South Bay Power Plant
990 Bay Boulevard
Chula Vista, CA 91911

DYNEGY

April 10, 2009

Mr. John Robertus
Executive Officer
San Diego Bay Regional Water Quality Control Board
9174 Sky Park Court, Suite 100
San Diego, CA 92123

Attention: Mr. Vicente Rodriquez

Subject: **NPDES Permit Renewal Application**
NPDES Permit No. CA0001368, Order No. R9-2004-0154
Dynegy South Bay, LLC – South Bay Power Plant

Dear Mr. Robertus:

Enclosed are the following application forms to renew the NPDES Permit for NPDES Permit No. CA0001368 for Dynegy South Bay, LLC's South Bay Power Plant:

- Signatory and Certification Statement;
- Contributions Disclosure Statement;
- RWQCB Form 200, including a description of Best Management Practices;
- EPA Form 1 of the Consolidated Permit Program, including Table 1 Existing Environmental Permits (Continued) and Figures 1, 2, and 3;
- EPA Form 2C of the Consolidated Permit Program, including a detailed Water Flow Diagram, Table 2 Discharge Flow Rates and Volumes, Table 3 Potential Discharges Not Covered by Analysis, and analytical data for the inlet and outfall discharge, S2;
- Appendix A monitoring data of California Toxics Rule Priority Pollutants pursuant to the State Implementation Policy; and
- Storm Water Pollution Prevention Plan.

Previously submitted historical analytical data from routine monitoring of the inlet and outfall discharge is available upon request. If you have any questions, please contact Michelle Bubniak at 925-803-5111.

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 gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed 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.

Sincerely,

Daniel P. Thompson
Vice President
Dynegy West Region Operations

Enclosures

Signatory and Certification Statement

SIGNATORY AND CERTIFICATION STATEMENT

I certify that:

(for a municipal, state, federal, or other public agency) I am a principal executive officer or ranking elected official; or

In the case of Federal agencies, I am the chief executive officer of the agency, or I am the senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

(for a partnership or sole proprietorship) I am a general partner (partnership) or a proprietor (sole proprietorship)

(for a corporation) I am President, Vice President, Secretary, or Treasurer of the corporation and in charge of a principal business function, or I perform similar *policy or decision making functions for the corporation*; *or*,

I am the manager of one or more manufacturing, production or operating facilities employing more than 250 person or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), and authority to sign documents has been assigned or delegated to me in accordance with corporate procedures.

****

SIGNATORY AND CERTIFICATION STATEMENT

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.

Date of Cover Letter	Description of Document
April 10, 2009	Application

Type of Organization: (please circle)

1. Sole proprietorship
2. Partnership
3. Corporation
4. Municipal
5. State, federal, or other public agency

Signature _____

Name Daniel P. Thompson

Title Vice President, Dynegy West Region Operations

Date April 10, 2009

Organization Dynegy South Bay, LLC

Address 990 Bay Boulevard, Chula Vista, CA 91911

Phone Number 925-803-5102

Contributions Disclosure Statement

CONTRIBUTIONS DISCLOSURE STATEMENT

Check the appropriate response:

_____X_____ I certify that Dynegy South Bay LLC
(name of applicant)
has **not** made contributions amounting to $250.00 or more to any of the current Regional Board members, within 12 months of the date of this application, for use in a federal, state, or local election.

_____ I certify that _____
(name of applicant)
has made contributions amounting to $250.00 or more to any of the current Regional Board members, within 12 months of the date of this application, for use in a federal, state, or local election.

Regional Board Member Amount of Contribution

Signature _____

Name Daniel P. Thompson

Title Vice President, Dynegy West Region Operations

Date April 10, 2009

Organization Dynegy South Bay, LLC

Address 990 Bay Boulevard, Chula Vista, CA 91911

Phone Number 925-803-5102

RWQCB Form 200

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

State of California
Regional Water Quality Control Board

APPLICATION/REPORT OF WASTE DISCHARGE
GENERAL INFORMATION FORM FOR
WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT

I. FACILITY INFORMATION

A. Facility:

Name: Dynegy South Bay, LLC - South Bay Power Plant			
Address: 990 Bay Boulevard			
City: Chula Vista	County: San Diego	State: CA	Zip Code: 91911
Contact Person: Leonard J. Cigainero, Plant Manager		Telephone Number: (619) 498-5384	

B. Facility Owner:

Name: San Diego Unified Port District			Owner Type (Check One) 1. ☐ Individual 2. ☐ Corporation
Address: 3165 Pacific Highway			3. ☑ Governmental Agency 4. ☐ Partnership
City: San Diego	State: CA	Zip Code: 92101	5. ☐ Other:
Contact Person: Bill Hays		Telephone Number: (619) 686-6584	Federal Tax ID:

C. Facility Operator (The agency or business, not the person):

Name: Dynegy South Bay, LLC			Operator Type (Check One) 1. ☐ Individual 2. ☑ Corporation
Address: 990 Bay Boulevard			3. ☐ Governmental Agency 4. ☐ Partnership
City: Chula Vista	State: CA	Zip Code: 91911	5. ☐ Other:
Contact Person: Leonard J. Cigainero, Plant Manager		Telephone Number: (619) 498-5384	

D. Owner of the Land:

Name: San Diego Unified Port District			Owner Type (Check One) 1. ☐ Individual 2. ☐ Corporation
Address: 3165 Pacific Highway			3. ☑ Governmental Agency 4. ☐ Partnership
City: San Diego	State: CA	Zip Code: 92101	5. ☐ Other:
Contact Person:		Telephone Number: (619) 686-6200	

E. Address Where Legal Notice May Be Served:

Address: 990 Bay Boulevard		
City: Chula Vista	State: CA	Zip Code: 91911
Contact Person: Leonard J. Cigainero, Plant Manager		Telephone Number: (619) 498-5384

F. Billing Address:

Address: 990 Bay Boulevard		
City: Chula Vista	State: CA	Zip Code: 91911
Contact Person: Leonard J. Cigainero, Plant Manager		Telephone Number: (619) 498-5384

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

State of California
Regional Water Quality Control Board

APPLICATION/REPORT OF WASTE DISCHARGE GENERAL INFORMATION FORM FOR WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT

II. TYPE OF DISCHARGE

Check Type of Discharge(s) Described in this Application (A or B):

☐ **A. WASTE DISCHARGE TO LAND** ☑ **B. WASTE DISCHARGE TO SURFACE WATER**

Check all that apply:

- ☐ Domestic/Municipal Wastewater Treatment and Disposal
- ☑ Cooling Water
- ☐ Mining
- ☐ Waste Pile
- ☐ Wastewater Reclamation
- ☐ Other, please describe: _____
- ☐ Animal Waste Solids
- ☐ Land Treatment Unit
- ☐ Dredge Material Disposal
- ☐ Surface Impoundment
- ☐ Industrial Process Wastewater
- ☐ Animal or Aquacultural Wastewater
- ☐ Biosolids/Residual
- ☐ Hazardous Waste (see instructions)
- ☐ Landfill (see instructions)
- ☑ Storm Water

III. LOCATION OF THE FACILITY

Describe the physical location of the facility.

1. Assessor's Parcel Number(s)	2. Latitude	3. Longitude
Facility: 001-082-11-80	**Facility:** N32 36 50	**Facility:** W177 05 49
Discharge Point: 001-082-11-80	**Discharge Point:** N32 36 33	**Discharge Point:** W117 06 49

IV. REASON FOR FILING

- ☐ New Discharge or Facility
- ☐ Changes in Ownership/Operator (see instructions)
- ☐ Change in Design or Operation
- ☑ Waste Discharge Requirements Update or NPDES Permit Reissuance
- ☐ Change in Quantity/Type of Discharge
- ☐ Other: _____

V. CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

Name of Lead Agency: California Regional Water Quality Control Board, San Diego Region (SDRWQCB)

Has a public agency determined that the proposed project is exempt from CEQA? ☑ **Yes** ☐ **No**

If Yes, state the basis for the exemption and the name of the agency supplying the exemption on the line below.

Basis for Exemption/Agency: SDRWQCB per Section 13389 of the California Water Code

Has a "Notice of Determination" been filed under CEQA? ☐ **Yes** ☑ **No**

If Yes, enclose a copy of the CEQA document, Environmental Impact Report, or Negative Declaration. If no, identify the expected type of CEQA document and expected date of completion.

Expected CEQA Documents:

☐ **EIR** ☐ **Negative Declaration** **Expected CEQA Completion Date:** _____

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

State of California
Regional Water Quality Control Board

APPLICATION/REPORT OF WASTE DISCHARGE
GENERAL INFORMATION FORM FOR
WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT

VI. OTHER REQUIRED INFORMATION

Please provide a COMPLETE characterization of your discharge. A complete characterization includes, but is not limited to, design and actual flows, a list of constituents and the discharge concentration of each constituent, a list of other appropriate waste discharge characteristics, a description and schematic drawing of all treatment processes, a description of any Best Management Practices (BMPs) used, and a description of disposal methods.

Also include a site map showing the location of the facility and, if you are submitting this application for an NPDES permit, identify the surface water to which you propose to discharge. Please try to limit your maps to a scale of 1:24,000 (7.5' USGS Quadrangle) or a street map, if more appropriate.

VII. OTHER

Attach additional sheets to explain any responses which need clarification. List attachments with titles and dates below:

See attached EPA Forms 1 and 2C and attachments.

You will be notified by a representative of the RWQCB within 30 days of receipt of your application. The notice will state if your application is complete or if there is additional information you must submit to complete your Application/Report of Waste Discharge, pursuant to Division 7, Section 13260 of the California Water Code.

VIII. CERTIFICATION

"I certify under penalty of law that this document, including all attachments and supplemental information, were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated 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."

Print Name: Daniel P. Thompson

Title: VP, Dynegy West Region Operations

Signature:

Date: April 10, 2009

FOR OFFICE USE ONLY

Date Form 200 Received:	Letter to Discharger:	Fee Amount Received:	Check #:

Dynegy South Bay Power Plant
Description of Best Management Practices

Dynegy South Bay, LLC (Dynegy) implements and performs Best Management Practices (BMPs) related to potential sources of pollutants from plant activities which could be released to storm water, from the plant's service water system (closed-loop cooling water system), and the plant's once-through cooling water system.

Dynegy's Storm Water Pollution Prevention Plan (SWPPP) evaluates the facility and activities for their potential to release pollutants to storm water run-off from the site and identifies structural and nonstructural BMPs to minimize the release of pollutants. The SWPPP also addresses preventative maintenance, housekeeping, employee training, etc. The SWPPP is attached following the Appendix A monitoring data in the NPDES permit application.

A general description of additional BMPs is included for the following systems:

Cooling Water Chlorination System
Sodium hypochlorite is used in the intermittent chlorination of the cooling water system. Bulk deliveries of sodium hypochlorite are made by tanker trucks to a single tank located on the cooling water deck. This tank has secondary containment to prevent the release of sodium hypochlorite in the event of a tank rupture. The containment has a locked drain for the release of storm water after visual inspections are performed. The chlorination system is routinely checked on a daily basis by operational and/or laboratory personnel.

Service Water System
The facility utilizes a closed-loop cooling water system to cool auxiliary equipment; these systems are referred to as service water systems. Anticorrosion chemicals are used in the systems to maintain reliable service. In the event of a leak from a service water heat exchanger tube or tubesheet, service water may discharge directly into the once-through cooling water system. Cooling Water Heat Exchangers have been retrofitted with impressed current cathodic protection systems to eliminate the use of zinc sacrificial anodes. The current cathodic protection systems are monitored weekly and protect the condenser waterboxes, tubesheets, and the portion of the tubes immediately adjacent to the tubesheets from corrosion. The routine checks of the system are used to determine whether maintenance needs to be performed and verifies that the protection system is operating properly and that an adequate level of cathodic protection exits. In addition, to detect leaks, the service water levels in the system collector tanks are measured once an hour. Any significant change is investigated to determine whether the change in tank level is from a leak or an operational change.

Dynegy South Bay Power Plant
Description of Best Management Practices

Cooling Water System

The condensers on all the units have been retrofitted with impressed current cathodic protection systems to eliminate the use of zinc sacrificial anodes in the condensers. The current cathodic protection systems are monitored weekly and protect the condenser waterboxes, tubesheets, and the portion of the tubes immediately adjacent to the tubesheets from corrosion. The routine checks of the system are used to determine whether maintenance needs to be performed and verifies that the protection system is operating properly and that an adequate level of cathodic protection exits.

There is potential to release significant amounts of toxic or hazardous pollutants to waters of the United States from all the above systems due to equipment failure, improper operation, or natural phenomena. The Best Management Practices listed above have been put in place to reduce the potential for releases to an insignificant level.

EPA Form 1

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e., 12 characters/inch).

Form Approved. OMB No. 2040-0086. Approval expires 5-31-9

FORM 1 GENERAL

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

1. EPA I.D. NUMBER			
S F	CAT000619056	T/A	C D
1 2		14	15

LABEL ITEMS

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill- in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear,) please provide it in the proper fill-in area(s) below. If the label is complete and correct, you needs not complete Items I, III, V, and VI (except VI-B which must be completed regardless.) Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "x" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK "X" YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	MARK "X" YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S. (FORM 2A)		X		B. Does or will this facility (*either existing or proposed*) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
	16	17	18		16	17	18
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)	X		X	D. Is this a proposed facility (*other than those described in A or B above*) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
	22	23	24		22	23	24
E. Does or will this facility treat, store or dispose of hazardous wastes? (FORM 3)		X		F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
	28	29	30		28	28	29
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes wuch as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
	34	35	36		34	35	36
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instruction and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instruction and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	
	40	41	42		40	41	42

III. NAME OF FACILITY

C 1	SKIP	Dynegy South Bay, LLC - South Bay Power Plant	
15	16-29	30	69

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first & title)*	B. PHONE (area code & no.)		
C 2 Cigainero, Leonard J. Plant Manager	619	498	5384
15 16 45	46 - 48	49 - 51	52-55

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX		
C 3 990 Bay Boulevard		
15 16 45		
B. CITY OR TOWN	**C. STATE**	**D. ZIP CODE**
C 4 Chula Vista	CA	91911
15 16 40	41 42	47 - 51

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER		
C 5 990 Bay Boulevard		
15 16 45		
B. COUNTY NAME		
San Diego		
46 77		
C. CITY OR TOWN	**C. STATE**	**D. ZIP CODE**	**F. COUNTY CODE** *(if known)*
C 6 Chula Vista	CA	91911	073
15 16 60	41 - 42	47 - 51	52 - 54

CONTINUED FROM THE FRONT

VIII. SIC CODES *(4 digit, in order of priority)*

A. FIRST		B. SECOND	
4911	(SPECIFY) Electric Power Generation		(SPECIFY)
C. THIRD		**D. FOURTH**	
	(SPECIFY)		(SPECIFY)

VIII. OPERATOR INFORMATION

A. NAME

Dynegy South Bay, LLC

B. Is the name listed in Item VIII-A also the owner? ☐ YES ☒ NO

C. STATUS OF OPERATOR *(Enter the appropriate letter into the answer box; if "Other", specify)*

F= FEDERAL; S= STATE; P= PRIVATE; M= PUBLIC *(OTHER THAN FEDERAL OR STATE)*; O= OTHER (SPECIFY)

P (specify)

D. PHONE *(area code & no.)*

619 498 5385

E. STREET OR P.O. BOX

990 Bay Boulevard

F. CITY OR TOWN

Chula Vista

G. STATE CA

H. ZIP CODE 91911

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☒ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES *(Discharge to Surface Water)*	D. PSD *(Air Emissions from Proposed Sources)*	(SPECIFY)
CA0001368, R9-2004-0154		Title V Air Permit
B. UIC *(Underground Injection of Fluids)*	**E. OTHER** *(Specify)*	
	See Attached List on Table 1	(SPECIFY)
C. RCRA *(Hazardous Wastes)*	**E. OTHER** *(Specify)*	
		(SPECIFY)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS *(provide a brief description)*

Electric Power Generation

XIII. CERTIFICATION *(see instructions)*

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE *(type or print)*	B. SIGNATURE	C. DATE SIGNED
Daniel P. Thompson Vice President, Dynegy West Region Operations		April 10, 2009

COMMENTS FOR OFFICIAL USE ONLY

Dynegy South Bay Power Plant
Existing Environmental Permits (Continued)

Table 1
EPA Form 1
Section X

Permit Name	Permit Number	Expiration Date	Jurisdictional Agency
Air Quality Permit to Operate (PTO) Boiler Number 1	000794	3/31/2010	San Diego Air Pollution Control District (SDAPCD)
Air Quality Permit to Operate (PTO) Boiler Number 2	000795	3/31/2010	SDAPCD
Air Quality PTO Boiler Number 3	001201	3/31/2010	SDAPCD
Air Quality PTO Boiler Number 4	001202	3/31/2010	SDAPCD
Air Quality PTO Emergency Fire Fighting Water Pump - Propane Engine Set	921148	3/31/2010	SDAPCD
Air Quality PTO Emergency Engine Generator Set	940438	3/31/2010	SDAPCD
Air Quality PTO Emergency Engine Generator Set	940439	3/31/2010	SDAPCD
Air Quality PTO Gas Turbine Generator	001276	3/31/2010	SDAPCD
Title V Permit and Title IV Permit	Renewal Application Submitted (11/30/07). No action to date by the SDAPCD on renewal application.	12/5/2008	SDAPCD, USEPA
Tiered Permit - Unit SB - WWT-1	EPA ID No. CAT000619056	Valid until closure has been completed. Closure report submitted on 3/11/2009.	San Diego Department of Health
Business Emergency Plan/Hazardous Materials Inventory	H13939	Plan updated February 2009	San Diego Department of Environmental Health
Storm Water Discharge General Permit	NPDES General Permit No. CAS000001, Water Quality Order No. 97-03-DWQ	None	State Water Resources Control Board
Industrial User Discharge Permit	13-0279-03A Renewal Application Submitted (2/12/09). No action to date.	4/1/2009	Chula Vista Department of Public Works, San Diego Metropolitan Wastewater Department

CAD File:	Drawn By:	Date:	Project No.
G:\\0095145-001.dwg	D. Ludlam	03/02/09	0095145.00

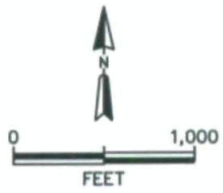


Figure 1

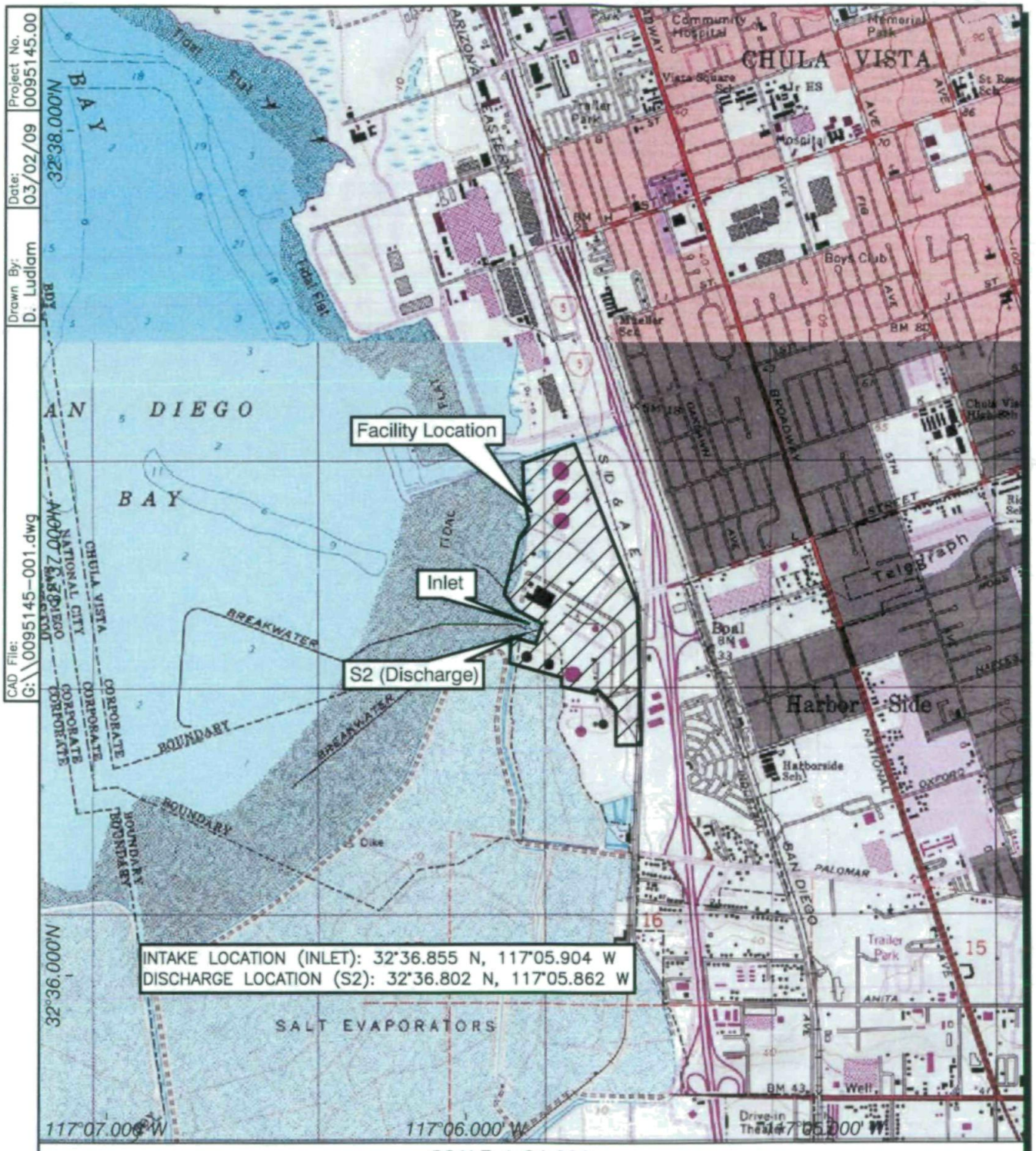
Vicinity Map

Dynegy South Bay, LLC

South Bay Power Plant

Chula Vista, California

ERM 02/09

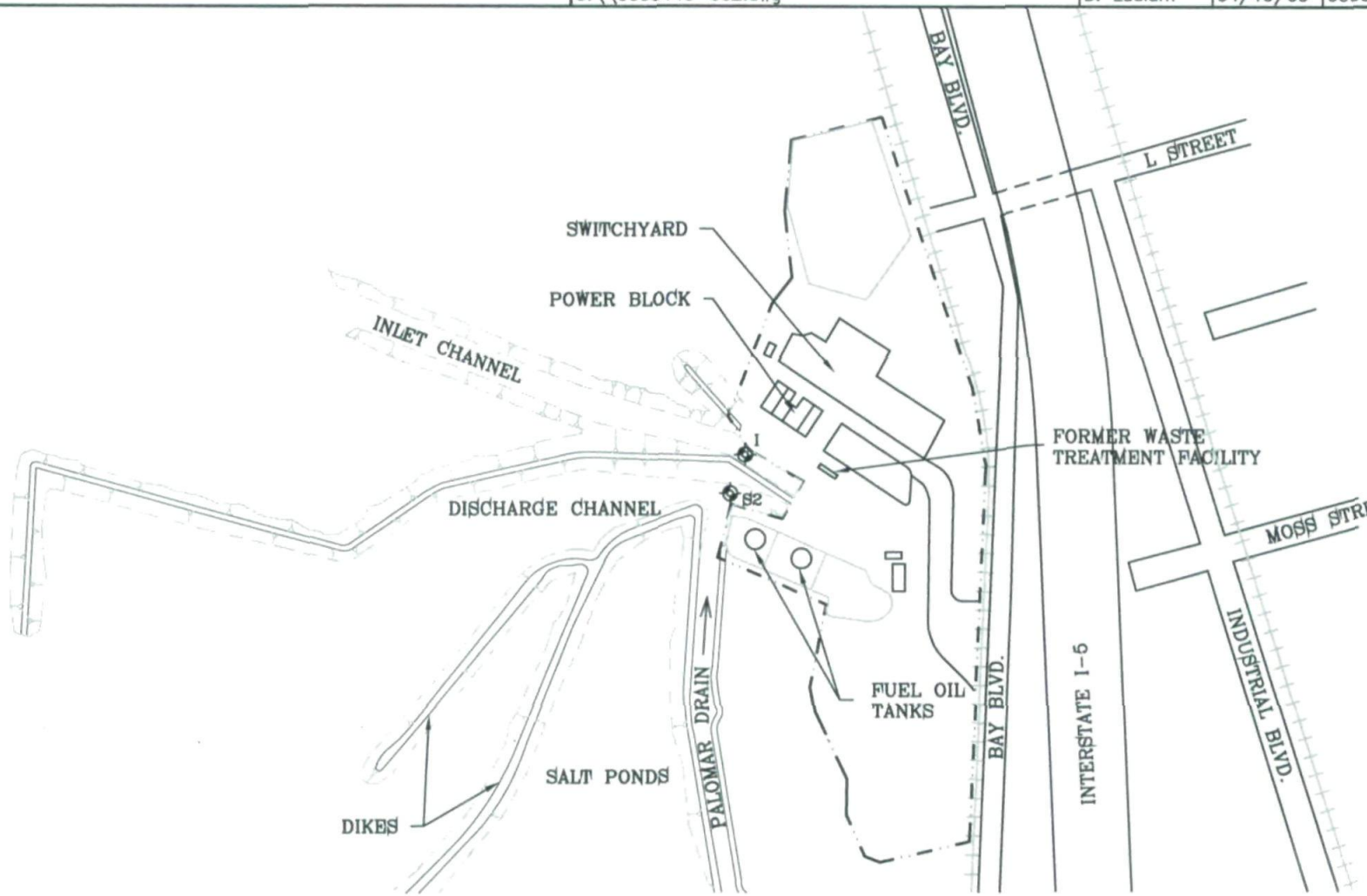


References:
U.S.G.S. 7.5 Minute Series (Topographic) Quadrangle,
Imperial Beach, California
Dated: 1980

Figure 2
Site Map
Dynegy South Bay, LLC
South Bay Power Plant
Chula Vista, California

ERM 02/09

CAD File:	Drawn By:	Date:	Project No.
G:\\0095145-002.dwg	D. Ludlam	04/19/09	0095145.00



Legend

I Inlet Sample Location

S2 Discharge Sample Location

Drainage Flow Direction

N

0 1,200

FEET

Figure 3

Facility Map

Dynegy South Bay, LLC

South Bay Power Plant

Chula Vista, California

ERM 04/09

EPA Form 2C

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)
CAT000619056

Form Approved
OMB No. 2040-0086
Approval expires 3-31-98.

