder form) (Table 1).

Between 1973 and 1982, the Facility was used primarily for the disposal of empty and partially empty herbicide and pesticide containers with some residue in liquid and powder forms. In addition, an undocumented amount of liquid wastes in drums, highway spill wastes, wastes from the California Department of Forestry, and wastes from other state and federal agencies were also accepted.

In 1974, at the request of the USEPA, the Facility received over 3 tons of toxic waste generated by the Federal Government from the Territory of Guam.

From spring 1983 to fall 1991, the Facility accepted only certified triple-rinsed, dry pesticide containers.

For the period of 1973 to 1984, the Site Owner records indicate that an estimated 30,000 cubic yards of bulk solid waste was disposed at the Facility.

11.1.2 Closure Structures and Maintenance [22 CCR 66264.301, 66264.310 and 66270.21(b)]

An engineered final cover over the WMA was completed in December 1992 and certification was accepted by DTSC in June, 2005. The constructed final cover components were designed to promote drainage off the WMA, minimize erosion and abrasion, and function with minimal maintenance (Section 4.3 of the Postclosure Maintenance Plan).

Pursuant to 22 CCR 66264.250(c), surface water monitoring is not required at the Facility since the WMA is protected from surface water run-on and runoff by the nature of the site closure (cover) design. DTSC can exempt sites from required surface water monitoring, if the site design provides protection so that neither runoff nor leachate is generated (Section 3.4 of the Postclosure Maintenance Plan).

The final drainage system consists of all facilities that control water flow from areas on or adjacent to the disposal site and includes design features to divert sheet flow runoff from the WMA into perimeter drainage channels. These features include

diversionary structures, energy dissipators, and slope protection and control measures.

11.2 Post-Closure Inspection and Maintenance [22 CCR 66270.14(a)(5)]

11.2.1 Inspection Schedule

The post-closure inspection and maintenance program is described in Section 4 of the Postclosure Maintenance Plan. Sections 4.1 and 4.4.2 of the plan discuss the post-closure inspection frequency [22 CCR 66270.14 (b) (5)] (Appendix D).

11.2.2 Facility Inspections

The Site Owner began post-closure inspections at the Facility in 1993. The Postclosure Maintenance Plan states that the following items will be routinely inspected and maintained during the post-closure period:

- Final cover integrity and slope stability, as well as fill subsidence and settlement;
- Run-on and runoff control system;
- Groundwater monitoring system;
- Survey bench marks;
- Security system.

The routine inspections are conducted by Site Owner's trained staff or qualified contractors familiar with the Postclosure Maintenance Plan and the applicable regulations.

The annual inspections will be conducted by a qualified, independent engineer, registered in the State of California, to evaluate and document the condition of all surface improvements, drainage facilities, erosion control features, final cover, security, and monitoring facilities. The engineer will also document any evidence of surface water or leachate flowing from the Facility.

11.2.3 Annual Inspection Report

The inspecting engineer will prepare the annual report upon completion of the annual inspection. Inspections will typically occur in the spring, to allow review of any significant storm related damages. The Site Owner will submit the inspector's report to DTSC and RWQCB within 30 days of receipt from the independent contractor, as stated in the Postclosure Maintenance Plan.

11.2.4 Response to Need for Remedial Action [22 CCR 66264.15(c)]

In the event that the inspectors discover a situation requiring response, the appropriate control measures and remedial actions will be taken. The remedial actions are discussed beginning with Section 4.3 of the Postclosure and Maintenance Plan.

12 Seismic Requirements [22 CCR 66270.14(b)(11)(A) and 66264.228]

There are no known Holocene faults within 200 feet of the Facility. The maximum probable earthquake for the San Andreas Fault (about 20 miles southwest of the site) is a magnitude 8.3 on the Richter scale. The Coast-Range Fault System (in the vicinity of the site) can produce an earthquake of magnitude 6.5 on the Richter scale. The exact location of the Coast Range Fault System is unknown as displacement has generally occurred at great depth. A full scale facility inspection will be immediately scheduled following an earthquake having a magnitude equal to or greater than 5.5 (Richter scale) earthquake with an epicenter within 100 miles of the facility.

13 Corrective Action [22 CCR 66270.14(d)(1)(A)]

The NOD for the Post-Closure permit application identifies the need to transition site monitoring from an evaluation monitoring to Corrective Action Monitoring Program (CAMP) [22 CCR 66264.706], this issue is addressed in the new Sampling and Analysis Plan (SECOR, 2007) [22 CCR 66270.14(d)(3)].

14 Potential Redevelopment [22 CCR 66270.14(b)(19)]

The Site Owner has no intention of developing the fenced waste disposal areas of the Facility and will not allow any use of the property that might disturb the integrity of the final cover or components of the containment systems, or the functioning of the monitoring system. The site shall not be used for any purpose, with the exception of site maintenance and groundwater monitoring. The site will be maintained as non-irrigated open space, closed to the public. No agricultural or range use will be permitted. No facilities or deep rooted vegetation will be allowed on filled areas.

Pursuant to 22CCR 66264.119(b)(1)(A) and (B), a recordation for use restrictions ("Land Use Covenant") on the Property was recorded in the Fresno County official records on [Insert date of recording]" by Fresno County. The record of location of the Facility is included on Drawings 1, 2, and 3.

15 Additional Information

DTSC has not requested additional information.

16 References

California Department of Fish and Game – Endangered and Threatened Animals List, at: <http://www.dfg.ca.gov/whdab/pdfs/TEAnimals.pdf>.

California Department of Fish and Game – Endangered, Threatened and Rare Plants List, at: <http://www.dfg.ca.gov/whdab/pdfs/TEPlants.pdf>.

California Regional Water Quality Control Board – 1999, Order No. 99-087, Waste Discharge Requirements for County of Fresno for Post-Closure Maintenance of Blue Hills Disposal Facility, Fresno County.

EMCON – 1988, Closure and Postclosure Plan, Blue Hills Disposal Site, Fresno County, California.

EMCON – 1991, Closure and Postclosure Plan, Revision 5, Blue Hills Disposal Site.

EMCON – 1993, Closure Construction Report (Final Cover Placement), Blue Hills Disposal Facility.

EMCON – 1997, Postclosure Maintenance Plan, Blue Hills Disposal Site.

Uribe & Associates – 2004, Chevron U.S.A., Inc. Final Post-Closure Permit Application for the Westside Disposal Facility, Part B. – Used as example.

SECOR – 2006, Fourth Quarter 2005 Groundwater Monitoring Report and 2005 Annual Evaluation, Blue Hills Disposal Facility for Fresno County.

U.S. Department of Homeland Security – FEMA Issued Flood Maps, at: <http://msc.fema.gov/webapp/wcs/stores/servlet/CategoryDisplay>.