Please print or type in the unshaded areas only

FORM 2C NPDES

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATION
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (*list*)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (*name*)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
S2	**32**	**36**	**48**	**117**	**5**	**52**	**San Diego Bay**

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (*e.g., for certain mining activities*), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL No. (*list*)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION (*list*)	b. AVERAGE FLOW[1] (*include units*)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
S2	**Once-Through Cooling Water**	**601 mgd**	Discharge to Surface Water	4-A	
	(see Water Flow Diagram for complete		Screening	1-T	
	description of discharges associated with		Chlorination	2-F	
	with S2)				
	Traveling Screen Washwater	**1.56 mgd**	Discharge to Surface Water	4-A	
	Pump Lubrication and Seal Water and	**0.127 mgd**	Discharge to Surface Water	4-A	
	Pre-treatment Backwash		Screening	1-T	
	Storm Water Runoff	**0.05 mgd[2]**	Discharge to Surface Water	4-A	
			Best Management Practices		
	[1]Continuous (during Plant operation), intermittent, and seasonal flow data to S2 are summarized in Table 2				
	[2]Total storm water average flow to intake and discharge channels is approximately 0.09 mgd, based on a 25-year, 24-hour storm. Storm water runoff is managed under SWRCB NPDES General Permit for Industrial Activities, Permit No. CAS000001, Order No. 97-03-DWQ.				

OFFICIAL USE ONLY (*effluent guidelines sub-categories*)

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☑ YES *(complete the following table)* ☐ NO *(go to Section III)*

1. OUTFALL NUMBER *(list)*	2. OPERATION *(s)* CONTRIBUTING FLOW *(list)*	3. FREQUENCY a. DAYS PER WEEK *(specify average)*	3. FREQUENCY b. MONTHS PER YEAR *(specify average)*	4. FLOW a. FLOW RATE *(in mgd)* 1. LONG TERM AVERAGE	4. FLOW a. FLOW RATE *(in mgd)* 2. MAXIMUM DAILY	4. FLOW b. TOTAL VOLUME *(specify with units)* 1. LONG TERM AVERAGE	4. FLOW b. TOTAL VOLUME *(specify with units)* 2. MAXIMUM DAILY	c. DURATION *(in days)*
S2	Forebay Cleaning Water	2 days per 6 months		0.001	0.228	0.4 mg	0.23 mg	4
	Units 1 and 2 Circulating Water Pump Station Sump Water	*	*	0.0002	0.004	0.06 mg	0.004 mg	*
		*Unable to quantify frequency. Intermittent, on-demand operation. Estimate annual and long-term average based on 15 days, 24-hour continuous operation of both pumps.						

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☑ YES *(complete Item III-B)* ☐ NO *(go to Section IV)*

B. Are the limitations in the applicable effluent guideline expressed in terms of production *(or other measure of operation)*?

☐ YES *(complete Item III-C)* ☑ NO *(go to Section IV)*

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. *(specify)*	2. AFFECTED OUTFALLS *(list outfall numbers)*

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrade or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES *(complete the following table)* ☑ NO *(go to Item IV-B)*

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS a. NO.	2. AFFECTED OUTFALLS b. SOURCE OF DISCHARGE	3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE a. REQUIRED	4. FINAL COMPLIANCE DATE b. PROJECTED

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (*or other environmental projects which may affect your discharges*) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*
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CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding - Complete one set of tables for each outfall - Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall, For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
None			

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☑ YES *(list all such pollutants below)* ☐ NO *(go to Item VI-B)*

Bromoform - byproduct of closed-loop cooling water system chlorination
Dichlorobromomethane - byproduct of closed-loop cooling water system chlorination
Chlorodibromomethane - byproduct of closed-loop cooling water system chlorination
Chloroform - byproduct of closed-loop cooling water system chlorination

See Table 3 for list of potential chemicals in water discharge.

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharge or on a receiving water in relation to your discharge within the last 3 years?

☑ YES *(identify the test(s) and describe their purposes below)* ☐ NO *(go to Section VIII)*

Dynegy contracts with Weston Solutions, Inc. to conduct monthly acute static renewal percent survival aquatic toxicity tests to mysid shrimp (*Mysidopsis bahia*, renamed *Americamysis bahia*) and monthly chronic definitive bioassays to giant kelp (Macrocystis pyrifera), as required by the NPDES permit.

VIII. CONTRACT ANALYSIS INFORMATION

Where any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☑ YES *(identify list the name, address, and telephone numbr of, and pollutants analyzed by, each such laboratory or firm below)* ☐ NO *(go to Section IX)*

A. NAME	B. ADDRESS	C. TELEPHONE *(area code & no.)*	D. POLLUTANTS ANALYZED *(list)*
San Diego Gas & Electric	**6555 Nancy Ridge Drive, Suite 300 San Diego, CA 92121**	**(619) 260-5747**	**All compounds tested in Item V are analyzed by San Diego Gas & Electric or one of their subcontracted laboratories such as:**
Calsceince Environmental	**7440 Lincoln Way Garden Grove, CA 92841**	**(714) 895-5494**	**Cyanide**
EMS Laboratories Inc.	**117 West Bellevue Drive Pasadena, CA 91105**	**(626) 568-4065**	**Asbestos**
Vista Analytical Laboratories, Inc.	**1104 Windfield Way El Dorado Hills, CA 95762**	**(916) 673-1520**	**Dioxins and Furans**
Weston Solutions	**2433 Impala Drive Carlsbad, CA 92008**	**(760) 795-6900**	**Acute and Chronic Toxicity**

IX. CERTIFICATION

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.

A. NAME AND OFFICIAL TITLE *(type or print)*	B. PHONE NO. *(area code & no.)*
Daniel P. Thompson **Vice President, Dynegy West Region Operation**	**(925) 803-5102**
C. SIGNATURE	D. DATE SIGNED **April 10, 2009**

Dynegy South Bay Power Plant
Discharge Flow Rates and Volumes

Table 2
EPA Form 2C
Section II

Outfall	Waste Stream Description	Duration	Nominal Flow Rate (gpm)	Maximum Flow Rate (gpm)	Annual Total Volume (gal)	Maximum Daily Volume (gal)	Long-Term Average Flow Rate	
							Calculated (gpd)	Rounded (gpd)
S2								
	Once-Through Cooling Water (Units 1-4 circulating pumps only)	Continuous	375,660	417,400	1.97E+11	6.01E+08	5.41E+08	5.41E+08
	Traveling Screen Washwater[1]	Continuous	988	1,097	5.19E+08	1,580,000	1,422,000	1,400,000
	Pump Lubrication and Seal Water and Pre-treatment Backwash	Continuous	79	88	4.64E+07	127,000	127,000	130,000
	Forebay Cleaning Washwater	Intermittent	150	158	361,000	228,000	989	1,000
	Units 1 and 2 Circulating Water Pump Station Sump Water[2]	Intermittent	3	3	64,800	4,320	178	200
	Storm Water Runoff [3]	*Seasonal*			*338,000*	*51,000*		

Footnotes:

[1] Combined traveling screen washwater from Units 1- 4 intake structures that discharges to San Diego Bay via traveling screen washwater conduit. Approximately 50 percent of washwater falls back into the intake and 50 percent is discharged via traveling screen washwater conduit to the discharge channel.

[2] Two sump pumps normally operate with only one pump operating at a time to maintain a dry sump. If water level is high, then both start and run as long as necessary for sump to be pumped down. Assumed annual average flow rate operation is 24 hours/day for 15 days with both pumps running.

[3] Assumed annual average precipitation is 9.9 inches (San Diego County Water Authority 2008). Storm water runoff is managed under the State Water Board NPDES General Permit for Industrial Activities.

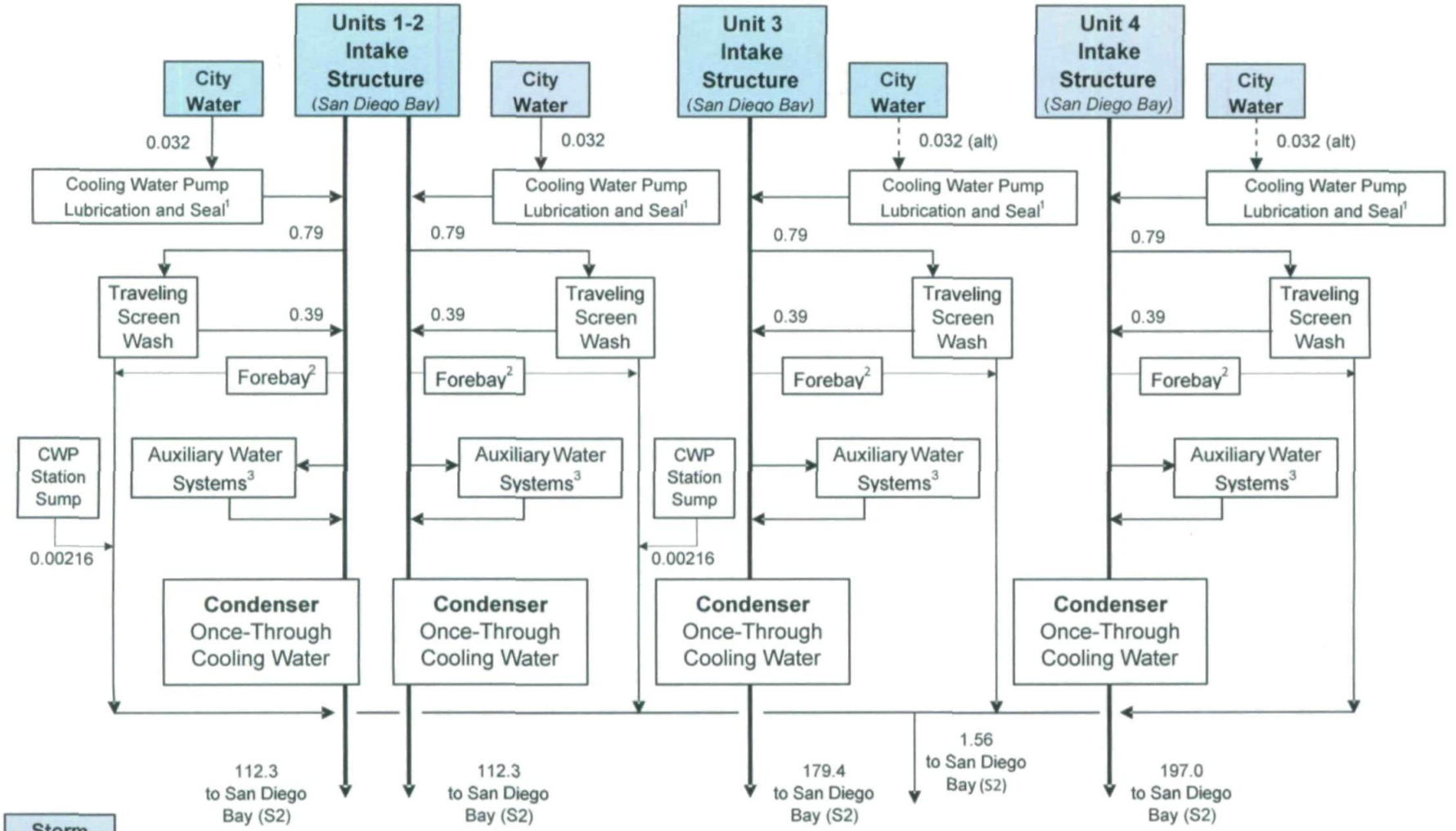
Dynegy South Bay Power Plant
Effluent Characteristics
Potential Discharges Not Covered By Analysis

Table 3
EPA Form 2C
Section VI

A complete list of chemicals used in large quantities is updated annually in the Hazardous Materials Business Plan. The storage and use of chemicals at South Bay Power Plant is conducted in strict conformance with regulatory and internal procedures. As such, the discharge of any of these chemicals is highly unlikely because of the controls and operating procedures that are in place.

Chemical	Description
Aqueous solution of phosphate, polyacrylate, borate, tolytriazole, molybolate, sodium hydroxide	A corrosion inhibitor used in the closed-cycle cooling water system.
Alfalfa/hay pellets	Used to control or plug condenser leaks.
Dodecylguanidine hydrochloride methylene bis(thiocyanate) isopropyl alcohol	A biocide used to control microbial induced corrosion in the closed-cycle cooling water system.
Sodium hypochlorite	Used to control biofouling in the condensers.

Dynegy South Bay Power Plant
Water Flow Diagram



Notes:

CWP = circulating water pump

All flow rates are maximum rates in million gallons per day (mgd); traveling screen rates based on maximum 24-hour continuous operation

[1]Maximum combined flow rate from lubrication and seal water coupled with lubrication and seal water pre-treatment backwash is 0.127 mgd

[2]Forebay comprise dewatering discharge and forebay cleaning wash water on each unit once or twice a year, maximum combined daily flow rate is 0.23 mgd

[3]Auxiliary water systems comprise water from six salt water heat exchanger cooling systems (Units 1-4), condenser pre-filter and ball re-circulation system (Unit 1 only), and two condensate generator cooling systems (Units 1 and 2)

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: **CAT000619056**

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO.: **S2**

PART A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	3. UNITS (specify if blank) a. CONCEN-TRATION	3. UNITS b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	ND (MDL = 2.00)	ND <3.56					1	mg/L	ton	ND (MDL = 2.00)	ND <3.56	1
b. Chemical Oxygen Demand *(COD)*	380	677					1	mg/L	ton	440	783	1
c. Total Organic Carbon *(TOC)*	0.97	1.7					1	mg/L	ton	1.0	1.8	1
d. Total Suspended Solids *(TSS)*	36.0	64.1					12	mg/L	ton	44.0	78.3	12
e. Ammonia *(as N)*	0.78	1.4					1	mg/L	ton	0.34	0.6	1
f. Flow	VALUE 428.2		VALUE 388		VALUE		daily	MGD		VALUE 601.1		daily
g. Temperature *(winter)* Nov-Apr	VALUE 21.2		VALUE 23.9		VALUE		daily	°C				daily
h. Temperature *(summer)* May-Oct	VALUE 28.2		VALUE 30.7		VALUE		daily	°C				daily
i. pH	MINIMUM 7.90	MAXIMUM 8.09	MINIMUM 7.90	MAXIMUM 8.09			12	STANDARD UNITS				

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete on table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK "X" a. BELIEVED PRESENT	2. MARK "X" b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS	c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION	c. LONG TERM AVRG. VALUE *(if available)* (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCEN-TRATION	4. UNITS b. MASS	5. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		78	139					1	mg/l	ton	75	134	1
b. Chlorine, Total Residual	X		0.060	0.11					12	mg/l	ton	0.050	0.09	12
c. Color	X		3.00	Not Applicable					1	color units	Not Applicable	17.0	Not Applicable	1
d. Fecal Coliform	X		170	Not Applicable					1	MPN/100mL	Not Applicable	80	Not Applicable	1
e. Fluoride (16984-48-8)	X		1.2	2.1					1	mg/l	ton	1.2	2	1
f. Nitrate-Nitrite *(as N)*	X		ND (MDL = 0.009)	ND <0.02					1	mg/l	ton	ND (MDL = 0.009)	ND <0.02	1

Note: All data values taken from 2009, unless otherwise noted. Data values, including intake long-term average, for total suspended solids, flow, temperature, pH, oil and grease, and total residual chlorine taken from January - December 2008. Temperature data based on monthly average temperatures, as reported in 2008 DMRs. Mass calculated using maximum daily flow from 2008 (428.2 mgd); nondetect (ND) mass calculations use RL or MDL as concentration. "<" = nondetect

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X" a. BELIEVED PRESENT	2. MARK "X" a. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)	X		ND (MDL = 0.50)	ND <0.9					1	mg/l	ton	ND (MDL = 0.50)	ND <0.89	1
h. Oil and Grease	X		12.0	21.4					12	mg/l	ton			
i. Phosphorus (as P), Total (7723-14-0)	X		0.35	0.62					1	mg/l	ton	0.33	0.59	1
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO_4) (14808-79-8)	X		2500	4451					1	mg/l	ton	2500	4451	1
l. Sulfide (as S)	X		ND (MDL = 0.042)	ND <0.07					1	mg/l	ton	ND (MDL = 0.042)	ND <0.07	1
m. Sulfite (as SO_3) (14265-45-3)	X		ND (MDL = 0.49)	ND <0.87					1	mg/l	ton	0.80 J	1.42 J	1
n. Surfactants	X		0.2 J	0.4 J					1	mg/l	ton	0.2 J	0.4 J	1
o. Aluminum, Total (7429-90-5)	X		0.83	1.48					1	mg/l	ton	0.98	1.74	1
p. Barium, Total (7440-39-3)	X		ND (MDL = 0.025)	ND <0.04					1	mg/l	ton	ND (MDL = 0.025)	ND <0.04	1
q. Boron, Total (7440-42-8)	X		3.4	6.1					1	mg/l	ton	3.5	6.2	1
r. Cobalt, Total (7440-48-4)	X		ND (MDL = 0.036)	ND <0.06					1	mg/l	ton	ND (MDL = 0.036)	ND <0.06	1
s. Iron, Total (7439-89-6)	X		0.73	1.30					1	mg/l	ton	0.74	1.32	1
t. Magnesium, Total (7439-95-4)	X		1200	2137					1	mg/l	ton	1300	2315	1
u. Molybdenum, Total (7439-98-7)	X		ND (MDL = 0.0088)	ND <0.02					1	mg/l	ton	ND (MDL = 0.0088)	ND <0.02	1
v. Manganese, Total (7439-96-5)	X		0.021	0.037					1	mg/l	ton	0.025	0.045	1
w. Tin, Total (7440-31-5)	X		ND (MDL = 0.14)	ND <0.25					1	mg/l	ton	ND (MDL = 0.14)	ND <0.25	1
x. Titanium, Total (7440-32-6)	X		0.043	0.077					1	mg/l	ton	0.047	0.084	1

Note: All data values taken from 2009, unless otherwise noted. Data values for oil and grease taken from January - December 2008. Mass calculated using maximum daily flow from 2008 (428.2 mgd); nondetect (ND) mass calculations use RL or MDL as concentration. "<" = nondetect "J" = estimated value

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C – If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant of you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each o

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	X			ND (MDL = 0.50)	ND <0.001					1	µg/l	ton	ND (MDL = 0.50)	ND <0.001	1
2M. Arsenic, Total (7440-38-2)	X			3.2	0.006					13	µg/l	ton	1.9 J	0.003 J	13
3M. Beryllium, Total (7440-41-7)	X			0.029 J	0.0001 J					1	µg/l	ton	ND (MDL = 0.027)	ND <0.00005	1
4M. Cadmium, Total (7440-43-9)	X			ND (MDL = 0.040)	ND <0.0001					13	µg/l	ton	ND (MDL = 0.040)	ND <0.0001	13
5M. Chromium, Total (7440-47-3)	X			ND (MDL = 0.43)	ND <0.0008					13	µg/l	ton	ND (MDL = 0.43)	ND <0.001	13
6M. Copper, Total (7440-50-8)	X			3.39	0.006					13	µg/l	ton	3.56	0.006	13
7M. Lead, Total (7439-92-1)	X			0.27 J	0.0005 J					1	µg/l	ton	0.28 J	0.0005 J	1
8M. Mercury, Total (7439-97-6)	X			ND (MDL = 0.0028)	ND <0.000005					13	µg/l	ton	ND (MDL = 0.0028)	ND <0.000005	13
9M. Nickel, Total (7440-02-0)	X			1.2 J	0.002 J					1	µg/l	ton	1.3 J	0.002 J	1
10M. Selenium, Total (7782-49-2)	X			3.4 J	0.006 J					1	µg/l	ton	1.7 J	0.003 J	1
11M. Silver, Total (7440-22-4)	X			0.022 J	0.00004 J					1	µg/l	ton	0.019 J	0.0000 J	1
12M. Thallium, Total (7440-28-0)	X			0.0860 J	0.0002 J					1	µg/l	ton	0.291 J	0.0005 J	1
13M. Zinc, Total (7440-66-6)	X			7.6 J	0.01 J					13	µg/l	ton	7.6 J	0.01 J	13
14M. Cyanide, Total (57-12-5)	X			ND (MDL = 0.020)	ND <0.036					1	mg/l	ton	ND (MDL = 0.020)	ND <0.036	1
15M. Phenols, Total	X			0.17	0.30					1	mg/l	ton	0.28	0.50	1
DIOXIN															
2,3,7,8 Tetra-chlorodibenzo-P Dioxin (1764-01-6)			X	DESCRIBE RESULTS For S2, Maximum Daily Value = Nondetect (DL = 0.137 pg/L), 1 analysis. For Inlet, Maximum Daily Value = Nondetect (DL = 0.165 pg/L), 1 analysis.											

CONTINUE ON PAGE V-4

Note: All data values taken from 2009, unless otherwise noted. Mass calculated using maximum daily flow from 2008 (428.2 mgd); nondetect (ND) mass calculations use method detection limit (MDL) as the concentration. Data values for arsenic, cadmium, chromium, copper, mercury, and zinc taken from January - December 2008 and 2009. "<" = nondetect "J" = estimated value

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATI	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)	X			ND (MDL = 20)	ND <0.04					1	µg/l	ton	ND (MDL = 20)	ND <0.04	1
2V. Acrylonitrile (107-13-1)	X			ND (MDL = 10)	ND <0.02					1	µg/l	ton	ND (MDL = 10)	ND <0.02	1
3V. Benzene (71-43-2)	X			ND (MDL = 0.55)	ND <0.001					1	µg/l	ton	ND (MDL = 0.55)	ND <0.001	1
4V. Bis (*Chloromethyl*) Ether (542-88-1)			X[1]												
5V. Bromoform (75-25-2)	X			ND (MDL = 1.0)	ND <0.002					1	µg/l	ton	ND (MDL = 1.0)	ND <0.002	1
6V. Carbon Tetrachloride (56-23-5)	X			ND (MDL = 1.0)	ND <0.002					1	µg/l	ton	ND (MDL = 1.0)	ND <0.002	1
7V. Chlorobenzene (108-90-7)	X			ND (MDL = 0.50)	ND <0.001					1	µg/l	ton	ND (MDL = 0.50)	ND <0.001	1
8V. Chlorodibromomethane (124-48-1)	X			ND (MDL = 0.070)	ND <0.0001					1	µg/l	ton	ND (MDL = 0.070)	ND <0.0001	1
9V. Chloroethane (75-00-3)	X			ND (MDL = 0.77)	ND <0.001					1	µg/l	ton	ND (MDL = 0.77)	ND <0.001	1
10V. 2-Chloroethylvinyl Ether (110-75-8)	X			ND (MDL = 1.1)	ND <0.002					1	µg/l	ton	ND (MDL = 1.1)	ND <0.002	1
11V. Chloroform (67-66-3)	X			ND (MDL = 0.96)	ND <0.002					1	µg/l	ton	ND (MDL = 0.96)	ND <0.002	1
12V. Dichlorobromomethane (75-27-4)	X			ND (MDL = 1.1)	ND <0.002					1	µg/l	ton	ND (MDL = 1.1)	ND <0.002	1
13V. Dichlorodifluoromethane (75-71-8)	X			ND (MDL = 0.050)	ND <0.000					1	µg/l	ton	ND (MDL = 0.050)	ND <0.0001	1
14V. 1,1-Dichloroethane (75-34-3)	X			ND (MDL = 0.77)	ND <0.001					1	µg/l	ton	ND (MDL = 0.77)	ND <0.001	1
15V. 1,2-Dichloroethane (107-06-2)	X			ND (MDL = 1.3)	ND <0.002					1	µg/l	ton	ND (MDL = 1.3)	ND <0.002	1
16V. 1,1-Dichloroethylene (75-35-4)	X			ND (MDL = 0.77)	ND <0.001					1	µg/l	ton	ND (MDL = 0.77)	ND <0.001	1
17V. 1,2-Dichloropropane (78-87-5)	X			ND (MDL = 0.89)	ND <0.002					1	µg/l	ton	ND (MDL = 0.89)	ND <0.002	1
18V. 1,3-Dichloropropylene (542-75-6)	X			ND (MDL = 0.96)	ND <0.002					1	µg/l	ton	ND (MDL = 0.96)	ND <0.002	1
19V. Ethylbenzene (100-41-4)	X			ND (MDL = 0.58)	ND <0.001					1	µg/l	ton	ND (MDL = 0.58)	ND <0.001	1
20V. Methyl Bromide (74-83-9)	X			ND (MDL = 3.0)	ND <0.005					1	µg/l	ton	ND (MDL = 3.0)	ND <0.005	1
21V. Methyl Chloride (74-87-3)	X			ND (MDL = 0.77)	ND <0.001					1	µg/l	ton	ND (MDL = 0.77)	ND <0.001	1

Note: All data values taken from 2009, unless otherwise noted. Mass calculated using maximum daily flow from 2008 (428.2 mgd); nondetect (ND) mass calculations use method detection limit (MDL) as the concentration. "<" = nondetect

[1]Bis (chloromethyl) ether is a compound that is considered non-reportable due to its rapid rate of hydrolysis and is not expected to be found in water. It is not listed as a fraction designated in table I of Appendix D, 40 CFR Part 122 (NPDES Permit Application Testing Requirements, §122.21).

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (*continued*)															
22V. Methylene Chloride (75-09-2)	X			ND (MDL = 15)	ND <0.027					1	µg/l	ton	ND (MDL = 15)	ND <0.027	1
23V. 1,1,2,2-Tetrachloroethane (79-34-5)	X			ND (MDL = 2.6)	ND <0.005					1	µg/l	ton	ND (MDL = 2.6)	ND <0.005	1
24V. Tetrachloro-ethylene (127-18-4)	X			ND (MDL = 1.2)	ND <0.002					1	µg/l	ton	ND (MDL = 1.2)	ND <0.002	1
25V. Toluene (108-88-3)	X			ND (MDL = 1.2)	ND <0.002					1	µg/l	ton	ND (MDL = 1.2)	ND <0.002	1
26V. 1,2-Trans-Dichloroethylene (156-60-5)	X			ND (MDL = 1.6)	ND <0.003					1	µg/l	ton	ND (MDL = 1.6)	ND <0.003	1
27V. 1,1,1-Trichloro-ethane (71-55-6)	X			ND (MDL = 0.74)	ND <0.001					1	µg/l	ton	ND (MDL = 0.74)	ND <0.001	1
28V. 1,1,2-TriChloro-ethane (79-00-5)	X			ND (MDL = 1.2)	ND <0.002					1	µg/l	ton	ND (MDL = 1.2)	ND <0.002	1
29V. Trichloro-ethylene (79-01-6)	X			ND (MDL = 1.1)	ND <0.002					1	µg/l	ton	ND (MDL = 1.1)	ND <0.002	1
30V. Trichloro-fluoromethane (75-69-4)	X			ND (MDL = 1.2)	ND <0.002					1	µg/l	ton	ND (MDL = 1.2)	ND <0.002	1
31V. Vinyl Chloride (75-01-4)	X			ND (MDL = 2.7)	ND <0.005					1	µg/l	ton	ND (MDL = 2.7)	ND <0.005	1
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)	X			ND (MDL = 1.01)	ND <0.002					1	µg/l	ton	ND (MDL = 1.01)	ND <0.002	1
2A. 2,4-Dichloro-phenol (120-83-2)	X			ND (MDL = 1.26)	ND <0.002					1	µg/l	ton	ND (MDL = 1.26)	ND <0.002	1
3A. 2,4-Dimethyl-phenol (105-67-9)	X			ND (MDL = 2.00)	ND <0.004					1	µg/l	ton	ND (MDL = 2.00)	ND <0.004	1
4A. 4,6-Dinitro-0-Cresol (534-52-1)	X			ND (MDL = 0.900)	ND <0.002					1	µg/l	ton	ND (MDL = 0.900)	ND <0.002	1
5A. 2,4-Dinitro-phenol (51-28-5)	X			ND (MDL = 1.02)	ND <0.002					1	µg/l	ton	ND (MDL = 1.02)	ND <0.002	1
6A. 2-Nitrophenol (88-75-5)	X			ND (MDL = 1.05)	ND <0.002					1	µg/l	ton	ND (MDL = 1.05)	ND <0.002	1
7A. 4-Nitrophenol (100-02-7)	X			ND (MDL = 3.41)	ND <0.006					1	µg/l	ton	ND (MDL = 3.41)	ND <0.006	1
8A. P-Chloro-M-Cresol (59-50-7)	X			ND (MDL = 5.00)	ND <0.009					1	µg/l	ton	ND (MDL = 5.00)	ND <0.009	1
9A. Pentachloro-phenol (87-86-5)	X			ND (MDL = 0.870)	ND <0.002					1	µg/l	ton	ND (MDL = 0.870)	ND <0.002	1
10A. Phenol (108-95-2)	X			ND (MDL = 1.00)	ND <0.002					1	µg/l	ton	ND (MDL = 1.00)	ND <0.002	1
11A. 2,4,6-Trichloro-phenol (88-06-2)	X			ND (MDL = 1.40)	ND <0.002					1	µg/l	ton	ND (MDL = 1.40)	ND <0.002	1

Note: All data values taken from 2009, unless otherwise noted. Mass calculated using maximum daily flow from 2008 (428.2 mgd); nondetect (ND) mass calculations use method detection limit (MDL) as the concentration. "<" = nondetect

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X" a. TESTING REQUIRED	2. MARK "X" b. BELIEVED PRESENT	2. MARK "X" c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (*optional*) b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	X			ND (MDL = 1.00)	ND <0.002					1	µg/l	ton	ND (MDL = 1.00)	ND <0.002	1
2B. Acenaphthylene (208-96-8)	X			ND (MDL = 1.44)	ND <0.003					1	µg/l	ton	ND (MDL = 1.44)	ND <0.003	1
3B. Anthracene (120-12-7)	X			ND (MDL = 1.56)	ND <0.003					1	µg/l	ton	ND (MDL = 1.56)	ND <0.003	1
4B. Benzidine (92-87-5)	X			ND (MDL = 2.30)	ND <0.004					1	µg/l	ton	ND (MDL = 2.30)	ND <0.004	1
5B. Benzo (*a*) Anthracene (56-55-3)	X			ND (MDL = 0.650)	ND <0.001					1	µg/l	ton	ND (MDL = 0.650)	ND <0.001	1
6B. Benzo (*a*) Pyrene (50-32-8)	X			ND (MDL = 0.600)	ND <0.001					1	µg/l	ton	ND (MDL = 0.600)	ND <0.001	1
7B. 3,4-Benzo-fluoranthene (205-99-2)	X			ND (MDL = 0.870)	ND <0.002					1	µg/l	ton	ND (MDL = 0.870)	ND <0.002	1
8B. Benzo (*ghi*) Perylene (191-24-2)	X			ND (MDL = 0.580)	ND <0.001					1	µg/l	ton	ND (MDL = 0.580)	ND <0.001	1
9B. Benzo (*k*) Fluoranthene (207-08-9)	X			ND (MDL = 0.640)	ND <0.001					1	µg/l	ton	ND (MDL = 0.640)	ND <0.001	1
10B. Bis (*2-Chloro-ethoxy*) Methane (111-91-1)	X			ND (MDL = 1.49)	ND <0.003					1	µg/l	ton	ND (MDL = 1.49)	ND <0.003	1
11B. Bis (*2-Chloro-ethyl*) Ether (111-44-4)	X			ND (MDL = 1.00)	ND <0.002					1	µg/l	ton	ND (MDL = 1.00)	ND <0.002	1
12B. Bis (*2-Chloroisopropyl*) Ether (102-60-1)	X			ND (MDL = 1.31)	ND <0.002					1	µg/l	ton	ND (MDL = 1.31)	ND <0.002	1
13B. Bis (*2-Ethyl-hexyl*) Phthalate (117-81-7)	X			ND (MDL = 5.00)	ND <0.009					1	µg/l	ton	ND (MDL = 5.00)	ND <0.009	1
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	X			ND (MDL = 1.91)	ND <0.003					1	µg/l	ton	ND (MDL = 1.91)	ND <0.003	1
15B. Butyl Benzyl Phthalate (85-68-7)	X			ND (MDL = 0.790)	ND <0.001					1	µg/l	ton	ND (MDL = 0.790)	ND <0.001	1
16B. 2-Chloro-napthalene (91-58-7)	X			ND (MDL = 1.54)	ND <0.003					1	µg/l	ton	ND (MDL = 1.54)	ND <0.003	1
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)	X			ND (MDL = 1.83)	ND <0.003					1	µg/l	ton	ND (MDL = 1.83)	ND <0.003	1
18B. Chrysene (218-01-9)	X			ND (MDL = 0.620)	ND <0.001					1	µg/l	ton	ND (MDL = 0.620)	ND <0.001	1
19B. Dibenzo (*a,h*) Anthracene (53-70-3)	X			ND (MDL = 0.690)	ND <0.001					1	µg/l	ton	ND (MDL = 0.690)	ND <0.001	1
20B. 1,2-Dichloro-benzene (95-50-1)	X			ND (MDL = 0.990)	ND <0.002					1	µg/l	ton	ND (MDL = 0.990)	ND <0.002	1
21B. 1,3-Dichloro-benzene (541-73-1)	X			ND (MDL = 1.00)	ND <0.002					1	µg/l	ton	ND (MDL = 1.00)	ND <0.002	1

Note: All data values taken from 2009, unless otherwise noted. Mass calculated using maximum daily flow from 2008 (428.2 mgd); nondetect (ND) mass calculations use method detection limit (MDL) as the concentration. "<" = nondetect

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X" a. TESTING REQUIRED	2. MARK "X" b. BELIEVED PRESENT	2. MARK "X" c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (*optional*) b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
22B. 1,4-Dichlorobenzene (106-46-7)	X			ND (MDL = 0.980)	ND <0.002					1	µg/l	ton	ND (MDL = 0.980)	ND <0.002	1
23B. 3,3'-Dichlorobenzidine (91-94-1)	X			ND (MDL = 5.00)	ND <0.009					1	µg/l	ton	ND (MDL = 5.00)	ND <0.009	1
24B. Diethyl Phthalate (84-66-2)	X			ND (MDL = 1.95)	ND <0.003					1	µg/l	ton	ND (MDL = 1.95)	ND <0.003	1
25B. Dimethyl Phthalate (131-11-3)	X			ND (MDL = 2.00)	ND <0.004					1	µg/l	ton	ND (MDL = 2.00)	ND <0.004	1
26B. Di-N-Butyl Phthalate (84-74-2)	X			ND (MDL = 1.44)	ND <0.003					1	µg/l	ton	ND (MDL = 1.44)	ND <0.003	1
27B. 2,4-Dinitrotoluene (121-14-2)	X			ND (MDL = 1.60)	ND <0.003					1	µg/l	ton	ND (MDL = 1.60)	ND <0.003	1
28B. 2,6-Dinitrotoluene (606-20-2)	X			ND (MDL = 1.75)	ND <0.003					1	µg/l	ton	ND (MDL = 1.75)	ND <0.003	1
29B. Di-N-Octyl Phthalate (117-84-0)	X			ND (MDL = 0.760)	ND <0.001					1	µg/l	ton	ND (MDL = 0.760)	ND <0.001	1
30B. 1,2-Diphenylhydrazine (*as Azobenzene*) (122-66-7)	X			ND (MDL = 0.800)	ND <0.001					1	µg/l	ton	ND (MDL = 0.800)	ND <0.001	1
31B. Fluoranthene (206-44-0)	X			ND (MDL = 0.740)	ND <0.001					1	µg/l	ton	ND (MDL = 0.740)	ND <0.001	1
32B. Fluorene (86-73-7)	X			ND (MDL = 2.24)	ND <0.004					1	µg/l	ton	ND (MDL = 2.24)	ND <0.004	1
33B. Hexachlorobenzene (118-74-1)	X			ND (MDL = 1.00)	ND <0.002					1	µg/l	ton	ND (MDL = 1.00)	ND <0.002	1
34B. Hexachlorobutadiene (87-68-3)	X			ND (MDL = 1.00)	ND <0.002					1	µg/l	ton	ND (MDL = 1.00)	ND <0.002	1
35B. Hexachlorocyclopentadiene (77-47-4)	X			ND (MDL = 0.720)	ND <0.001					1	µg/l	ton	ND (MDL = 0.720)	ND <0.001	1
36B. Hexachloroethane (67-72-1)	X			ND (MDL = 1.00)	ND <0.002					1	µg/l	ton	ND (MDL = 1.00)	ND <0.002	1
37B. Indeno (*1,2,3-cd*) Pyrene (193-39-5)	X			ND (MDL = 0.620)	ND <0.001					1	µg/l	ton	ND (MDL = 0.620)	ND <0.001	1
38B. Isophorone (78-59-1)	X			ND (MDL = 1.00)	ND <0.002					1	µg/l	ton	ND (MDL = 1.00)	ND <0.002	1
39B. Naphthalene (91-20-3)	X			ND (MDL = 1.00)	ND <0.002					1	µg/l	ton	ND (MDL = 1.00)	ND <0.002	1
40B. Nitrobenzene (98-95-3)	X			ND (MDL = 1.00)	ND <0.002					1	µg/l	ton	ND (MDL = 1.00)	ND <0.002	1
41B. N-Nitrosodimethylamine (62-75-9)	X			ND (MDL = 5.00)	ND <0.009					1	µg/l	ton	ND (MDL = 5.00)	ND <0.009	1
42B. N-Nitrosodi-N-Propylamine (621-64-7)	X			ND (MDL = 1.45)	ND <0.003					1	µg/l	ton	ND (MDL = 1.45)	ND <0.003	1

Note: All data values taken from 2009, unless otherwise noted. Mass calculated using maximum daily flow from 2008 (428.2 mgd); nondetect (ND) mass calculations use method detection limit (MDL) as the concentration. "<" = nondetect

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
43B. N-Nitro-sodiphenylamine (86-30-6)	X			ND (MDL = 0.500)	ND <0.001					1	µg/l	ton	ND (MDL = 0.500)	ND <0.001	1
44B. Phenanthrene (85-01-8)	X			ND (MDL = 1.80)	ND <0.003					1	µg/l	ton	ND (MDL = 1.80)	ND <0.003	1
45B. Pyrene (129-00-0)	X			ND (MDL = 0.850)	ND <0.002					1	µg/l	ton	ND (MDL = 0.850)	ND <0.002	1
46B. 1,2,4-Tri-Chlorobenzene (120-82-1)	X			ND (MDL = 1.11)	ND <0.002					1	µg/l	ton	ND (MDL = 1.11)	ND <0.002	1
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X	ND (MDL = 0.0100)	ND <0.00002					1	µg/l	ton	ND (MDL = 0.0100)	ND <0.00002	1
2P. α-BHC (319-85-7)			X	0.0172 J	0.00003 J					1	µg/l	ton	0.0159 J	0.00003 J	1
3P.ß-BHC (319-85-7)			X	ND (MDL = 0.00700)	ND <0.00001					1	µg/l	ton	ND (MDL = 0.00700)	ND <0.00001	1
4P. γ-BHC (58-89-9)			X	ND (MDL = 0.00600)	ND <0.00001					1	µg/l	ton	ND (MDL = 0.00600)	ND <0.00001	1
5P. δ-BHC (319-86-8)			X	ND (MDL = 0.0100)	ND <0.00002					1	µg/l	ton	ND (MDL = 0.0100)	ND <0.00002	1
6P. Chlordane (57-74-9)			X	ND (MDL = 0.100)	ND <0.00018					1	µg/l	ton	ND (MDL = 0.100)	ND <0.00018	1
7P. 4,4'-DDT (50-29-3)			X	ND (MDL = 0.0100)	ND <0.00002					1	µg/l	ton	ND (MDL = 0.0100)	ND <0.00002	1
8P. 4,4'-DDE (72-55-9)			X	ND (MDL = 0.00400)	ND <0.00001					1	µg/l	ton	ND (MDL = 0.00400)	ND <0.00001	1
9P. 4,4'-DDD (72-54-8)			X	ND (MDL = 0.00500)	ND <0.00001					1	µg/l	ton	ND (MDL = 0.00500)	ND <0.00001	1
10P. Dieldrin (60-57-1)			X	ND (MDL = 0.00700)	ND <0.00001					1	µg/l	ton	ND (MDL = 0.00700)	ND <0.00001	1
11P. α-Endosulfan (115-29-7)			X	ND (MDL = 0.00700)	ND <0.00001					1	µg/l	ton	ND (MDL = 0.00700)	ND <0.00001	1
12P. ß-Endosulfan (115-29-7)			X	ND (MDL = 0.00400)	ND <0.00001					1	µg/l	ton	ND (MDL = 0.00400)	ND <0.00001	1
13P. Endosulfan Sulfate (1031-07-8)			X	ND (MDL = 0.00500)	ND <0.00001					1	µg/l	ton	ND (MDL = 0.00500)	ND <0.00001	1
14P. Endrin (72-20-8)			X	ND (MDL = 0.0100)	ND <0.00002					1	µg/l	ton	ND (MDL = 0.0100)	ND <0.00002	1
15P. Endrin Aldehyde (7421-93-4)			X	ND (MDL = 0.0100)	ND <0.00002					1	µg/l	ton	ND (MDL = 0.0100)	ND <0.00002	1
16P. Heptachlor (75-44-8)			X	ND (MDL = 0.00600)	ND <0.00001					1	µg/l	ton	ND (MDL = 0.00600)	ND <0.00001	1

Note: All data values taken from 2009, unless otherwise noted. Mass calculated using maximum daily flow from 2008 (428.2 mgd); nondetect (ND) mass calculations use method detection limit (MDL) as the concentration.
"<" = nondetect "J" = estimated value

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
CAT000619056	S2

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – PESTICIDES (*continued*)															
17P. Heptachlor Epoxide (1024-57-3)			X	ND (MDL = 0.00400)	ND <0.00001					1	µg/l	ton	ND (MDL = 0.00400)	ND <0.00001	1
18P. PCB-1242 (53469-21-9)			X	ND (MDL = 0.50)	ND <0.0009					1	µg/l	ton	ND (MDL = 0.50)	ND <0.0009	1
19P. PCB-1254 (11097-69-1)			X	ND (MDL = 0.50)	ND <0.0009					1	µg/l	ton	ND (MDL = 0.50)	ND <0.0009	1
20P. PCB-1221 (11104-28-2)			X	ND (MDL = 0.50)	ND <0.0009					1	µg/l	ton	ND (MDL = 0.50)	ND <0.0009	1
21P. PCB-1232 (11141-16-5)			X	ND (MDL = 0.50)	ND <0.0009					1	µg/l	ton	ND (MDL = 0.50)	ND <0.0009	1
22P. PCB-1248 (12672-29-6)			X	ND (MDL = 0.50)	ND <0.0009					1	µg/l	ton	ND (MDL = 0.50)	ND <0.0009	1
23P. PCB-1260 (11096-82-5)			X	ND (MDL = 0.50)	ND <0.0009					1	µg/l	ton	ND (MDL = 0.50)	ND <0.0009	1
24P. PCB-1016 (12674-11-2)			X	ND (MDL = 0.50)	ND <0.0009					1	µg/l	ton	ND (MDL = 0.50)	ND <0.0009	1
25P. Toxaphene (8001-35-2)			X	ND (MDL = 0.180)	ND <0.0003					1	µg/l	ton	ND (MDL = 0.180)	ND <0.0003	1

Note: All data values taken from 2009, unless otherwise noted. Mass calculated using maximum daily flow from 2008 (428.2 mgd); nondetect (ND) mass calculations use method detection limit (MDL) as the concentration. "<" = nondetect

Appendix A

California Toxics Rule Priority Pollutants

Dynegy South Bay Power Plant
Appendix A
Monitoring Data of California Toxics Rule Priority Pollutants

All data reported below has been included in the attached USEPA Form 2C of the NPDES permit application for South Bay Power Plant. Additional historical monitoring data for the inlet (receiving water) and outfall S2 may be compiled upon request and provided to the SDRWQCB for the reasonable potential analysis and to calculate effluent limitations, if necessary.

Receiving Water - Inlet
Salinity (ppt): 36
pH (units): 7.98
Hardness ($CaCo_3$, mg/L): 9,600

Effluent - Outfall S2
pH (units): 7.99

TABLE 1. 40 CFR 131.380 - Priority Pollutants

	Inlet	*S2*
Compound	**Concentration (µg/L, unless noted)**	**Concentration (µg/L, unless noted)**
Antimony	<0.50	<0.50
Arsenic	1.9 J	3.2
Beryllium	<0.027	0.029 J
Cadmium	<0.040	<0.040
Chromium (III)	<0.43	<0.43
Chromium (VI)	<10	<10
Copper	3.1	3.1
Lead	0.28 J	0.27
Mercury	<0.0028	<0.0028
Nickel	1.3 J	1.2 J
Selenium	1.7 J	3.4 J
Silver	0.019 J	0.022 J
Thallium	0.291 J	0.0860 J
Zinc	7.6	7.6 J
Cyanide	<0.020	<0.020
Asbestos	<1.1 MFL	<1.1 MFL
2,3,7,8-TCDD (Dioxin)	<0.165 pg/L	<0.137 pg/L
Acrolein	<20	<20
Acrylonitrile	<10	<10
Benzene	<0.55	<0.55
Bromoform	<1.0	<1.0
Carbon Tetrachloride	<1.0	<1.0
Chlorobenzene	<0.50	<0.50
Chlorodibromomethane	<0.070	<0.070
Chloroethane	<0.77	<0.77
2-Chloroethylvinyl Ether	<1.1	<1.1
Chloroform	<0.96	<0.96
Dichlorobromomethane	<1.1	<1.1
1,1-Dichloroethane	<0.77	<0.77
1,2-Dichloroethane	<1.3	<1.3
1,1-Dichloroethylene	<0.77	<0.77
1,2-Dichloropropane	<0.89	<0.89
1,3-Dichloropropylene	<0.96	<0.96
Ethylbenzene	<0.58	<0.58

Dynegy South Bay Power Plant *Table 1*

Appendix A

Monitoring Data of California Toxics Rule Priority Pollutants

Compound	*Inlet* Concentration (µg/L, unless noted)	*S2* Concentration (µg/L, unless noted)
Methyl Bromide	<3.0	<3.0
Methyl Chloride	<0.77	<0.77
Methylene Chloride	<15	<15
1,1,2,2-Tetrachloroethane	<2.6	<2.6
Tetrachloroetheylene	<1.2	<1.2
Toluene	<1.2	<1.2
1,2-t-Dichloroethylene	<1.6	<1.6
1,1,1-Trichloroethane	<0.74	<0.74
1,1,2-Trichloroethane	<1.2	<1.2
Trichloroethylene	<1.1	<1.1
Vinyl Chloride	<2.7	<2.7
2-Chlorophenol	<1.01	<1.01
2,4-Dichlorophenol	<1.26	<1.26
2,4-Dimehtylphenol	<2.00	<2.00
2-Methyl-4,6-Dinitrophenol	<0.900	<0.900
2,4-Dinitrophenol	<1.02	<1.02
2-Nitrophenol	<1.05	<1.05
4-Nitrophenol	<3.41	<3.41
3-Methyl-4-Chlorophenol	<5.00	<5.00
Pentachlorophenol	<0.870	<0.870
Phenol	<1.00	<1.00
2,4,6-Trichlorophenol	<1.40	<1.40
Acenaphthene	<1.00	<1.00
Acenaphthylene	<1.44	<1.44
Anthracene	<1.56	<1.56
Benzidine	<2.30	<2.30
Benzo(a)Anthracene	<0.650	<0.650
Benzo(a)Pyrene	<0.600	<0.600
Benzo(b)Fluoranthene	<0.870	<0.870
Benzo(ghi)Perylene	<0.580	<0.580
Benzo(k)luoranthene	<0.640	<0.640
Bis(2-Chloroethoxy)Methane	<1.49	<1.49
Bis(2-Chloroethyl)Ether	<1.00	<1.00
Bis(2-Chloroisopropyl)Ether	<1.31	<1.31
Bis(2-Ethylhexyl)Phthalate	<5.00	<5.00
4-Bromophenyl Phenyl Ether	<1.91	<1.91
Butylbenzyl Phthalate	<0.790	<0.790
2-Chloronaphthalene	<1.54	<1.54
4-Chlorophenyl Phenyl Ether	<1.83	<1.83
Chrysene	<0.620	<0.620
Dibenzo(a,h)Anthracene	<0.690	<0.690
1,2-Dichlorobenzene	<0.990	<0.990
1,3-Dichlorobenzene	<1.00	<1.00
1,4-Dichlorobenzene	<0.980	<0.980
3,3'-Dichlorobenzidine	<5.00	<5.00
Diethyl Phthalate	<1.95	<1.95
Dimethyl Phthalate	<2.00	<2.00
Di-n-Butyl Phthalate	<1.44	<1.44

Dynegy South Bay Power Plant
Appendix A
Monitoring Data of California Toxics Rule Priority Pollutants

Compound	*Inlet* Concentration (µg/L, unless noted)	*S2* Concentration (µg/L, unless noted)
2,4-Dinitrotoluene	<1.60	<1.60
Di-n-Octyl Phthalate	<0.760	<0.760
1,2-Diphenylhydrazine	<0.800	<0.800
Fluoranthene	<0.740	<0.740
Fluorene	<2.24	<2.24
Hexachlorobenzene	<1.00	<1.00
Hexachlorobutadiene	<1.00	<1.00
Hexachlorocyclopentadiene	<0.720	<0.720
Hexachloroethane	<1.00	<1.00
Indeno(1,2,3-cd) Pyrene	<0.620	<0.620
Isophorone	<1.00	<1.00
Naphthalene	<1.00	<1.00
Nitrobenzene	<1.00	<1.00
N-Nitrosodimethylamine	<5.00	<5.00
N-Nitrosodi-n-Propylamine	<1.45	<1.45
N-Nitrosodiphenylamine	<0.500	<0.500
Chlordane	<0.100	<0.100
Phenanthrene	<1.80	<1.80
Pyrene	<0.850	<0.850
1,2,4-Trichlorobenzene	<1.11	<1.11
Aldrin	<0.0100	<0.0100
Alpha-BHC	0.0159 J	0.0172 J
beta-BHC	<0.00700	<0.00700
gamma-BHC	<0.00600	<0.00600
delta-BHC	<0.0100	<0.0100
4,4'-DDT	<0.0100	<0.0100
4,4'-DDE	<0.00400	<0.00400
4,4'-DDD	<0.00500	<0.00500
Dieldrin	<0.00700	<0.00700
alpha-Endosulfan	*<0.00700*	<0.00700
beta-Endosulfan	<0.00400	<0.00400
Endosulfan Sulfate	<0.00500	<0.00500
Endrin	<0.0100	<0.0100
Endrin Aldehyde	<0.0100	<0.0100
Heptachlor	<0.00600	<0.00600
Heptachlor Epoxide	<0.00400	<0.00400
PCBs	<0.50	<0.50
Toxaphene	<0.180	<0.180

< = nondetect, less than MDL
J = Detected but below the Reporting Limit, result is an estimated concentration.
MFL = millions of fibers per liter
pg/L = picograms per liter
µg/L = micrograms per liter

Appendix A
Monitoring Data of California Toxics Rule Priority Pollutants

All data reported below has been included in the attached USEPA Form 2C of the NPDES permit application for South Bay Power Plant with the exception of chromium VI, dioxins/furans congeners and TEQs. Additional historical monitoring data for the inlet (receiving water) and outfall S2 may be compiled upon request and provided to the SDRWQCB for the reasonable potential analysis and to calculate effluent limitations, if necessary.

Discharger: Dynegy South Bay, LLC
Contact Name: Leonard J. Cigainero
Phone Number: 619-498-5384
Sample ID: 0901029-02, 0903019-05
Sample Location: S2
Inlet pH (units): 7.98
Inlet Salinity (ppt): 36

Name of Laboratory: San Diego Gas & Electric
Laboratory Contact: Christopher Q. Dong
Phone Number: 619-260-5747
*San Diego Gas & Electric subcontracted dioxins/furans and cyanide analyses to third-party laboratories.

Name of Constituent	Date Sample Collected	Date Sample Analyzed	USEPA Method Used	Analytical Results (µg/L)	MDL (µg/L)	RL (µg/L)	Comments
1,1,1 Trichloroethane	3/4/2009	3/6/2009	624	ND	0.74	3.8	
1,1,2 Trichloroethane	3/4/2009	3/6/2009	624	ND	1.2	5.0	
1,1,2,2 Tetrachloroethane	3/4/2009	3/6/2009	624	ND	2.6	6.9	
1,2 Dichlorobenzene (volatile)	3/4/2009	3/6/2009	624	ND	0.18	1.0	
1,2 Dichloroethane	3/4/2009	3/6/2009	624	ND	1.3	2.8	
1,2 Dichloropropane	3/4/2009	3/6/2009	624	ND	0.89	6.0	
1,3 Dichlorobenzene (volatile)	3/4/2009	3/6/2009	624	ND	0.67	1.0	
1,3 Dichloropropene (volatile)	3/4/2009	3/6/2009	624	ND	1.2	5.0	
1,4 Dichlorobenzene (volatile)	3/4/2009	3/6/2009	624	ND	0.12	1.0	
Acrolein	3/4/2009	3/6/2009	624	ND	20	20	
Acrylonitrile	3/4/2009	3/6/2009	624	ND	10	20	
Benzene	3/4/2009	3/6/2009	624	ND	0.55	4.4	
Bromoform	3/4/2009	3/6/2009	624	ND	1.0	4.7	
Bromomethane	3/4/2009	3/6/2009	624	ND	3.0	5.0	
Carbon Tetrachloride	3/4/2009	3/6/2009	624	ND	1.0	2.8	
VOLATILE POLLUTANTS							
Chlorobenzene	3/4/2009	3/6/2009	624	ND	0.50	6.0	
Chlorodibromo-methane	3/4/2009	3/6/2009	624	ND	0.070	3.1	
Chloroethane	3/4/2009	3/6/2009	624	ND	0.77	5.0	
Chloroform	3/4/2009	3/6/2009	624	ND	0.96	1.6	
Chloromethane	3/4/2009	3/6/2009	624	ND	0.77	5.0	
Dichlorobromo-methane	3/4/2009	3/6/2009	624	ND	1.1	2.2	
Dichloromethane	3/4/2009	3/6/2009	624	ND	15	15	
Ethylbenzene	3/4/2009	3/6/2009	624	ND	0.58	0.72	
Tetrachloroethene	3/4/2009	3/6/2009	624	ND	1.2	4.1	
Toluene	3/4/2009	3/6/2009	624	ND	1.2	6.0	
Trans-1,2 Dichloroethylene	3/4/2009	3/6/2009	624	ND	1.6	1.6	
Trichloroethene	3/4/2009	3/6/2009	624	ND	1.1	1.9	
Vinyl Chloride	3/4/2009	3/6/2009	624	ND	2.7	5.0	
SEMI – VOLATILE POLLUTANTS							
1,2 Benzanthracene	1/7/2009	1/13/2009	8270C/625	ND	0.650	10.0	
1,2 Dichlorobenzene (Semivolatile)	1/7/2009	1/13/2009	8270C/625	ND	0.990	2.00	

Appendix A
Monitoring Data of California Toxics Rule Priority Pollutants

Name of Constituent	Date Sample Collected	Date Sample Analyzed	USEPA Method Used	Analytical Results (µg/L)	MDL (µg/L)	RL (µg/L)	Comments
1,2 Diphenylhydrazine (as Azobenzene)	1/7/2009	1/13/2009	8270C/625	ND	0.800	10.0	
1,2,4 Trichlorobenzene	1/7/2009	1/13/2009	8270C/625	ND	1.11	5.00	
1,3 Dichlorobenzene (Semivolatile)	1/7/2009	1/13/2009	8270C/625	ND	1.0	1.0	
1,4 Dichlorobenzene (Semivolatile)	1/7/2009	1/13/2009	8270C/625	ND	0.980	1.00	
2 Chlorophenol	1/7/2009	1/13/2009	8270C/625	ND	1.01	5.00	
2,4 Dichlorophenol	1/7/2009	1/13/2009	8270C/625	ND	1.26	5.00	
2,4 Dimethylphenol	1/7/2009	1/13/2009	8270C/625	ND	2.00	2.00	
2,4 Dinitrophenol	1/7/2009	1/13/2009	8270C/625	ND	1.02	5.00	
2,4 Dinitrotoluene	1/7/2009	1/13/2009	8270C/625	ND	1.60	5.00	
2,4,6 Trichlorophenol	1/7/2009	1/13/2009	8270C/625	ND	1.40	10.0	
2,6 Dinitrotoluene	1/7/2009	1/13/2009	8270C/625	ND	1.75	10.0	
2-Nitrophenol	1/7/2009	1/13/2009	8270C/625	ND	1.05	10.0	
2-Chloroethyl vinyl ether	3/4/2009	3/6/2009	624	ND	1.1	10	
2-Chloronaphthalene	1/7/2009	1/13/2009	8270C/625	ND	1.54	10.0	
3,3' Dichlorobenzidine	1/7/2009	1/13/2009	8270C/625	ND	5.00	5.00	
3,4 Benzofluoranthene	1/7/2009	1/13/2009	8270C/625	ND	0.870	10.0	
4 Chloro-3-methylphenol	1/7/2009	1/13/2009	8270C/625	ND	5.00	5.00	
4,6 Dinitro-2-methylphenol	1/7/2009	1/13/2009	8270C/625	ND	0.900	5.00	
4-Nitrophenol	1/7/2009	1/13/2009	8270C/625	ND	3.41	10.0	
4-Bromophenyl phenyl ether	1/7/2009	1/13/2009	8270C/625	ND	1.91	5.00	
4-Chlorophenyl phenyl ether	1/7/2009	1/13/2009	8270C/625	ND	1.83	5.00	
Acenaphthene	1/7/2009	1/13/2009	8270C/625	ND	1.00	1.00	
Acenaphthylene	1/7/2009	1/13/2009	8270C/625	ND	1.44	10.0	
Anthracene	1/7/2009	1/13/2009	8270C/625	ND	1.56	10.0	
Benzidine	1/7/2009	1/13/2009	8270C/625	ND	2.30	10.0	
Benzo (a) pyrene	1/7/2009	1/13/2009	8270C/625	ND	0.600	10.0	
Benzo (g,h,i) perylene	1/7/2009	1/13/2009	8270C/625	ND	0.580	5.00	
Benzo (k) fluoranthene	1/7/2009	1/13/2009	8270C/625	ND	0.640	10.0	
bis 2-(Chloroethoxy methane)	1/7/2009	1/13/2009	8270C/625	ND	1.49	5.00	
bis(2-Chloroethyl) ether	1/7/2009	1/13/2009	8270C/625	ND	1.00	1.00	
Bis(2-Chloroisopropyl) ether	1/7/2009	1/13/2009	8270C/625	ND	1.31	2.00	
Bis(2-Ethylhexyl) phthalate	1/7/2009	1/13/2009	8270C/625	ND	5.00	5.00	
Butyl benzyl phthalate	1/7/2009	1/13/2009	8270C/625	ND	0.790	10.0	
Chrysene	1/7/2009	1/13/2009	8270C/625	ND	0.620	10.0	
di-n-Butyl phthalate	1/7/2009	1/13/2009	8270C/625	ND	1.44	10.0	
di-n-Octyl phthalate	1/7/2009	1/13/2009	8270C/625	ND	0.760	10.0	
Dibenzo(a,h)-anthracene	1/7/2009	1/13/2009	8270C/625	ND	0.690	10.0	
Diethyl phthalate	1/7/2009	1/13/2009	8270C/625	ND	1.95	2.00	
Dimethyl phthalate	1/7/2009	1/13/2009	8270C/625	ND	2.00	2.00	
Fluoranthene	1/7/2009	1/13/2009	8270C/625	ND	0.740	1.00	
Fluorene	1/7/2009	1/13/2009	8270C/625	ND	2.24	10.0	
Hexachloro-cyclopentadiene	1/7/2009	1/13/2009	8270C/625	ND	0.720	5.00	
Hexachlorobenzene	1/7/2009	1/13/2009	8270C/625	ND	1.00	1.00	
Hexachlorobutadiene	1/7/2009	1/13/2009	8270C/625	ND	1.00	1.00	
Hexachloroethane	1/7/2009	1/13/2009	8270C/625	ND	1.00	1.00	
Indeno(1,2,3,cd)-pyrene	1/7/2009	1/13/2009	8270C/625	ND	0.620	10.0	

Appendix A
Monitoring Data of California Toxics Rule Priority Pollutants

Name of Constituent	Date Sample Collected	Date Sample Analyzed	USEPA Method Used	Analytical Results (µg/L)	MDL (µg/L)	RL (µg/L)	Comments
Isophorone	1/7/2009	1/13/2009	8270C/625	ND	1.00	1.00	
N-Nitroso diphenyl amine	1/7/2009	1/13/2009	8270C/625	ND	0.500	10.0	
N-Nitroso-dimethyl amine	1/7/2009	1/13/2009	8270C/625	ND	5.00	5.00	
N-Nitroso-di n-propyl amine	1/7/2009	1/13/2009	8270C/625	ND	1.45	5.00	
Naphthalene	1/7/2009	1/13/2009	8270C/625	ND	1.00	1.00	
Nitrobenzene	1/7/2009	1/13/2009	8270C/625	ND	1.00	1.00	
Pentachlorophenol	1/7/2009	1/13/2009	8270C/625	ND	0.870	5.00	
Phenanthrene	1/7/2009	1/13/2009	8270C/625	ND	1.80	5.00	
Phenol	1/7/2009	1/13/2009	8270C/625	ND	1.00	1.00	
Pyrene	1/7/2009	1/13/2009	8270C/625	ND	0.850	10.0	
INORGANICS							
Antimony	1/7/2009	1/20/2009	200.8	ND	0.50	0.50	
Arsenic	1/7/2009	1/20/2009	200.8	3.2	0.51	2.0	
Beryllium	1/7/2009	1/16/2009	200.8	0.029	0.027	1.0	J
Cadmium	1/7/2009	1/13/2009	200.8	ND	0.040	0.25	
Chromium (total)	1/7/2009	1/16/2009	200.8	ND	0.43	0.50	
Chromium VI	1/7/2009	1/7/2009	SM 3500-Cr B	ND		10	
Copper	1/7/2009	1/13/2009	200.8	3.1	0.069	0.50	
Cyanide	1/7/2009	1/9/2009	SM 4500-CN E	ND	0.00002	0.00005	
Lead	1/7/2009	1/13/2009	200.8	0.27	0.036	0.50	J
Mercury	1/7/2009	1/9/2009	245.1	ND	0.0028	0.20	
Nickel	1/7/2009	1/20/2009	200.8	1.2	0.32	5.0	J
Selenium	1/7/2009	1/20/2009	200.8	3.4	0.54	5.0	J
Silver	1/7/2009	1/9/2009	200.8	0.022	0.017	1.0	J
Thallium	1/7/2009	1/16/2009	200.8	0.0860	0.0548	1.00	J
Zinc	1/7/2009	1/20/2009	200.8	7.6	0.62	10	J
PESTICIDES							
4,4'-DDD	1/7/2009	1/9/2009	8081A/608	ND	0.00500	0.0500	
4,4'-DDE	1/7/2009	1/9/2009	8081A/608	ND	0.00400	0.0500	
4,4'-DDT	1/7/2009	1/9/2009	8081A/608	ND	0.0100	0.0100	
a-Endosulfan	1/7/2009	1/9/2009	8081A/608	ND	0.00700	0.0200	
a-Hexachloro-cyclohexane	1/7/2009	1/9/2009	8081A/608	0.0172	0.00800	0.0500	J
Aldrin	1/7/2009	1/9/2009	8081A/608	ND	0.0100	0.0100	
b-Endosulfan	1/7/2009	1/9/2009	8081A/608	ND	0.00400	0.0100	
b-Hexachloro-cyclohexane	1/7/2009	1/9/2009	8081A/608	ND	0.00700	0.0100	
Chlordane	1/7/2009	1/9/2009	8081A/608	ND	0.0100	0.0100	
d-Hexachloro-cyclohexane	1/7/2009	1/9/2009	8081A/608	ND	0.0100	0.0100	
Dieldrin	1/7/2009	1/9/2009	8081A/608	ND	0.00700	0.0100	
Endosulfan Sulfate	1/7/2009	1/9/2009	8081A/608	ND	0.00500	0.0500	
Endrin	1/7/2009	1/9/2009	8081A/608	ND	0.0100	0.0100	
Endrin Aldehyde	1/7/2009	1/9/2009	8081A/608	ND	0.0100	0.0100	
Heptachlor	1/7/2009	1/9/2009	8081A/608	ND	0.00600	0.0100	
Heptachlor Epoxide	1/7/2009	1/9/2009	8081A/608	ND	0.00400	0.0100	
Lindane (g-Hexachloro-cyclohexane	1/7/2009	1/9/2009	8081A/608	ND	0.00600	0.0100	
PCB 1016	1/7/2009	1/9/2009	8082/608	ND	0.50	0.50	
PCB 1221	1/7/2009	1/9/2009	8082/608	ND	0.50	0.50	
PCB 1232	1/7/2009	1/9/2009	8082/608	ND	0.50	0.50	

Name of Constituent	Date Sample Collected	Date Sample Analyzed	USEPA Method Used	Analytical Results (µg/L)	MDL (µg/L)	RL (µg/L)	Comments
PCB 1242	1/7/2009	1/9/2009	8082/608	ND	0.50	0.50	
PCB 1248	1/7/2009	1/9/2009	8082/608	ND	0.50	0.50	
PCB 1254	1/7/2009	1/9/2009	8082/608	ND	0.50	0.50	
PCB 1260	1/7/2009	1/9/2009	8082/608	ND	0.50	0.50	
Toxaphene	1/7/2009	1/9/2009	8081A/608	ND	0.180	1.00	
DIOXINS/FURANS							
Congener	Date Sample Collected	Date Sample Analyzed	USEPA Method Used	Analytical Results (pg/L)	DL (pg/L)	TEF	TEQ (pg/L)	Comments
2,3,7,8-TetraCDD	1/7/2009	1/20/2009	1613	ND	0.137	1	-	
1,2,3,7,8-PentaCDD	1/7/2009	1/20/2009	1613	ND	0.257	1.0	-	
1,2,3,4,7,8-HexaCDD	1/7/2009	1/20/2009	1613	ND	0.368	0.1	-	
1,2,3,6,7,8-HexaCDD	1/7/2009	1/20/2009	1613	ND	0.373	0.1	-	
1,2,3,7,8,9-HexaCDD	1/7/2009	1/20/2009	1613	ND	0.346	0.1	-	
1,2,3,4,6,7,8-HeptaCDD	1/7/2009	1/20/2009	1613	2.11		0.01	0.0211	J
OctaCDD	1/7/2009	1/20/2009	1613	8.43		0.0001	0.000843	J
2,3,7,8-TetraCDF	1/7/2009	1/20/2009	1613	ND	0.147	0.1	-	
1,2,3,7,8-PentaCDF	1/7/2009	1/20/2009	1613	ND	0.132	0.05	-	
2,3,4,7,8-PentaCDF	1/7/2009	1/20/2009	1613	ND	0.143	0.5	-	
1,2,3,4,7,8-HexaCDF	1/7/2009	1/20/2009	1613	ND	0.216	0.1	-	
1,2,3,6,7,8-HexaCDF	1/7/2009	1/20/2009	1613	ND	0.224	0.1	-	
1,2,3,7,8,9-HexaCDF	1/7/2009	1/20/2009	1613	ND	0.320	0.1	-	
2,3,4,6,7,8-HexaCDF	1/7/2009	1/20/2009	1613	ND	0.258	0.1	-	
1,2,3,4,6,7,8-HeptaCDF	1/7/2009	1/20/2009	1613	ND	0.357	0.01	-	
1,2,3,4,7,8,9-HeptaCDF	1/7/2009	1/20/2009	1613	ND	0.363	0.01	-	
OctaCDF	1/7/2009	1/20/2009	1613	2.86		0.0001	0.000286	J
Sum of TEQ	-	-	-	-	-	-	0.02223	

J = Detected but below the Reporting Limit, result is an estimated concentration.
ND = nondetect, less than Method Detection Limit
pg/L = picograms per liter
µg/L = micrograms per liter
TEQ based on 1997 WHO TEFs

Storm Water Pollution Prevention Plan

South Bay Power Plant
990 Bay Boulevard
Chula Vista, CA 91911

WDID# 937I015022

February, 2009

DYNEGY

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1.0 CERTIFICATION STATEMENT (SECTIONS C.9.b AND C.10)

"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 ensure 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."

Signature: _____

Date: _____

Printed Name: Leonard J. Cigainero

Title: Plant Manager

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2.0 INTRODUCTION

This Storm Water Pollution Prevention Plan (SWPPP) has been prepared for the South Bay Power Plant (SBPP), located at 990 Bay Boulevard Chula Vista, California (Figure 1). This SWPPP is designed to meet the requirements of the State Water Resources Control Board (SWRCB) Water Quality Order No. 97-03-DWQ National Pollutant Discharge Elimination System (NPDES) General Permit No. CAS000001, *Waste Discharge Requirements for Discharges of Storm Water Associated with Industrial Activities Excluding Construction Activities*, adopted in 1997 (General Permit) (Appendix A).

General Permit citations that are associated with the specific requirements, prohibitions, and provisions of the General Permit are included throughout this SWPPP. The inclusion of these citations is intended to provide quick reference to the General Permit. The citations can be found in parenthesis alongside individual section headings of this SWPPP.

2.1 OBJECTIVES (SECTION A.2)

The objectives of this SWPPP are (1) to assist with identification of potential pollution sources that may affect storm water quality and authorized non–storm water discharges, and (2) to describe and ensure the implementation of best management practices (BMPs) to reduce or prevent pollutants in industrial storm water discharges and authorized non–storm water discharges. This SWPPP emphasizes the implementation of BMPs appropriate for the various types of industrial activities and pollutant sources at the facility.

2.2 STORM WATER POLLUTION PREVENTION TEAM (SECTION A.3.a)

The members of SBPP Storm Water Pollution Prevention Team (Storm Water Team) responsible for developing, implementing, and revising this SWPPP are listed in Table 2-1.

Table 2-1
SBPP Storm Water Pollution Prevention Team

Name	Title	Phone Number
Tom Liebst	Senior Environmental Professional	(619) 498-5223 (Direct) (619) 250-0434 (Cell)
Jim Nylander	Senior Engineer	(619) 498-5340 (Direct) (619) 250-0392 (Cell)
Roger Davis	Power Plant Technician	(619) 250-0435 (Cell)
Leonard Cigainero	Plant Manager	(619) 498-5384 (Direct) (619) 250-0411 (Cell)

The Storm Water Team will serve as an informational resource for storm water drainage issues at SBPP. The Storm Water Team will also develop a training and education program for SBPP personnel which addresses the legal, operational, and technical requirements for managing storm water and pollutants associated with SBPP operations.

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LEGEND

POWER PLANT FACILITY BOUNDARY

STORM WATER OUTFALL

0 1,000 2,000

SCALE IN FEET

FIGURE 1 - LOCATION MAP

STORM WATER POLLUTION PREVENTION PLAN

PREPARED BY:

TETRA TECH, INC

SOUTH BAY POWER PLANT

CHULA VISTA, CA

JOB NO. T23359

DESIGNED BY

DRAWN BY A. KANOLD

PROJECT MGR.

CHECKED BY A. POWER

CHECKED BY T. TRINGALI

APPROVED BY

APPROVED BY

DATE 01-23-09

DRAWING NO. 1

SHEET OF

REV SHEET OF

CADD NO.: SB SWPPP FIGURES.DWG

The Storm Water Team will meet on an as-needed basis to review this SWPPP and BMP performance and site inspection reports, to identify corrective actions, and to assess the need for revisions to the SWPPP. In summary, the Storm Water Team is responsible for all aspects of the SWPPP that include:

- Assessing the effectiveness of BMPs;
- Identifying hazardous materials and potential spill sources;
- Implementing and/or managing the installation of BMPs to address pollution sources;
- Reviewing storm water system inspection reports; erosion, spill or other environmental incidents affecting or related to storm runoff; and implementing any changes to the SWPPP;
- Overseeing spill cleanup and notifying proper authorities;
- Developing SWPPP inspection and record-keeping procedures;
- Developing reporting procedures; and
- Establishing SWPPP training for facility personnel.

2.3 EXISTING FACILITY PLANS (SECTION A.3.b)

Because certain hazardous materials are stored at SBPP in quantities/volumes above state and federal thresholds, the plant maintains a Hazardous Materials Business Plan (Business Plan) pursuant to Title 19 of the California Code of Regulations, Division 2, Chapter 4. The San Diego County Department of Environmental Health is the designated Certified Unified Program Agency (CUPA) and is responsible for administering and enforcing compliance with the above cited regulations.

The SBPP Business Plan contains the location and inventory of hazardous materials stored on site above reporting thresholds while the Facility Emergency Plan (FEP) is the primary emergency response document for the facility and contains emergency response procedures, notification requirements, and emergency resource information required by various regulatory programs.

- The *YELLOW TAB* section of the FEP provides procedures and notification requirement for dealing with hazardous material incidents,
- The *RED TAB* section contains information for responding to manmade and natural disasters (e.g., fires, earthquakes, floods, bomb threats etc.),
- The *ORANGE TAB* section discusses implementation of the Incident Command System under which facility response personnel are trained, and
- The *BLUE TAB* section lists key site response personnel, emergency response resources and agencies.

A Spill Prevention, Control, and Countermeasures (SPCC) Plan is maintained on site and implemented in accordance with U.S. Code of Federal Regulations, Title 40, Part 112 (40 CFR 112), *Oil Pollution*

Prevention. This plan addresses the handling of oil and oil-related products stored in containers that have the potential to discharge oil into or upon Waters of the United States.

2.4 SWPPP RETENTION AND AVAILABILITY (SECTIONS A.10.a AND A.10.f)

This SWPPP is retained on-site and will be made available upon request of a representative of the San Diego Regional Water Quality Control Board (SDRWQCB) and/or local storm water management agency (local agency). Additionally, a copy of the General Permit is retained at the facility, in this SWPPP (Appendix A), and will be available at all times to the appropriate facility personnel and to SDRWQCB and local agency inspectors.

2.5 SWPPP REVISIONS (SECTIONS A.10.b, A.10.c, A.10.d, AND A.10.e)

This SWPPP will be revised, as appropriate, and implemented prior to changes in industrial activities which (i) may significantly increase the quantities of pollutants in storm water discharge, (ii) cause a new area of industrial activity at the facility to be exposed to storm water, or (iii) begin an industrial activity which would introduce a new pollutant source at the facility. If it is determined that this SWPPP is in violation of applicable General Permit requirements, the SWPPP will be revised and implemented within 90 days of the determination. SWPPP amendments will be recorded on the Storm Water Pollution Prevention Plan Amendment Log in Appendix B.

In the event of planned changes at SBPP which could significantly change the nature or increase the quantity of pollutants discharged, advance notice will be provided to the SDRWQCB and local storm water management agency.

2.6 EMERGENCY PERSONNEL CONTACTS AND PROCEDURES

For emergency storm water issues refer to emergency response procedures and notification requirements contained in SBPP FEP (Volume II, Business Plan/Contingency Plan).

- Spill Response Procedures ⇒ ***YELLOW TAB***
- Storm Drain Diagram ⇒ ***GREEN TAB***
- Teams & Contacts ⇒ ***BLUE TAB***

For non-emergency storm water issues, contact a member of the Storm Water Team (see Table 2-1).

3.0 SITE INFORMATION

3.1 FACILITY DESCRIPTION (A.2 AND A.3)

The South Bay Power Plant is located at 990 Bay Boulevard, in Chula Vista, California, within San Diego County. Dynegy South Bay, LLC leases the SBPP site from the Port of San Diego. The plant is adjacent to San Diego Bay and is bisected in an east-west direction by Telegraph Creek. Land uses surrounding the facility are predominately industrial.

SBPP is a 704-megawatt fossil fuel-fired steam electric generating facility occupying a 148.5-acre site, 18 percent of which is impermeable (Figure 2). The plant contains four steam-powered generating units and a small gas turbine generating unit, which is used infrequently for generating additional electricity during peak-demand periods. Natural gas or fuel oil (optional) is used to power the generating units (Units) and is currently delivered to two fuel storage tanks (Tanks 1 and 2) located on the southeastern portion of the property (South Tank Farm). With the exception of Tanks 1 and 2, tanks historically located in the South Tank Farm area and in the North Tank Farm area have been removed.

The North American Industry Classification System code for SBPP is 221112, Electric Power Generation. The Standard Industrial Classification Code is 4911, Electric Power Generation Plant.

On-site facilities include the following:

- Four fossil fuel-fired generating units;
- One 15-megawatt gas turbine generating unit;
- Two 5,000,000-gallon fuel oil tanks;
- One 100,000-gallon turbine (JP-5) fuel tank;
- Five main transformers and six auxiliary transformers;
- Main power plant building (generators within);
- 138-kilovolt switchyard;
- 69-kilovolt switchyard;
- Oil/water separator (OWS) system and waste water holding tanks (Waste Water Treatment Facility (WWTF);
- Eight cooling water intake structures with screens and pumps; channels designed for the intake and discharge of cooling water;
- Hazardous materials/waste building (90-day hazardous waste storage building);
- Warehouse and loading dock;
- Maintenance shops;
- Administration Building;

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LEGEND:

- BUILDING
- EARTHEN BERM
- DRAINAGE FLOW PATTERN
- K-1 STORM WATER SAMPLE POINT
- SECONDARY CONTAINMENT UNIT
- LOADING/UNLOADING AREA
- SBPP FACILITY BOUNDARY
- FENCELINE
- EDGE OF PAVEMENT
- RAILROAD
- GATE VALVE
- STORM DRAIN WITH DRAIN VALVE
- STORM DRAIN WITHOUT DRAIN VALVE
- WATERBODY BOUNDARY
- STORM WATER SUBCATCHMENT BOUNDARY
- OPEN CHANNEL FLOW VIA EARTHEN BERMS
- STORM SEWER
- SPILL LOCATION AND DATE

NORTH

0 160 320
SCALE IN FEET

FIGURE 2 - SITE MAP

STORM WATER POLLUTION PREVENTION PLAN

PREPARED BY:
TETRA TECH, INC

SOUTH BAY POWER PLANT
CHULA VISTA, CA

JOB NO.	T23359
DRAWING NO.	
DRAWN BY	A. KANOLD
CHECKED BY	
DESIGNED BY	A. POWER
APPROVED BY	T. TRINGALI
DRAWING NO.	
DRAWING NO.	
DATE	01-23-09
DRAWING NO.	2
SHEET	OF
SUP. SHEET	OF

CADD NO.: SB SWPPP FIGURES.DWG

- Office/Training Buildings;
- Material laydown areas (scrap and equipment storage); and
- Two 28,000-gallon ammonia storage tanks.

The railway spurs that enter the plant on the southeastern corner are abandoned.

3.2 FACILITY DRAINAGE

South Bay Power Plant is located in a coastal area with generally low topographic relief. The plant is located in a Federal Emergency Management Agency (FEMA) Zone X, which is located just outside of the 100-year flood plain, but is considered a rather moderate flood hazard area. The average annual rainfall in the area is approximately 9.9 inches (San Diego County Water Authority 2008).

Storm water controls at the SBPP include a system of storm drains, drop inlets, swales, valves, and grading that convey storm water runoff. The site is comprised of 12 subcatchments, called Basins A through L, which are described in Sections 3.2.1 through 3.2.12 (see Figure 2). Six outfalls (G-1, H-1, I-1, E-1, F-1, and K-1) discharge directly to San Diego Bay. Three outfalls (B-1, C-1, and D-1) discharge to Telegraph Creek, which discharges to San Diego Bay. Five outfalls, located within the tank farms on the north and south ends of the property, do not discharge as the associated drain valves are kept closed at all times. Area calculations for the SBPP were calculated from information provided in an AutoCAD-format topographic map prepared in December of 2004 by Duke Energy Corporation, the former SBPP owner/operator.

3.2.1 Subcatchment #1

Subcatchment #1 (Basin A) consists of approximately 19.1 acres, the majority of which is permeable. Basin A, formerly part of the North Tank Farm, currently consists of undeveloped land. Basin A is surrounded by an earthen berm with a locked drain valve and does not discharge off-site. Industrial activities are not performed in Basin A.

3.2.2 Subcatchment #2

Subcatchment #2 (Basin B) consists of approximately 7.5 acres, all of which is permeable. Basin B, also formerly part of the North Tank Farm, currently consists of undeveloped land. Industrial activities are not performed in this subcatchment. Storm water which does not infiltrate sheet flows to an outfall that discharges to Telegraph Creek. This outfall has no valve restricting flow.

3.2.3 Subcatchment #3

Subcatchment #3 (Basin C) consists of approximately 15 acres, of which 1 percent is impermeable. Basin C consists of the 69-kilovolt switchyard and undeveloped land. Basin C discharges, via outfall, to Telegraph Creek east (upstream) of the Basin D discharge point. The gate valve located at the discharge point is normally in the closed position.

3.2.4 Subcatchment #4

Subcatchment #4 (Basin D) consists of approximately 16.8 acres, of which 39 percent is impermeable. Basin D consists of the 138-kilovolt switchyard, a material laydown area, gas turbine, JP-5 fuel tank,

Main Power Plant Building, transformers, Administration Building, parking lot, Maintenance Shop #1, and warehouse loading dock. Basin D discharges, via outfall, to Telegraph Creek west (downstream) of the Basin C discharge point. A gate valve exists at the discharge point to Telegraph Creek.

3.2.5 Subcatchment #5

Subcatchment #5 (Basin E) consists of approximately 13 acres, of which 19 percent is impermeable. Basin E consists of the WWTF, sandblast booth, Hazardous Waste Storage Building, and undeveloped land. Basin E discharges, via outfall, to the Intake Channel (see Figure 2). A gate valve exists at the discharge point to the Intake Channel.

3.2.6 Subcatchment #6

Subcatchment #6 (Basin F) consists of approximately 16.5 acres, of which 18 percent is impermeable. Basin F consists of a material laydown area, ammonia storage tanks, office/training buildings, parking lot, and undeveloped land. Basin F discharges, via outfall, to the Discharge Channel (see Figure 2).

3.2.7 Subcatchment #7

Subcatchment #7 (Basin G) consists of approximately 0.8 acres, of which 100 percent is impermeable. In the subcatchment are Maintenance Shop #2 and concrete pad and Units 1 and 2 Water Intake Structures (see Figure 2). Basin G discharges, via outfall, to the Intake Channel. A gate valve exists at the discharge point to the Intake Channel.

3.2.8 Subcatchment #8

Subcatchment #8 (Basin H) consists of approximately 0.4 acres, of which 100 percent is impermeable. The sodium hypochlorite tank is located in the subcatchment and Water Intake Structure support is performed here. Basin H discharges, via outfall, to the Intake Channel.

3.2.9 Subcatchment #9

Subcatchment #9 (Basin I) consists of approximately 0.6 acres, of which 100 percent is impermeable. In the subcatchment are Units 3 and 4 Water Intake Structures (see Figure 2). Basin I discharges, via outfall, to the Intake Channel.

3.2.10 Subcatchment #10

Subcatchment #10 (Basin J) consists of approximately 9.5 acres, of which approximately 14 percent is impermeable. In the subcatchment is the South Tank Farm, comprised of Fuel Oil Tank #1 and #2, Former Tank #3, and Former Tank #7, which is currently used to dry seaweed and debris from the Water Intake Structure cleaning activities (see Figure 2). Basin J is enclosed by an earthen berm with locked drain valves. Basin J does not discharge off-site.

3.2.11 Subcatchment #11

Subcatchment #11 (Basin K) consists of approximately 1.1 acres along the southern perimeter of the site, of which 10 percent is impermeable. Basin K consists of an access road and undeveloped land. Basin K discharges to an open channel that discharges to San Diego Bay (see Figure 2). The open channel also receives runoff from adjacent properties.

3.2.12 Subcatchment #12

Subcatchment #12 (Basin L) consists of approximately 7.9 acres along the northeast perimeter of the site, of which 100 percent is permeable. Basin L contains an access road around Basin B and undeveloped land. Storm water which does not infiltrate sheet flows to the J Street Canal (see Figure 2).

3.3 HYDROLOGY

A number of tools were used to assess the quality and quantity of storm water runoff at SBPP, such as the determination of infiltration rates, runoff rates, and runoff volume. The site is located on approximately 148.5 acres of clay soils with very low infiltration rates (County of San Diego 2003).

The SBPP site consists of twelve subcatchments that convey storm water runoff to the eight outfall locations (Figure 2). The Rational Method[1] was used to determine expected peak discharge rates and respective runoff volumes for the 2- and 25-year design storms from Basins C, D, E, F, and K. The peak discharge rates and total runoff volumes were not determined for basins A, B, G, H, I J, and L due to the fact: Basins A B, K and L consist of undeveloped land where no industrial processes are performed; Basins A and J are completely enclosed by earthen berms with locked drain valves and do not discharge off-site; and Basins G, H, and I are relatively small in size (approximately 0.75 and 1-acre each) and topographically flat.

The 2-year design storm is the typical, conservative design storm used to determine a site's runoff volume. Calculations were made following guidelines provided in the *San Diego County Hydrology Manual* (County of San Diego 2003). Factors used to determine runoff rates and volume (time of concentration, rainfall intensity, and runoff coefficients) are discussed in the following sections.

3.3.1 Time of Concentration

Time of concentration[2] (T_c) was calculated using table 3-2 and Figure 3-4 of the *San Diego County Hydrology Manual* (County of San Diego 2003). The time of concentration and design storm duration for each subcatchment is shown in Table 3-1.

Table 3-1
Time of Concentration for Subcatchment C, D, E, F, and K

Subcatchment (Basin)	Time of Concentration (minutes)
C	30
D	20
E	20
F	30
K	20

[1] The Rational Method is an algebraic formula: Q = ciA, where Q is the peak discharge (feet per second), *c* is the runoff coefficient, *i* is the rainfall intensity (inches per hour), and A is the drainage area (acres).

[2] Time of concentration is defined as *the time required for water to travel from the most distant point on the watershed to the watershed outlet* (Brooks *et al.* 2003). It used to determine the appropriate design rainfall intensity.

3.3.2 Rainfall Intensity

Rainfall intensity (i) data for the 2- and 25-year, 20- and 30-minute design storms were determined using Figure 3-3 of the *San Diego County Hydrology Manual* (County of San Diego 2003).

Table 3-2
Summary of Rainfall Data at SBPP

Recurrence Interval (years)	20-minute Rainfall Intensity (inches per hour)	30-minute Rainfall Intensity (inches per hour)
2	1.0	0.8
25	2.0	1.5

3.3.3 Runoff Coefficients

Composite runoff coefficients (c) were determined for each subcatchment based on the hydrologic soil group classification and percent impermeable area for each basin. This site is located on soils in Hydrologic soil group D, or soils with very slow infiltration rates, creating an increased potential for storm water runoff. Table 3-1 of the *San Diego County Hydrology Manual* (County of San Diego 2003) lists the runoff coefficients for each subcatchment.

Table 3-3
Runoff Coefficients for Subcatchment C, D, E, F, and K

Subcatchment (Basin)	Runoff Coefficient
C	0.35
D	0.46
E	0.46
F	0.57
K	0.41

3.3.4 Peak Discharge Rate and Total Runoff Volume

The peak discharge rates (Q) and total volume calculations were calculated for the discharge point of each subcatchment for the 2-year and 25-ear design storms. Peak discharge rate and total runoff volume were also determined using the Rational Method. Total runoff volume for the 2-year and 25-year, 24-hour storms was calculated using the total 24-hour precipitation depth of 1.7 inches and 3.3 inches, respectively, found in Appendix B of the *San Diego County Hydrology Manual* (County of San Diego 2003). The following tables show the results of these calculations for each subcatchment and design storm.

Table 3-4
Peak Discharge Rates and Total Volume Results for SBPP Subcatchments C, D, E, F, and K

Subcatchment (Basin)	**2-year Peak Discharge Rate (30-minute storm)** (cubic feet per second)	**2-year Total Runoff Volume (24-hour storm)** (acre-feet)	**25-year Peak Discharge Rate (30-minute storm)** (cubic feet per second)	**25-year Total Runoff Volume (24-hour storm)** (acre-feet)
C	4.2	0.7	7.9	1.4
D	7.7	1.1	15.5	2.1
E	6.0	0.8	12.0	1.6
F	7.5	1.3	14.1	2.6
K	0.5	0.1	0.9	0.1

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4.0 POTENTIAL POLLUTANT DESCRIPTION AND ASSESSMENT

This section identifies industrial activities, significant materials, and potential pollutant sources at SBPP that could contaminate storm water runoff. Additionally, this section discusses material handling and storage areas, dust and particulate generating activities, significant spills and leaks, authorized and unauthorized non–storm water discharges, and soil erosion.

4.1 SIGNIFICANT MATERIALS (SECTION A.5)

This section of the SBPP SWPPP presents the inventory of significant materials stored at the SBPP. For the purposes of storm water pollution prevention, significant materials are identified in 40 CFR 122.26(b)(12) as follows:

> Significant materials includes, but is not limited to: raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under section 101(14) of CERCLA; any chemical the facility is required to report pursuant to section 313 of Title III of SARA; fertilizers; pesticides; and waste products such as ashes, slag and sludge that have the potential to be released with storm water discharges.

The SBPP Business Plan contains an accurate, up-to-date inventory of chemicals and materials stored and handled at the SBPP. The SBPP Business Plan was developed pursuant to the requirements of California Code of Regulations Title 19 (19 CCR), Division 2, Chapter 4, Article 4, and was designed to provide emergency responders with accurate information as to the composition, location, and quantity of chemicals and products stored at the plant. Please see the Business Plan for product and chemical details.

The following is a summary of the products and chemicals contained in the Business Plan by category (Table 4-1).

Table 4-1
Products and Chemicals Stored and Handled at the SBPP

Category	Product/Chemical
Oil-based liquids:	• Fryquel hydraulic fluid (triphenyl phosphate) • Transformer mineral oil (non-polychlorinated biphenyl) • Paint • Diesel fuel #2 • Turbine fuel (JP-5) • Kerosene • Turbine oil • Shell Aero oil • Shell Diala oil • Mobile DTE oil • Fuel oil #6 • Lubricating grease • Asphalt • Used oil (OWS, spent lubricating oils)

Table 4-1, Continued
Products and Chemicals Stored and Handled at the SBPP

Category	Product/Chemical
Acids and bases:	• Sodium hypochlorite 15% • Sulfuric acid (wet-cell battery acid) • Aqueous ammonia (ammonium hydroxide) 29% • Nalco 8322 scale inhibitor (sodium hydroxide, sodium molybdate) • Nalco Eliminox oxygen scavenger/corrosion inhibitor (carbohydrazide) • Nalco 356 corrosion inhibitor (cyclohexylamine, morpholine)
Other:	• Ethylene glycol (fire fighting foam) • Skysol cleaning solvent • Asbestos-containing materials • Thinners and glues • Various hazardous wastes

4.2 INDUSTRIAL PROCESSES (SECTIONS A.6 AND A.7)

4.2.1 Vehicle and Equipment Fueling, Maintenance, and Parking

Vehicle fueling, washing, and maintenance are performed off-site. Equipment is maintained and/or repaired at the Maintenance Shop #1 located in Basin D and Maintenance Shop #2 located in Basin G. Outdoor equipment maintenance occurs on a concrete pad adjacent to Maintenance Shop #2 during dry weather only.

Vehicles are parked in parking lots located adjacent to the Administration Building in Basin D and the Office/Training Buildings in Basin E. The propane-fueled fork lift is parked west of the intake structures/warehouse in Basin D.

4.2.2 Sandblasting

Sandblasting is performed by a contractor within the Sandblast Booth, which is located near the Hazardous Materials Storage Building in Basin E. The building is completely enclosed and sealed and is equipped with air-emission control equipment. Sandblasting does not occur outdoors. Sandblast wastes are handled in accordance with hazardous waste regulations.

4.2.3 Waste Water Treatment Facility

Trenches and sumps within the plant discharge process water to waste water holding tanks. Waste water gravity flows into the OWS, which is located east of the intake structures in Basin E. Treated water flows into the discharge sump and is pumped to the sewer system in accordance with the requirements of the facility's wastewater discharge permit issued by the City of San Diego.

4.2.4 Main Power Plant Building

The Main Power Plant Building is located in Basin D and houses four steam-powered generating units and a small gas turbine generating unit. Boiler cleaning, hazardous materials unloading and storage, and hazardous waste loading occur indoors at this facility.

4.2.5 Switchyards

A 138-kilovolt switchyard is located in Basin D and a 69-kilovolt switchyard is split by Basins C and D. The switchyards border Telegraph Creek, south of the Former North Tank Farm, and consist entirely of permeable surface. Portions of the switchyard equipment are owned by Dynegy South Bay, LLC and portions are owned by San Diego Gas and Electric (SDG&E).

4.2.6 Lube Oil System

Lube oil systems provide cooled oil to major plant equipment bearings within the Main Power Plant Building in Basin D. Each Unit has a 2,000-gallon lube oil reservoir and filtration equipment, pumps, and piping sufficient for circulation to the equipment served. Lube oil is also stored in an 11,000-gallon storage tank in the Power Plant Building.

4.2.7 General Facility Maintenance

General facility maintenance conducted at SBPP includes painting, landscaping, rust removal, and anti-corrosion efforts. These activities are managed to eliminate any discharge of waste to the main storm water conveyance system.

SBPP uses a pest management contractor who applies pesticides to the exterior of buildings, parking areas, etc. on facility grounds. The contractor uses various termiticides and insecticides in accordance with manufacturers' specifications. The potential for contamination with storm water is considered minimal at this time due to existing storage and handling practices.

Painting, rust removal, and anti-corrosion efforts are on-going activities at SBPP. Materials are appropriately stored and handled. Applicable paints and chemicals are applied minimally to avoid overspray and drips.

4.2.8 Generating Units

Units 1, 2, 3, 4, and the Combustion Turbine are located in Basin D (Figure 2). Hazardous materials and wastes are unloaded, handled, and loaded at the Units such as aqueous ammonia, various oils, hydraulic fluid, scale inhibitor, corrosion inhibitor, oxygen scavenger, and waste oil. Sulfuric acid, aqueous ammonia, turbine lube oil, and other products are used for plant support. Hazardous liquids are stored according to the Business Plan. Liquid storage vessels are stored with secondary containment structures. Storm water collected within secondary containment structures is released according to procedures described in Section 5.1.9.1.

The boilers of Units 1, 2, 3, and 4 are cleaned infrequently. During this process, hazardous waste is generated and the wastes are removed by a contractor for off-site disposal; however, this activity is not expected to occur in the near future.

4.2.9 Water Intake Structures

The Water Intake Structures are located south of the Units along the intake channel in Basins G and I (Figure 2). The intake structures supply cooling water for the Units. The structures consist of pumps and screens. Sodium hypochlorite, used to control micro-biofouling in the condensers, is stored in a 7,000-gallon above-ground storage tank within a secondary containment berm. This tank is located adjacent to the intake structure in Basin H.

Byproduct materials (seaweed and debris) removed during cleaning of the intake structure screens is placed in Former Tank #7 Area for drying prior to off-site disposal. The area is surrounded by a several-foot-high earthen berm and the drain valve is this area always remains closed (i.e. there is no discharge).

4.2.10 Cooling Water System Cleaning Process Area

Tunnels used to transport cooling water from San Diego Bay to the cooling structures are periodically cleaned (Basins G, H, and I). All cleaning wastes are contained and disposed of off-site.

4.3 MATERIAL HANDLING AND STORAGE AREAS (SECTIONS A.6 AND A.7)

Material for site operation and maintenance is delivered to SBPP by truck. The main vehicle access gate is located at the east side of the property on Bay Boulevard. An emergency exit is located at the southeastern portion of the facility. Roads within the facility are used to transport materials to site-specific locations. Material loading and unloading activities are restricted to (1) locations where materials cannot enter the storm drain systems, or (2) locations with structural controls such as normally closed valves installed in the storm drain system to prevent accidental discharge of materials to surface water. Figure 2 shows the storm drain system including valves.

4.3.1 Warehouse

The Warehouse is located in Basin D. Loading and unloading of hazardous materials occurs at the facility loading dock on the west side of the building. The dock contains a truck bay equipped with a storm drain and valve that remains closed during loading and unloading activities. One drain valve key is used to open drain valves located throughout the facility except at this location, where a separate key used to ensure the valve is not accidentally opened.

4.3.2 Hazardous Waste Storage Building

The Hazardous Waste Storage Building is located in Basin E adjacent to the ammonia storage tanks in Basin F (see Figure 2). Hazardous wastes are loaded, unloaded, and stored in bays inside the building. The concrete floor is sloped away from the roll-up doors and is equipped with a sump. The storm drains northeast of the building are equipped with valves that remain in the closed position to capture spills and leaks if they occur.

4.3.3 Tank Farms

Historically, fuel oil Tanks 4, 5, and 6 were located within the North Tank Farm (Basins A and B) and Tanks 3 and 7 were located within the South Tank Farm (Basin J). These tanks were decommissioned and removed and the area was cleaned. Berms that enclosed the tanks are in place. Drain valves within the containment structures always remain closed; therefore, these areas do not discharge off-site.

Tanks 1 and 2 within the South Tank Farm in Basin J are currently operational and contain fuel oil #6. A 100,000-gallon turbine fuel tank (JP-5) is located adjacent to the gas turbine in Basin D. Fuel oil #6 and turbine fuel (JP-5) are delivered to the appropriate tanks via tanker truck and are respectively pumped via pipeline to the units or gas turbine.

4.3.4 Fuel Oil Additive Storage

Residual fuel oil additive is stored in a 6,000-gallon storage tank located southeast of Unit 4. The additive is injected to control stack exhaust gas pH, which reduces corrosion of the boiler firesides and the air preheaters.

4.3.5 Material Laydown Areas

Two material laydown areas exist at the SBPP. One material laydown area east of the JP-5 fuel tank in Basin D is used for storage of metal parts and non-liquid-filled materials. The other material laydown area is located in Basin F, east of the Ammonia Storage Facility and is used to store miscellaneous equipment.

4.3.6 Maintenance Shops

Equipment maintenance and repair is performed at Maintenance Shop #1, located south of the Administration Building in Basin D and Maintenance Shop #2, located east of the Warehouse in Basin G. Maintenance and welding are performed indoors and outdoors on the concrete pad adjacent to Maintenance Shop #2.

4.3.7 Refuse Containment and Storage Areas

Trash and recyclable materials are accumulated in storage bins west of the warehouse in Basin D (see Figure 2). Domestic waste water is discharged to an off-site sanitary sewer system. Universal waste is stored indoors at various accumulation points throughout the facility. Hazardous waste is accumulated at the Hazardous Materials Building in Basin E prior to off-site disposal (see Figure 2).

4.3.8 Transformer Areas

Transformers are located on the north side of the Power Building and are contained within secondary containment structures in Basin D (see Figure 2). The transformers contain dielectric oil that is periodically drained and recycled off-site.

4.3.9 Ammonia Storage Facility

The Ammonia Storage Facility is located in Basin F and to the east of the SBPP Intake and Discharge Channels (see Figure 2). Aqueous ammonia (ammonium hydroxide) is stored in two 28,000-gallon stainless steel tanks. The tanks are located aboveground and within secondary containment structures that are equipped with ammonia detection sensors. Aqueous ammonia is delivered to the site by tanker trucks and unloaded within a bermed area.

4.4 DUST AND PARTICULATE GENERATING ACTIVITIES (SECTIONS A.6 AND A.7)

Industrial activities that generate dust or particulates at SBPP include the power plant exhaust stacks, gas turbines, and maintenance activities. Applicable activities are permitted by the San Diego Air Pollution Control District (SDAPCD). Deposition of airborne particulates and dust occur within the facility's boundaries and generally follow a west-east distribution, which is consistent with onshore wind patterns typical of the area.

4.5 SIGNIFICANT SPILLS AND LEAKS (SECTIONS A.6 AND A.7)

Table 4-2 lists materials that have spilled or leaked in significant quantities at SBPP since April 17, 1994, including:

- Toxic chemicals as defined in 40 CFR, Part 302 and reported on U.S. Environmental Protection Agency (U.S. EPA) Form R, and
- Oil and hazardous substances in excess of reportable quantities, as defined in 40 CFR, Parts 110, 117, and 302.

The date of spill/leak, volume discharged, location of spill/leak, and remediation actions are also included.

Table 4-2
Summary of Materials That Have Spilled or Leaked in Significant Quantities since April 17, 1994

Date	Material Type	Reportable Quantity	Volume Discharged	Location	Action Taken
7/12/2001	Turbine oil	25 gallons	25 gallons	Gas Turbine	• The contaminated soil and rock were removed by a contractor and disposed of off-site.
5/8/2000	Service water	128 gallons	128 gallons	Unit 1 Service Water Heat Exchanger	• The unit was removed from service, eddy-current tested, and pressure tested with helium. • A tube leak was identified and repaired.
9/13/1994	Fuel oil	40 barrels	< 1 gallon	"East Loop" area in Basin E	• The oil was immediately contained and cleaned up by trained on-site personnel and a contractor. • The spill was caused by piping corrosion; therefore, the piping was emptied, cleaned, repaired, and tested.

4.6 NON–STORM WATER DISCHARGES (SECTIONS A.6 AND A.7)

The following non-storm water discharges are authorized by the General Permit, provided they do not contain significant quantities of pollutants and are in compliance with local agency ordinances and/or requirements:

- Fire hydrant flushing;
- Potable water sources, including potable water related to the operation, maintenance, or testing of potable water systems;
- Drinking fountain water;
- Atmospheric condensates including refrigeration, air conditioning, and compressor condensate;
- Irrigation drainage;
- Landscape watering;
- Springs;
- Groundwater;
- Foundation or footing drainage; and
- Sea water infiltration where the sea waters are discharged back into the sea water source.

Best management practices are included in this SWPPP to (1) prevent or reduce the contact of non-storm water discharges with significant materials or equipment and (2) minimize, to the extent practicable, the flow or volume of non-storm water discharges. The Monitoring and Reporting Program, described in Section 7.0, includes quarterly visual observations of each non-storm water discharge and its sources to ensure that BMPs are being implemented and are effective. Non-storm water discharges are reported annually within the General Permit required annual report. Discharges from firefighting activities are authorized by the General Permit and are not subject to these requirements.

Every effort is made to eliminate non–storm water discharges at SBPP. However, potential sources of authorized non–storm water discharges are as follows:

- All buildings are equipped with air conditioning units that may produce condensate.
- Landscaping is installed along the western perimeter between Telegraph Creek and the Intake Channel and around various buildings, which is maintained by a contractor. Although water conservation practices are implemented, small volumes of irrigation water may occasionally run off.
- Potable water is released during monthly fire line and potable water system testing. Line flushing also occurs after a water line is repaired.

4.7 SOIL EROSION (SECTIONS A.6 AND A.7)

The topography of the SBPP is essentially flat, and much of the site is permeable. Soil is exposed throughout the facility and some unpaved areas are covered with gravel. There are substantial unpaved areas located in Basins C, D, E, F, and L. Vegetation is routinely removed or killed throughout the site to allow equipment access, prevent fire, and for temporary storage of materials. Sources of sediment may include non-vegetated, exposed soil; bare drainage swales; construction and/or maintenance, such as earth moving activities; uncovered stockpiles; and wind blow-in.

Table 4-3
Significant Materials/Potential Pollutant Sources and Associated BMPs

Area	Activity	Pollutant Source	Pollutant	BMP
Roads, parking lots, Maintenance Shops	Vehicle and parking, equipment maintenance and parking	Spills, leaks, vehicle breaks, tracking from tires, maintenance debris	Oil, grease, vehicle and equipment fluids, metals, sediment	• Good Housekeeping • Vehicle and Equipment Fueling, Maintenance, and Washing • Preventative Maintenance • Spill Response • Material Handling and Storage • Employee Training • Inspections • Control Devices
Sandblast Building	Loading sandblast materials, unloading wastes	Spills	Abrasives, wet waste	• Good Housekeeping • Preventative Maintenance • Spill Response • Material Handling and Storage • Inspections • Overhead Coverage
Waste Water Treatment Facility	Oil and water separation, treatment	Equipment malfunction, overtopping	Industrial process water, used oil, sludge	• Good Housekeeping • Preventative Maintenance • Spill Response • Employee Training • Waste Handling/Recycling • Inspections • Overhead Coverage
Main Power Plant Building	Boiler cleaning; hazardous materials unloading and storage; hazardous waste loading	Equipment malfunction, spills, leaks	Metal residues, oils, hazardous materials, hazardous wastes	• Good Housekeeping • Preventative Maintenance • Spill Response • Employee Training • Inspections
Switchyards	Oil loading, unloading	Spills, leaks; exposed soil	Dielectric oils, sediment	• Spill Response • Employee Training • Inspections • Control Devices

Table 4-3, Continued
Significant Materials/Potential Pollutant Sources and Associated BMPs

Area	Activity	Pollutant Source	Pollutant	BMP
Lube Oil System	Receiving, storage, circulation	System malfunction, spills, leaks	Lube oil	• Good Housekeeping • Preventative Maintenance • Spill Response • Material Handling and Storage • Employee Training • Waste Handling/Recycling • Inspections • Overhead Coverage • Secondary Containment Structures
Throughout the facility	General facility maintenance	Spills, over application, drift	Paint, pesticides, cleaning products	• Good Housekeeping • Preventative Maintenance • Spill Response • Material Handling and Storage • Employee Training
Generating Units	Storage, loading, unloading	Spills, leaks	Various hazardous materials	• Good Housekeeping • Preventative Maintenance • Spill Response • Material Handling and Storage • Employee Training • Inspections • Overhead Coverage • Control Devices
Water Intake Structures	Micro-biofouling, production of waste brine, scale inhibition (demineralization)	Equipment malfunction; spills; leaks; loading, unloading, and storage of hazardous materials	Sodium hypochlorite, brine, phosphonic acid lubricating fluids, mineral oils	• Good Housekeeping • Preventative Maintenance • Spill Response • Material Handling and Storage • Employee Training • Inspections • Overhead Coverage • Secondary Containment Structures

Table 4-3, Continued
Significant Materials/Potential Pollutant Sources and Associated BMPs

Area	Activity	Pollutant Source	Pollutant	BMP
Intake Screens, Former Tank #7 Area	Screen system cleaning	Loading/unloading of process materials	Non-hazardous cleaning byproduct (seaweed, debris)	• Good Housekeeping • Preventative Maintenance • Spill Response • Material Handling and Storage • Employee Training • Control Devices
Warehouse	Shipping, storage, loading, and unloading	Spills, leaks	Paints, thinners, solvents lubricants/oil/grease (turbine oil, hydraulic fluid, mineral oil, mineral spirits, lubricating grease), scrap metal, oxidizers, acids	• Good Housekeeping • Preventative Maintenance • Spill Response • Material Handling and Storage • Employee Training • Inspections • Overhead Coverage • Control Devices
Hazardous Waste Storage Building	Storage, loading, unloading	Spills, leaks	Used oils, sludge, spent lubricating fluids, acids, bases, solvents	• Good Housekeeping • Preventative Maintenance • Spill Response • Material Handling and Storage • Employee Training • Waste Handling/Recycling • Inspections • Overhead Coverage • Control Devices
South Tank Farm	Storage, loading, and unloading of fuel oil	Spill, leaks, exposed soil	Fuel oil, sediment	• Good Housekeeping • Preventative Maintenance • Employee Training • Inspections

Table 4-3, Continued
Significant Materials/Potential Pollutant Sources and Associated BMPs

Area	Activity	Pollutant Source	Pollutant	BMP
Refuse Containment and Storage Areas	Filling, emptying, moving	Overtopping, spills, leaks	Trash	• Good Housekeeping • Preventative Maintenance • Spill Response • Employee Training • Waste Handling/Recycling • Inspections
Transformer Areas	Filling, draining, storage	Equipment malfunction, spills, leaks	Dielectric oil	• Good Housekeeping • Preventative Maintenance • Spill Response • Material Handling and Storage • Employee Training • Inspections • Secondary Containment Structures
Ammonia Storage Facility	Loading, storage	Spills and leaks	Aqueous ammonia	• Good Housekeeping • Preventative Maintenance • Spill Response • Material Handling and Storage • Employee Training • Inspections • Control Devices & Spill Alarms
Maintenance Shop #1 and #2	Materials loading and unloading, equipment maintenance	Spills, leaks	Solvents, paints, metals, oil, grease, lubricants	• Good Housekeeping • Preventative Maintenance • Spill Response • Material Handling and Storage • Employee Training • Inspections • Control Devices

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5.0 STORM WATER BEST MANAGEMENT PRACTICES

The goal of the SWPPP is to identify potential pollutants (listed in Section 4.0) and develop activities or structural improvements (BMPs) to eliminate or reduce discharges of these pollutants to storm water, thereby, improving storm water runoff quality. This section identifies BMPs implemented at SBPP to address the potential pollutants identified in Section 4.0. The BMPs are discussed in the following sections and include non-structural BMPs, such as good housekeeping procedures, including those for non-storm water discharges; preventative maintenance—including vehicle and equipment fueling, maintenance, and washing—; spill response; material handling and storage; employee training; waste handling/recycling; recordkeeping and reporting; erosion control and site stabilization; frequent inspections; and quality assurance; as well as structural BMPs, such as overhead coverage; retention ponds; control devices; secondary containment structures; and treatment devices. BMPs are updated as appropriate to comply with any additions or changes to General Permit requirements.

5.1 NON-STRUCTURAL BMPS (SECTION A.8.a)

Non-structural BMPs consist of processes, prohibitions, procedures, schedule of activities, etc. that prevent pollutants associated with industrial activity from contacting storm water and authorized non-storm water discharges. They are generally considered low technology, cost-effective measures. All possible non-structural BMP options will be considered before additional structural BMPs (see Section 5.2) are implemented. The following non-structural BMPs are implemented at the SBPP.

5.1.1 Good Housekeeping (Section A.8.a.i)

At the SBPP, good housekeeping is a high priority, not only for the protection of storm water, but also for safety and operational reasons. Specific good housekeeping BMPs that are performed at the SBPP are:

- Trash and debris are removed when found onsite during the frequent inspections;
- Streets and parking lots are swept as needed;
- Maintenance Shop #2 pad is swept as needed; and
- During welding activities, a heavy-fabric containment curtain is used to contain welding materials and the welding area is swept after welding activities are completed.

If any additional BMPs are necessary to prevent storm water pollution, they will be added to this SWPPP.

5.1.1.1 Non-Storm Water Discharges

To prevent or reduce non–storm water discharges, the following systems and practices are implemented:

- Sanitary waste, OWS System waste water, and other process water are conveyed to an off-site sanitary sewer system.
- Vehicles and equipment are washed off-site.
- Outdoor parking and storage areas are swept and not washed down.
- Water conservation practices, such as preventing irrigation runoff, are used.

- Non-potable water line or tank flushes are collected for off-site disposal by a licensed waste disposal contractor.

- Transformer containments are provided to control potential spills or leakage of transformer oil from the main and auxiliary transformers.

- Regular informal site inspections are conducted to detect unauthorized discharges. The SBPP personnel are trained to report site issues, to the Storm Water Team as soon as possible.

All non-storm water discharges are evaluated for contribution of pollutants to the storm water conveyance system. In the event an unauthorized non–storm water discharge is discovered, the discharge will be recorded using Dynegy Form 2 (Appendix C) and eliminated.

Future contracts with the SBPP pest management contractors shall include provisions requiring the use of certified applicators. In addition, provisions are included within contracts requiring pest management contractors to comply with all pertinent federal, state, local, and facility regulations and requirements.

5.1.2 Preventive Maintenance (Section A.8.a.ii)

Recurring and preventive maintenance is performed on all site infrastructures. Buildings and machinery are inspected regularly and repairs, if needed, will occur as soon as practicable.

5.1.2.1 Vehicle and Equipment Fueling, Maintenance, and Washing

The SBPP staff are trained regarding spill and leak clean-up procedures. All on-road vehicles are maintained offsite. Equipment are maintained where there is no exposure to storm water. Equipment activities that occur on the concrete pad adjacent to Maintenance Shop #2 are moved indoors prior to rain events and the pad is swept clean of any debris.

Vehicles and/or equipment observed to be leaking fluids are stored indoors until repairs are completed. All SBPP equipment are regularly inspected and maintained in accordance with manufacturer's recommendations and SBPP procedures. Leaks and drips are routinely spot-cleaned using absorbent pads or other dry absorbent materials. Vehicles are washed offsite. When equipment cleaning is performed, the storm drain(s) in the vicinity are covered and wash water is collected for discharge to the sanitary sewer.

5.1.3 Spill Response (Section A.8.a.iii)

Any spilled material, dry or liquid, will be promptly contained, collected, and properly disposed of. Spill and cleanup materials are stocked at all times and stored throughout the facility. Employees are trained on the proper use and disposal of spill and cleanup materials. Any and all materials spilled during loading and unloading activities are immediately cleaned-up and properly disposed of in consultation with the Storm Water Team.

A complete description of the Spill Prevention and Response Program for potential storm water pollution source areas is presented in the SBPP SPCC Plan, in accordance with 40 CFR 112 requirements, and the FEP. Specific material handling procedures, storage requirements, and clean-up equipment and procedures are also described in the SPCC Plan and FEP. The necessary equipment, controls, and

personnel training for the containment and cleanup of spills exist at the SBPP. Internal reporting procedures for spills/releases of significant materials at this facility are established.

5.1.4 Material Handling and Storage (Section A.8.a.iv)

A number of material handling and storage practices are employed at the SBPP to minimize contact of significant materials with storm water. A comprehensive and up-to-date inventory of all hazardous and non-hazardous chemicals and other substances used are maintained at the SBPP.

Containers are stacked and stored according to manufacturers' instructions, shelf life is monitored, and sufficient aisle space is provided for transfer and inspection. Containers are stored on pallets to prevent corrosion; loading and unloading of chemicals, oil, or other such materials takes place under supervision of SBPP personnel in areas designated for these activities. All materials stored in bags, drums, containers, and stockpiles are kept organized and properly labeled for easy identification. Oil and other petroleum products are handled in accordance with requirements of the SPCC Plan.

Chemicals are stored in the SBPP Main Power Plant Building, Warehouse, Hazardous Materials Building, in dedicated tanks, flammable materials lockers, or in other protected/roofed points of use on the site. Where feasible, oil or chemical containers are stored indoors in temperature-controlled areas. Chemical and hazardous material containers are clearly labeled with the chemical/product name, expiration date, and health hazards, and the containers will be compatible with the materials stored in them. Material Safety Data Sheets (MSDSs) are readily available in the administration building or available through 3E (1-800-451-8346).

Outdoor tanks are provided with secondary containment sufficient to control spills or leaks of tank contents, plus freeboard for precipitation. To the extent practical, materials are handled and stored in such a manner that minimizes exposure to precipitation. Spill control and clean-up materials are available at all times and are located at delivery and storage areas.

Loading and unloading of chemicals and petroleum products is performed where materials cannot enter the storm water conveyance system. All loading/unloading activities are attended by the contractor and SBPP personnel. The loading/unloading areas and responsible personnel are properly prepared for control of potential spills. Temporary curbs and dikes, absorbent pads and pigs, and other appropriate means to contain possible spills are stored in an easily accessible location near the loading area. Any and all spills are aggressively and expeditiously cleaned.

Standard operating procedures were developed at SBPP for the process of accepting liquid materials delivery to prevent pollution discharge to the storm water conveyance system. The procedures are adhered to and are described as follows:

- Liquid materials shall be delivered to the facility by California Department of Transportation certified vehicles and drivers.
- Storm drains in the delivery area shall be covered with mats and/or be surrounded by a temporary berm, and SBPP personnel shall ensure the storm water system isolation valves located near the off-loading activities are in the closed position
- SBPP staff shall be present during all deliveries and will maintain radio contact with staff in the control rooms, who can contact the proper authorities in the event of a spill.

Pesticide chemicals are stored and mixed offsite by the SBPP pest management contractor.

Hazardous materials are stored within secondary containment structures or otherwise managed to contain spills. Hazardous wastes are shipped from the Hazardous Materials Building by licensed contractors via certified transport trucks. In the event a waste is spilled, it will be cleaned immediately and disposed of in accordance with all federal, state, and local regulations. The Hazardous Materials Building and Warehouse loading area are routinely inspected in accordance with federal regulations.

5.1.5 Employee Training (Section A.8.a.v)

Employees responsible for implementing this SWPPP receive storm water pollution prevention training. The SBPP training coordinator will document SWPPP-related training in employee training records. Storm water training will be held (1) within 6 months of employment for new hires and (2) annually for current SBPP staff. Training will address the following topics:

- Function and membership of the Storm Water Team;
- Potential sources of storm water pollution;
- Sediment and erosion control features and practices;
- Preventive maintenance requirements;
- Good housekeeping and material management practices to control storm water pollution;
- Spill prevention and response procedures and responsibilities;
- Site inspection practices and requirements; and
- Potential sources for non–storm water discharges to the storm water management system and relevant controls.

The SBPP pest management contractors are required to provide applicator certification credentials prior to conducting any pesticide management at the SBPP. Pesticide applicators receive site specific training to ensure application efforts do not threaten storm water quality.

5.1.6 Waste Handling/Recycling (Section A.8.a.vi)

Any trash found onsite during inspections is picked up and disposed of properly. Refuse bins are checked periodically to ensure they are not at capacity. The bins are emptied by a contractor on a routine basis. Universal wastes are stored indoors or in sheltered, covered areas throughout the site and removed for recycling once accumulated. Hazardous wastes are stored at the Hazardous Materials Building until it is removed by a licensed contractor within the permitted holding time.

5.1.7 Recordkeeping and Internal Reporting (Section A.8.a.vii)

Recordkeeping is conducted with the use of logs, forms, and reports (found in Appendices B, C, and D). The use of these forms is specifically addressed within Sections 2.5, 5.0, 6.0, and 7.0 of this SWPPP. All records and forms of internal reporting are maintained at SBPP by the Storm Water Team for a minimum of 5 years from the time of generation.

5.1.7.1 Storm Water Pollution and Spill Incident Inspection and Reporting

Any incidents that result in off-site discharges of pollutants in storm water runoff from the SBPP is documented using the applicable Industrial Storm Water Management forms (Appendix C) and incident report form. Incident report forms can be found within the FEP.

5.1.8 Erosion Control and Site Stabilization (Section A.8.a.viii)

The majority of the SBPP facility is topographically flat; however, much of the site is also permeable and consists of erosive soils. Management techniques used at the SBPP to minimize erosion and sediment transport include the following:

- Unpaved areas are stabilized with a combination of compacted base material, gravel, and vegetation, as necessary.
- Operating/Process areas and roads are covered by asphalt or concrete. Curbs, gutters, and swales are in place to direct storm water away from unpaved areas.

During any major modifications to the site, an Erosion Control Plan is prepared by a qualified individual as part of the construction SWPPP. The construction SWPPP, in accordance with the *NPDES General Permit for Storm Water Discharges Associated with Construction Activity*, Water Quality Order 99-08-DWQ, will specify erosion control measures that will be implemented during construction to minimize soil disturbance and any potential off-site discharges of sediment.

5.1.9 Inspections (Section A.8.a.ix)

Site inspections are performed at the SBPP under the direction of the Storm Water Team. Inspections are tracked and the results retained onsite. Inspections are documented with the SBPP Industrial Storm Water Management Forms (Appendix C) and applicable SPCC Plan inspection forms. The SBPP inspection program is described as follows:

- Non-documented routine inspections are conducted to verify effectiveness of structural and non-structural controls, preventive maintenance activities, vehicle management practices, and housekeeping practices.
- SPCC inspections are completed monthly.
- The SBPP is regularly inspected for non–storm water discharges as presented in Section 7.0.
- Storm water runoff observations are performed during runoff events as presented in Section 7.0.
- Annual Comprehensive Site Compliance Evaluation inspections are conducted to verify that the SWPPP, site maps, and potential pollutant sources are accurate and BMPs are fully implemented and effective (see Section 6.0).

A detailed inspection is conducted in response to any reported problem involving control of runoff from the site, or quarterly, as appropriate. Results of corrective actions and general site inspections are recorded on the Industrial Storm Water Management Forms (Appendix C).

Inspection forms are signed and dated by the inspecting personnel, submitted to the Storm Water Team for review, and retained onsite. Any deficiency in implementation of the SWPPP, control of potential pollutants, or control of runoff is noted on the inspection form and brought to the attention of the plant EH&S specialist when the inspection form is submitted.

The SBPP Storm Water Team arranges for applicable corrective actions, as appropriate. All corrective actions and revisions to the SWPPP are addressed in a timely manner, but under no circumstance later than 90 days following the inspection. When corrective actions have been completed, the inspection form is updated and signed by a member of the SBPP Storm Water Team to confirm correction of the problems noted.

5.1.9.1 Accumulated Storm Water Inspection and Discharge

The process for inspecting and discharging accumulated secondary containment water is as follows:

Storm water collected within secondary containment structures and sumps is inspected for signs of pollution, such as cloudiness, color, odor, trash, etc. If there is reason to suspect that the water has come into contact with non-visible pollutants, samples are collected and analyzed for the suspected constituents. If the water is determined to be clean, it is discharged to grade or to the storm water conveyance system. If the water is polluted, it is pumped out and disposed of as process water to the WWTF or treated as hazardous waste if it qualifies as such.

5.1.10 Quality Assurance (Section A.8.a.x)

The Annual Comprehensive Site Compliance Evaluation as described in Section 6.0 is used to ensure that all elements of the SWPPP and Monitoring and Reporting Program are adequately conducted. In the event a component of the SWPPP or Monitoring Reporting Program is deficient or in violation of the General Permit, appropriate adjustments and revisions will be made. Revisions to the SWPPP or BMP implementation will be addressed in a timely manner, but under no circumstance later than 90 days following the inspection.

5.2 STRUCTURAL BMPS (SECTION A.8.b)

If non-structural BMPs identified in Section 5.1 are deemed ineffective, structural BMPs will be considered. Structural BMPs consist of structural devices that reduce or prevent pollutants in storm water discharges and authorized non–storm water discharges. A list of structural BMPs currently implemented at SBPP is provided in the following subsections.

5.2.1 Overhead Coverage (A.8.b.1)

Hazardous materials and wastes are stored indoors or in sheltered, covered areas, and industrial activities and maintenance are performed where there is no exposure to storm water whenever possible.

5.2.2 Control Devices (A.8.b.3)

Shut-off valves are present in the storm water conveyance system. The valves are maintained in the closed position and will only be opened for storm events after inspection.

5.2.3 Secondary Containment Structures (A.8.b.4)

Permanent secondary containment structures and/or berms have been installed at chemical storage and process areas and loading and unloading areas. The containment structures are designed to capture materials in the event of a spill or leak and to prevent storm water pollution. In addition, sumps have been installed to capture spills at the Hazardous Materials Building.

5.2.4 Treatment (A.8.b.5)

No storm water treatment controls have been installed because existing non-structural and structural BMPs are currently effective at the SBPP.

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6.0 ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION (SECTION A.9)

Trained personnel will conduct a comprehensive site evaluation in each annual reporting period (1 July through 30 June). The objective of the annual comprehensive site evaluation is to certify each year that SBPP is in compliance with the General Permit and that the SWPPP is adequate. The SWPPP will be revised and adjustments to BMP implementation made within 90 days of determination that the SWPPP is in violation of the General Permit requirements. The annual comprehensive site evaluation includes the following elements:

- Review records of storm water and non–storm water visual observations and sampling results.
- Review the SWPPP and potential pollutant activities and sources that are exposed to storm water.
- Conduct a facility reconnaissance to confirm that all industrial areas exposed to storm water are addressed in the SWPPP and documented on State Form 5 in Appendix C. Add any new industrial areas exposed to storm water that are not listed. Likewise, delete any areas listed that are no longer exposed to storm water. Make these changes both in the SWPPP and on State Form 5 (Appendix C).
- Determine if BMPs are in place for each listed area. Place a checkmark in the appropriate box next to each listed area on Form 5 if BMPs are in place.
- Evaluate whether the BMPs are sufficient to minimize storm water pollution or if additional controls are needed. The evaluation should be based on the results of monitoring. Also check the SWPPP to make sure that the BMPs have been properly documented for each listed area. Based upon the results of these evaluations, check the appropriate boxes on State Form 5 (Appendix C).
- If additional controls/documentation are deemed necessary, any actions taken should be described in the explanation section of State Form 5 (Appendix C). The SWPPP also should be updated at this time if necessary.

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7.0 MONITORING AND REPORTING PROGRAM (SECTION B)

The Monitoring and Reporting Program (MRP) outlined in the following sections has been developed in accordance with General Permit requirements. The MRP provides guidance for conducting the following:

- Visual monitoring of storm water and non-storm water discharges;
- Sampling and analysis of storm water;
- Annual inspection of the facility to evaluate existing BMPs and the need for others; and
- In-house records management and regulatory reporting.

Visual observations and sampling are to be conducted by the SBPP storm water inspection and sampling team identified in Table 7-1.

Table 7-1
SBPP Storm Water Inspection and Sampling Team

Name	Title	Phone Number
Tom Liebst	Senior Environmental Professional	(619) 498-5223 (Direct) (619) 250-0434 (Cell)
Roger Davis	Power Plant Technician	(619) 250-0435 (Cell)

7.1 MONITORING AND REPORTING PROGRAM OBJECTIVES (SECTION B.2)

The objectives of the MRP are to:

- Ensure that storm water discharges are in compliance with the Discharge Prohibitions, Effluent Limitations, and Receiving Water Limitations specified in the General Permit.
- Ensure practices at the facility to reduce or prevent pollutants in storm water discharges and authorized non–storm water discharges are evaluated and revised to meet changing conditions.
- Aid in implementing and revising the SWPPP.
- Assess the effectiveness of BMPs in preventing or reducing pollutants in storm water discharges and authorized non–storm water discharges.

7.2 STORM WATER MONITORING METHODOLOGY

Both observations and sampling are only required for storm water discharges that occur during daylight "scheduled laboratory operating hours" and that are preceded by at least 3 working days[3] without storm water discharges.

Observations and sampling are not required during dangerous weather conditions such as flooding (i.e., severe runoff conditions presenting a physical hazard to the sampler) or electrical storm. If sampling and/or observations do not occur, (e.g., due to dangerous weather) the reason for not sampling or observing will be documented on State Form 4, Side B (Appendix C).

Storm event information, such as date and time will be recorded.

7.2.1 Storm Water Discharge Monitoring Locations (Section B.7)

Storm water monitoring locations have been identified in all SBPP subcatchments that have significant industrial activities occurring. Additionally, storm water monitoring locations have been selected that represent the quality and quantity of runoff in the subcatchment. A summary of the current sampling points and the areas they represent is provided in Table 7-2.

Table 7-2
Sample Points, Receiving Water Body, and Area Represented

Sample Point	Receiving Water Body	Runoff Representative of Area
D-1	Telegraph Creek	Switchyard, JP-5 Fuel Storage, Gas Turbine, Material Laydown Area, Transformers, Main Power Plant Building, Fuel Additive Storage, parking lot, Maintenance Shop #1
E-1	San Diego Bay	Hazardous Materials Storage, Waste Water Holding Tanks, Oil/water Separator
F-1	San Diego Bay	Ammonia storage, Material Laydown Area, exposed soil
G-1	San Diego Bay	Maintenance Shop #2, Units 1 and 2 Water Intake Structures
K-1	San Diego Bay	Adjacent tank farm, exposed soil

Historically, there were outfalls in Basins A and J; however, gate valves in these basins always remain closed; therefore, samples are not collected from these basins. Due to the hazardous location of the Basin B outfall, the permeable and undeveloped characteristics of the basin, and consistent use of a gate valve, samples are not collected from this basin. Due to the permeable and undeveloped characteristics of Basins C and L, samples are not collected from these basins. The primary industrial activity associated with Basin H is storage and handling of sodium hypochlorite; however any spills or leaks would be contained within the secondary containment unit of this tank. A release of sodium hypochlorite from the secondary containment unit would flow to Basin G; therefore samples will not be collected from Basin H. Due to the inaccessibility of the Basin I discharge point, samples will not be collected from this basin.

[3] The 3 working days may be separated by nonworking days, such as a weekend or holiday, provided that no storm water discharges occurred during the 3 working days and the intervening nonworking days.

7.2.2 Non–Storm Water Discharge Visual Observations (Sections B.3 and B.8)

Personnel at the SBPP visually observe all drainage areas for (1) the presence of unauthorized non–storm water discharges and (2) the facility's authorized non–storm water discharges and their sources. Visual observations occur quarterly, during daylight hours, on days with no storm water discharges, and during scheduled facility operating hours.

The following SBPP non–storm water discharges are permitted, provided they are not a significant contributor of pollutants to storm water:

- Potable water;
- Water from fire hydrant flushing;
- Atmospheric condensate from refrigeration, air conditioning and compressor condensate;
- Irrigation drainage and landscape watering;
- Springs or uncontaminated groundwater; and
- Foundation or footing water.

Quarterly visual observations shall be conducted in each of the following periods:

- January–March;
- April–June;
- July–September; and
- October–December.

Personnel at the SBPP conduct the quarterly visual observations within 6 to 18 weeks of each other. Observations document the presence of any discolorations, stains, odors, floating materials, etc. as well as the source of any discharge.

A Record of Authorized Non–Storm Water Discharges (Dynegy Form 1) and Unauthorized Non–Storm Water Discharges (Dynegy Form 2) are provided in Appendix C. The inspector should make notes on the inspection form if abnormal conditions, such as potential sources of pollution are found. The name(s) of inspector(s), the designated area observed, date, time, observations made, and any corrective actions or additional testing method(s) and test results (if appropriate) should also be included. The SWPPP shall be revised as necessary and implemented in accordance with Section A of the General Permit.

7.2.3 Storm Water Discharge Visual Observations (Sections B.4 and B.8)

Once a month, between October 1 and May 30, visual monitoring must be performed at a representative location for each of the designated storm water outfalls. The observations should be conducted during the first hour of runoff following 3 working days without runoff. Refer to available weather data to assure that the rain event was preceded by at least 3 days of dry weather.

Storm water observations must be performed to detect signs of pollution, such as:

- Odor: musty, sewage, oil, gasoline, rotten eggs, sour milk, etc.
- Color: red, brown, yellow, green, blue, gray, black, etc.
- Turbidity: clear, cloudy, opaque suspended materials, etc.
- Floatables: garbage, paper, wood, plastic, sewage, etc.
- Oily sheen: describe if an oily sheen is present and describe how widespread and how thick the oil appears.

The Storm Water Discharge Observation and Sampling Report (State Form 4) in Appendix C should be used to document the observations. The recorded information includes the date and time, the name(s) of observer(s), the designated storm water discharge outfall location, and the observations made. The observer should make notes on the inspection form if abnormal conditions such as potential sources of pollution are found. If pollution or new sources of potential pollution are found, corrective actions are taken immediately and the SWPPP revised.

7.2.4 Storm Water Sampling and Analysis Methodology (Sections B.5 and B.10)

As specified in the General Permit provisions, storm water samples must be collected and analyzed from the first hour of discharge during the first storm of the wet season (1 October through 31 May) and during at least one other storm event of the wet season. Sample collection is only required of storm water discharges that occur during scheduled laboratory operating hours that are preceded by at least 3 working days without storm water discharges. All samples are to be collected during the first hour of the storm event. The collection of samples of stored/contained storm water (e.g., from a basin or valved area) shall occur at the time the stored/contained storm water is released.

Plan in advance for storm water discharge sampling needs and obtain Chain-of-Custody forms, new pre-cleaned and preserved sample containers from the certified laboratory, cooler with ice or ice packs, a plastic sample cup for transfer of storm water, wet weather gear, an all weather pen and log book, and a copy of this SWPPP and MRP, as needed.

Sample requirements for each monitoring event are provided in Table 7-3. All listed parameters shall be collected at each sample point.

Table 7-3
SBPP Sampling Requirements for SIC Code 4911

Analytical Parameters	Bottle(s) per Sample	No. of Samples per Sample Point	EPA Analytical Method	Method Detection Limit
pH	250 mL HDPE	1	SM 4500 H+B	0–14 pH units
Total Suspended Solids	1L Glass	1	SM 2540D	0.4 mg/L
Specific Conductance	1L Glass	1	120.1	0.1 umhos/cm
Oil and Grease or TOC	1L Glass	1	1664A	5.0 mg/L
Total iron	250 mL HDPE with HNO_3	1	200.7	0.05 mg/L

Notes:

EPA	Environmental Protection Agency
HDPE	high-density polyethylene
HNO_3	nitric acid
L	liter
umhos/cm	micromhos per centimeter
mg/L	milligrams per liter
mL	milliliter
SIC	Standard Industrial Classification
TOC	total organic carbon

Decontaminate any devices used for collecting storm water samples utilizing a non-phosphate detergent wash followed by a tap water rinse. In addition, decontaminate the sample collection device(s) prior to use at each sampling location. Bottles that do not contain preservative and vessels used to collect samples should be triple rinsed with storm water at each location to ensure cross-contamination does not occur. Avoid touching the insides of the containers. To prevent the washout of preservatives, be careful not to overfill sample containers. After securing container lids, handle each container carefully to prevent breakage. Place the samples in a cooler with ice.

Complete a Chain-of-Custody form by filling in the appropriate information, including;

- Facility information;
- Sample identification;
- Date and time of sampling;
- Signature and date of relinquishment.

Containers should be transferred to an ELAP-certified chemistry laboratory promptly for appropriate analyses.

7.2.4.1 Monitoring Schedule

Table 7-4 summarizes storm water monitoring requirements for SBPP.

Table 7-4
SBPP Monitoring Schedule Summary

Action	Frequency	Location	Observe/Analyze
Non–Storm Water Discharge Visual Observations	Quarterly	All drainage areas	Unauthorized storm water discharges and authorized non–storm water discharges
Storm Water Discharge Observations	Monthly	All accessible discharge locations	Discharge characteristics
Storm Water Sampling and Analysis	Twice annually	Predefined monitoring locations representative of site storm water quality and quantity: Sample Points, D-1, E-1, F-1, G-1, and K-1	Analyze samples for: - pH - TSS - SC - Oil and grease or TOC - Iron

7.3 RECORDS MANAGEMENT (SECTION B.13)

Records of all storm water monitoring information and copies of all reports, including the Annual Reports, will be retained for a period of at least 5 years. These records include the following:

- The date, place, and time of site inspections, sampling, observations, and/or measurements;
- The individual(s) who performed the site inspections, sampling, visual observations, and/or measurements;
- The date and approximate time of analyses;
- The individual(s) who performed the analyses;
- Analytical results, method detection limits, and the methods used;
- Quality assurance/quality control records and results;
- Non–storm water discharge inspections and observations and storm water discharge observation records;
- Observation and sample collection exception records;
- All calibration records of on-site instruments used;
- All Sampling and Analysis Exemption and Reduction certifications and supporting documentation; and
- The records of any corrective actions and follow-up activities that resulted from the observations.

A copy of this SWPPP is to be maintained onsite and is to be available for review by all facility staff and the SDRWQCB.

7.4 ANNUAL REPORTING (SECTION B.14)

An annual report will be submitted to the SDRWQCB by July 1 of each year. The annual report will summarize observations, sample results, an evaluation of the observation and sampling and analysis results, laboratory reports, the Annual Comprehensive Site Compliance Evaluation Report required in Section A.9 of the General Permit, why a facility did not implement any activities required by the General Permit, and records specified in Section B.13.i of the General Permit. The method detection limit of each analytical parameter will be included in the Annual Report and results that are less than the method detection limit will be reported as "less than the method detection limit."

The annual report will be signed and certified in accordance with Standard Provisions 9 and 10 of Section C of the General Permit. SBPP personnel will prepare and submit the annual report using the annual report forms provided by the SWRCB or will submit information on a form that contains equivalent information.

7.5 NON-COMPLIANCE REPORTING (SECTION C.11.d)

The SBPP will give advance notice to the SDRWQCB and local storm water management agency of any planned changes at the permitted facility that may result in non-compliance with General Permit. SBPP personnel will report any non-compliance at the time monitoring reports are submitted. The written submission shall contain (1) a description of the non-compliance and its cause; (2) the period of non-compliance, including exact dates and times, and if the non-compliance has not been corrected, the anticipated time it is expected to continue; and (3) steps taken or planned to reduce and prevent recurrence of the non-compliance. Reports of non-compliance with any compliance schedule of the General Permit will be submitted no later than 14 days following each scheduled date.

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APPENDIX A SWRCB WATER QUALITY ORDER NO. 97-03-DWQ, NPDES GENERAL PERMIT NO. CAS000001, WASTE DISCHARGE REQUIREMENTS FOR DISCHARGES OF STORM WATER ASSOCIATED WITH INDUSTRIAL ACTIVITIES EXCLUDING CONSTRUCTION ACTIVITIES

State of California
State Water Resources Control Board

NOTICE OF INTENT

TO COMPLY WITH THE TERMS OF THE
GENERAL PERMIT TO DISCHARGE STORM WATER
ASSOCIATED WITH INDUSTRIAL ACTIVITY (WQ ORDER No. 97-03-DWQ)
(Excluding Construction Activities)

SECTION I. NOI STATUS (please check only one box)

A. [ ] New Permittee B. [X] Change of Information WDID # 9 | 3 7 I 0 1 5 0 2 2

SECTION II. FACILITY OPERATOR INFORMATION (See instructions)

A. NAME: DYNEGY SOUTH BAY, LLC Phone: (619) 498-5200

Mailing Address: 990 BAY BOULEVARD

City: CHULA VISTA State: CA Zip Code: 91911-1651

Contact Person: JIM NYLANDER

B. OPERATOR TYPE:
(check one) 1.[ ] Private Individual 2.[X] Business 3.[ ] Municipal 4.[ ] State 5.[ ] Federal 6.[ ] Other

SECTION III. FACILITY SITE INFORMATION

A. FACILITY NAME SOUTH BAY POWER PLANT Phone: (619) 498-5200

Facility Location: 990 BAY BOULEVARD County: SAN DIEGO

City: CHULA VISTA State: CA Zip Code: 91911-1651

B. MAILING ADDRESS: 990 BAY BOULEVARD

City: CHULA VISTA State: CA Zip Code: 91911-1651

Contact Person: JIM NYLANDER

C. FACILITY INFORMATION
Total Size of Site: 148.5 (check one) Acres [X] Sq. Ft. [X]
Percent of Site Impervious (*including rooftops*) 18 %

D. SIC CODE(S) OF REGULATED ACTIVITY: E. REGULATED ACTIVITY (*describe each SIC code*):

1. 4911 ELECTRIC SERVICES
2.
3.

FOR STATE USE ONLY:

SECTION IV. ADDRESS FOR CORRESPONDENCE

[X] Facility Operator Mailing Address (Section II) [ ] Facility Mailing Address (Section III, B.) [ ] Both

SECTION V. BILLING ADDRESS INFORMATION

SEND BILL TO: [X] Facility Operator Mailing Address (Section II) [ ] Facility Mailing Address (Section III, B.) [ ] Other (*enter information below*)

Name: | Phone: ( ) - -

Mailing Address:

City: | State: | Zip Code: -

Contact Person:

SECTION VI. RECEIVING WATER INFORMATION

Your facility's storm water discharges flow: (*check one*) [X] Directly OR [ ] Indirectly to waters of the United States.

Name of receiving water: SAN DIEGO BAY
(river, lake, stream, ocean, etc.)

SECTION VII. IMPLEMENTATION OF PERMIT REQUIREMENTS

A. STORM WATER POLLUTION PREVENTION PLAN (SWPPP) (*check one*)
[X] A SWPPP has been prepared for this facility and is available for review.
[ ] A SWPPP will be prepared and ready for review by (enter date): ___/___/___.

B. MONITORING PROGRAM (check one)
[X] A Monitoring Program has been prepared for this facility and is available for review.
[ ] A Monitoring Program will be prepared and ready for review by (enter date): ___/___/___.

C. *PERMIT COMPLIANCE RESPONSIBILITY*
Has a person been assigned responsibility for:

1. Inspecting the facility throughout the year to identify any potential pollution problems? ..... [✓] YES [ ] NO
2. Collecting storm water samples and having them analyzed? ..... [✓] YES [ ] NO
3. Preparing and submitting an annual report by July 1 of each year? ..... [✓] YES [ ] NO
4. Eliminating discharges other than storm water (*such as equipment or vehicle wash-water*) into the storm drain? ..... [✓] YES [ ] NO

SECTION VIII. SITE MAP

I HAVE ENCLOSED A SITE MAP YES[ ] A new NOI submitted without a site map will be rejected.

SECTION IX. CERTIFICATION

"I certify under penalty of law that this document and all attachments were prepared under my direction and 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. In addition, I certify that I have read the entire General Permit, including all attachments, and agree to comply with and be bound by all of the provisions, requirements, and prohibitions of the permit, including the development and implementation of a Storm Water Pollution Prevention Plan and a Monitoring Program Plan will be complied with."

Printed Name: MICHAEL D. HORN

Signature: Michael D. Horn Date 4/2/07

Title: PLANT MANAGER - DYNEGY SOUTH BAY LLC

Linda S. Adams
Secretary for
Environmental Protection

State Water Resources Control Board

Division of Water Quality
1001 I Street • Sacramento, California 95814 • (916) 341-5538
Mailing Address: P.O. Box 1977 • Sacramento, California • 95812-1977
FAX (916) 341-5543 • Internet Address: http://www.waterboards.ca.gov/water_issues/programs/stormwater/

Arnold Schwarzengger
Governor

To: STORM WATER DISCHARGER

SUBJECT: CHECKLIST FOR SUBMITTING A NOTICE OF INTENT

In order for the State Water Resources Control Board to expeditiously process your Notice of Intent (NOI), the following items must be submitted to either of the addresses indicated below:

1._____ NOI (please keep a copy for your files) with all applicable sections completed and original signature of the facility operator;

2._____ Check made out to the "State Water Resources Control Board" with the appropriate fee. The total annual fee is **$1008.00.**

3. _____ Site Map of the facility (see NOI instructions). DO NOT SEND BLUEPRINTS

U.S. Postal Service Address

State Water Resources Control Board
Division of Water Quality
Attn: Storm Water Section
P.O. Box 1977
Sacramento, CA 95812-1977

Overnight Mailing Address

State Water Resources Control Board
Division Of Water Quality
Attn: Storm Water, 15th Floor
1001 I Street
Sacramento, CA 95814

NOIs are processed in the order they are received. A NOI receipt letter will be mailed to the facility operator within approximately two weeks. Incomplete NOI submittals will be returned to the facility operator within the same timeframe and will specify the reason(s) for return. If you need a receipt letter by a specific date (for example, to provide to a local agency), we advise that you submit your NOI thirty (30) days prior to the date the receipt letter is needed.

Please do not call us to verify your NOI status. A copy of your NOI receipt letter will be available on our web page within twenty-four (24) hours of processing. Go to: http://www.waterboards.ca.gov/water_issues/programs/stormwater/databases.shtml to retrieve an electronic copy of your NOI receipt letter. If you have any questions regarding this matter, please contact us at (916) 341-5538.

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FACT SHEET
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BACKGROUND

In 1972, the Federal Water Pollution Control Act (also referred to as the Clean Water Act [CWA]) was amended to provide that the discharge of pollutants to waters of the United States from any point source is effectively prohibited unless the discharge is in compliance with an NPDES permit. The 1987 amendments to the CWA added Section 402(p) that establishes a framework for regulating municipal and industrial storm water discharges under the NPDES Program. On November 16, 1990, the U.S. Environmental Protection Agency (U.S. EPA) published final regulations that establish application requirements for storm water permits. The regulations require that storm water associated with industrial activity (storm water) that discharges either directly to surface waters or indirectly through municipal separate storm sewers must be regulated by an NPDES permit.

U.S. EPA developed a four-tier permit issuance strategy for storm water discharges associated with industrial activity as follows:

Tier I, Baseline Permitting--One or more general permits will be developed to initially cover the majority of storm water discharges associated with industrial activity.

Tier II, Watershed Permitting--Facilities within watersheds shown to be adversely impacted by storm water discharges associated with industrial activity will be targeted for individual or watershed-specific general permits.

Tier III, Industry-Specific Permitting--Specific industry categories will be targeted for individual or Industry-specific general permits.

Tier IV, Facility-Specific Permitting--A variety of factors will be used to target specific facilities for individual permits.

The regulations allow authorized states to issue general permits or individual permits to regulate storm water discharges.

Consistent with Tier I, Baseline Permitting, of the U.S. EPA permitting strategy, the State Water Board issued a statewide General Permit on November 19, 1991 that applied to all storm water discharges requiring a permit except construction activity. The monitoring requirements of this General Permit were amended September 17, 1992. A separate statewide general permit has been issued for construction activity.

To obtain authorization for continued and future storm water discharge under this General Permit, each facility operator must submit a Notice of Intent (NOI). This approach is consistent with the four-tier permitting strategy described in Federal regulations, i.e., Tier 1, Baseline Permitting. Tier 1, Baseline Permitting, enables the State to begin reducing pollutants in industrial storm water in the most efficient manner possible.

This General Permit generally requires facility operators to:

1. Eliminate unauthorized non-storm water discharges;
2. Develop and implement a storm water pollution prevention plan (SWPPP); and
3. Perform monitoring of storm water discharges and authorized non-storm water discharges.

TYPES OF STORM WATER DISCHARGES COVERED BY THIS GENERAL PERMIT

This General Permit is intended to cover all new or existing storm water discharges and authorized non-storm water discharges from facilities required by Federal regulations to obtain a permit including those (1) facilities previously covered by the San Francisco Bay Regional Water Quality Control Board Order No. 92-011 (as amended by Order No. 92-116), (2) facilities designated by the Regional Water Quality Control Boards (Regional Water Boards), (3) facilities whose operators seek coverage under this General Permit, (4) and facilities required by future U.S. EPA storm water regulations.

The General Permit is intended to cover all facilities described in Attachment 1, whether the facility is primary or is auxiliary to the facility operator's function. For example, although a school district's primary function is education, a facility that it operates for vehicle maintenance of school buses is a transportation facility that is covered by this General Permit.

The definition of "storm water associated with industrial activity" is provided in Attachment 4, Definition 9, of this General Permit. Facilities that discharge storm water associated with industrial activity requiring a General Permit are listed by category in 40 Code of Federal Regulations (CFR) Section 122.26(b)(14) (Federal Register, Volume 55 on

Pages 48065-66) and in Attachment 1 of this General Permit. The facilities can be publicly or privately owned. General descriptions of these categories are:

1. Facilities subject to storm water effluent limitations guidelines, new source performance standards, or toxic pollutant effluent standards (40 CFR Subchapter N);

2. Manufacturing facilities;

3. Mining/oil and gas facilities;

4. Hazardous waste treatment, storage, or disposal facilities;

5. Landfills, land application sites, and open dumps that receive industrial waste;

6. Recycling facilities such as metal scrap yards, battery reclaimers, salvage yards, automobile yards;

7. Steam electric generating facilities;

8. Transportation facilities that conduct any type of vehicle maintenance such as fueling, cleaning, repairing, etc.;

9. Sewage treatment plants;

10. Construction activity (covered by a separate general permit); and

11. Certain facilities (often referred to as "light industry") where industrial materials, equipment, or activities are exposed to storm water.

For the most part, these facilities are identified in the Federal regulations by a Standard Industrial Classification (SIC).

Category 1 Dischargers

The following categories of facilities currently have storm water effluent limitation guidelines for at least one of their subcategories. They are cement manufacturing (40 CFR Part 411); feedlots (40 CFR Part 412); fertilizer manufacturing (40 CFR Part 418); petroleum refining (40 CFR Part 419); phosphate manufacturing (40 CFR Part 422); steam electric power generation (40 CFR Part 423); coal mining (40 CFR Part 434); mineral mining and processing (40 CFR Part 436); ore mining and dressing (40 CFR Part 440); and asphalt emulsion (40 CFR Part 443). A facility operator whose facility falls into one of these general categories should examine the effluent guidelines to determine if the facility is categorized in one of the subcategories that have storm water effluent guidelines. If

a facility is classified as one of those subcategories, that facility is subject to the standards listed in the CFR for that category and is subject to this General Permit. This General Permit contains additional requirements (see Section B.6.) for facilities with storm water effluent limitations guidelines.

Category 5 Dischargers

Inactive or closed landfills, land application sites, and open dumps that have received industrial wastes (Category 5) may be subject to this General Permit unless the storm water discharges from the sites are already regulated by an NPDES permit issued by the appropriate Regional Water Board. Facility operators of closed landfills that are regulated by waste discharge requirements (WDRs) may be required to comply with this General Permit. In some cases, it may be appropriate for closed landfills to be covered by the State Water Board's General Permit during closure activities. The Construction Activities General Permit should cover new landfill construction. Facility operators should contact their Regional Water Board to determine the appropriate permit coverage.

Category 10 Dischargers

Facility operators of Category 10 (light industry) facilities are not subject to this General Permit if they can certify that the following minimum conditions at their facilities are met:

1. All prohibited non-storm water discharges have been eliminated or otherwise permitted.

2. All areas of past exposure have been inspected and cleaned, as appropriate.

3. All materials related to industrial activity (including waste materials) are not exposed to storm water or authorized non-storm water discharges.

4. All industrial activities and industrial equipment are not exposed to storm water or authorized non-storm water discharges.

5. There is no exposure of materials associated with industrial activity through other direct or indirect pathways such as particulates from stacks and exhaust systems.

6. There is periodic re-evaluation of the facility to ensure Conditions 1, 3, 4, and 5 are continuously met.

Currently, facility operators that can certify that the above conditions are met are not required to notify the State Water

Board or Regional Water Board. These facility operators are advised to retain such certification documentation on site.

The Ninth Circuit Court of Appeals invalidated the exemption granted by U.S. EPA for storm water discharges from facilities in Category 11 that do not have exposure and remanded the regulation to U.S. EPA for further action. The State Water Board, at this time, is not requiring storm water discharges from facilities in Category 11 that do not have exposure to be covered by this General Permit. Instead, the State Water Board will await future U.S. EPA or court action clarifying the types of storm water discharges that must be permitted. If necessary, the State Water Board will reopen the General Permit to accommodate such a clarification.

Section 1068 of the Intermodal Surface Transportation Act of 1991 exempts municipal agencies serving populations of less than 100,000 from Phase I permit requirements for most facilities they operate (uncontrolled sanitary landfills, power plants, and airports are still required to be permitted in Phase I). Phase II of the Permit Program scheduled to begin August 7, 2001 will cover the facilities that are exempt from Phase I permit requirements.

TYPES OF DISCHARGES NOT COVERED BY THIS GENERAL PERMIT

1. CONSTRUCTION ACTIVITY: Discharges from construction activity of five acres or more, including clearing, grading, and excavation. A separate general permit was adopted on August 20, 1992 for this industrial category.

2. FACILITIES WHICH HAVE NPDES PERMITS CONTAINING STORM WATER PROVISIONS: Some storm water discharges may be regulated by other individual or general NPDES permits issued by the State Water Board or the Regional Water Boards. This General Permit shall not regulate these discharges. When the individual or general NPDES permits for such discharges expire, the State Water Board or Regional Water Board may authorize coverage under this General Permit or another general NPDES permit, or may issue a new individual NPDES permit consistent with the Federal and State storm water regulations. Interested parties may petition the State Water Board or appropriate Regional Water Board to issue individual or General NPDES Permits. General Permits may be issued for a particular industrial group or watershed area.

3. FACILITIES DETERMINED INELIGIBLE BY REGIONAL WATER BOARDS: Regional Water Boards may determine that discharges from a facility or groups of facilities, otherwise eligible for coverage under this General Permit, have potential water quality impacts that may not be appropriately addressed by

this General Permit. In such cases, a Regional Water Board may require such discharges to be covered by an individual or general NPDES permit. Interested persons may petition the appropriate Regional Water Board to issue individual NPDES permits. The applicability of this General Permit to such discharges will be terminated upon adoption of an individual NPDES permit or a different general NPDES permit.

4. FACILITIES WHICH DO NOT DISCHARGE STORM WATER TO WATERS OF THE UNITED STATES: The discharges from the following facilities are not required to be permitted:

   a. FACILITIES THAT DISCHARGE STORM WATER TO MUNICIPAL SANITARY SEWER SYSTEMS: Facilities that discharge storm water to municipal sanitary sewer systems or combined sewer systems are not required by Federal regulations to be covered by an NPDES storm water permit or to submit an NOI to comply with this General Permit. (It should be noted that many municipalities have sewer use ordinances that prohibit storm drain connections to their sanitary sewers.)

   b. FACILITIES THAT DO NOT DISCHARGE STORM WATER TO SURFACE WATERS OR SEPARATE STORM SEWERS: Storm water that is captured and treated and/or disposed of with the facility's NPDES permitted process wastewater and storm water that is disposed of to evaporation ponds, percolation ponds, or combined sewer systems are not required to obtain a storm water permit. To avoid liability, the facility operator should be certain that no discharge of storm water to surface waters would occur under any circumstances.

5. MOST SILVICULTURAL ACTIVITIES: Storm water discharges from most silvicultural activities such as thinning, harvesting operations, surface drainage, or road construction and maintenance are exempt from this permit. Log sorting or log storage facilities that fall within SIC 2411 are required to be permitted.

6. MINING AND OIL AND GAS FACILITIES: Oil and gas facilities that have not released storm water resulting in a discharge of a reportable quantity (RQ) for which notification is or was required pursuant to 40 CFR Parts 110, 117, and 302 at any time after November 19, 1987 are not required to be permitted unless the industrial storm water discharge contributed to a violation of a water quality standard. Mining facilities that discharge storm water that does not come into contact with any overburden, raw materials, intermediate product, finished product, by-product, or waste product located at the facility are not required to be permitted. These facilities must be permitted if they have a new release of storm water resulting in a discharge of an RQ.

7. FACILITIES ON INDIAN LANDS: the U.S. EPA will regulate Discharges from facilities on Indian lands.

NOTIFICATION REQUIREMENTS

Storm water discharges from facilities described in the section titled "Types of Storm Water Discharges Covered by This General Permit" must be covered by an NPDES permit. An NOI must be submitted by the facility operator for each individual facility to obtain coverage. Certification of the NOI signifies that the facility operator intends to comply with the provisions of the General Permit. Facility operators who have filed NOIs for the State Water Board Order No. 91-013-DWQ (as amended by Order No. 92-12-DWQ) or San Francisco Bay Regional Water Board Order No. 92-011 (as amended by Order No. 92-116) will be sent an abbreviated NOI soon after adopting this General Permit that must be completed and returned within 45 days of receipt. Where operations have discontinued and significant materials remain on site (such as at closed landfills), the landowner may be responsible for filing an NOI and complying with this General Permit. A landowner may also file an NOI for a facility if the landowner, rather than the facility operator(s), is responsible for compliance with this General Permit.

A facility operator that does not submit an NOI for a facility must submit an application for an individual NPDES permit. U.S. EPA's regulations [40 CFR 122.21 (a)] exclude facility operators covered by a general permit from requirements to submit an individual permit application unless required by the Regional Water Board. The NOI requirements of this General Permit are intended to establish a mechanism which can be used to establish a clear accounting of the number of facility operators complying with the General Permit, their identities, the nature of operations at the facilities, and location.

All facility operators filing an NOI after the adoption of this General Permit must comply with this General Permit. Existing facility operators who have filed NOIs prior to the adoption of this General Permit shall continue to complete the requirements of the previous General Permit through June 30, 1997 including submitting annual reports to the Regional Water Boards by July 1, 1997. Group Leaders are required to submit a 1996-97 Group Evaluation Report by August 1, 1997.

DESCRIPTION OF GENERAL PERMIT CONDITIONS

Prohibitions

This General Permit authorizes storm water and authorized non-storm water discharges from facilities that are required to be covered by a storm water permit. This General Permit prohibits discharges of material other than storm water (non-storm water discharges) that are not authorized by the General Permit and discharges containing hazardous substances in storm water in excess of reportable quantities established at 40 CFR 117.3 and 40 CFR 302.4. Authorized non-storm water discharges are addressed in the Special Conditions of the General Permit.

Effluent Limitations

NPDES Permits for storm water discharges must meet all applicable provisions of Sections 301 and 402 of the CWA. These provisions require control of pollutant discharges using best available technology economically achievable (BAT) and best conventional pollutant control technology (BCT) to prevent and reduce pollutants and any more stringent controls necessary to meet water quality standards.

U.S. EPA regulations (40 CFR Subchapter N) establish effluent limitation guidelines for storm water discharges from facilities in ten industrial categories. For these facilities, compliance with the effluent limitation guidelines constitutes compliance with BAT and BCT for the specified pollutants and must be met to comply with this General Permit.

For storm water discharges from facilities not among the ten industrial categories listed in 40 CFR Subchapter N, it is not feasible at this time to establish numeric effluent limitations. The reasons why establishment of numeric effluent limitations is not feasible are discussed in detail in State Water Board Orders No. WQ 91-03 and WQ 91-04. Therefore, this General Permit allows the facility operator to implement best management practices (BMPs) to comply with the requirements of this General Permit. This approach is consistent with the U.S. EPA's August 1, 1996 "Interim Permitting Approach for Water Quality Based Effluent Limitations in Storm Water Permits".

Receiving Water Limitations

Storm water discharges shall not cause or contribute to a violation of an applicable water quality standard. The General Permit requires facility operators to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges through the development and implementation of BMPs which constitutes compliance with BAT and BCT and, in most cases, compliance with water quality standards. If receiving water quality standards are exceeded, facility operators are required to submit a written report providing additional BMPs that will be implemented to achieve water quality standards.

Storm Water Pollution Prevention Plans (SWPPPs)

All facility operators must prepare, retain on site, and implement an SWPPP. The SWPPP has two major objectives: (1) to help identify the sources of pollution that affect the quality of industrial storm water discharges and authorized non-storm water discharges, and (2) to describe and ensure the implementation of BMPs to reduce or prevent pollutants in industrial storm water discharges and authorized non-storm water discharges.

This General Permit requires development and implementation of an SWPPP emphasizing BMPs. This approach provides the flexibility necessary to establish appropriate BMPs for different types of industrial activities and pollutant sources. As this General Permit covers vastly different types of facilities, the State Water Board recognizes that there is no single best way of developing or organizing an SWPPP. The SWPPP requirements contain the essential elements that all facility operators must consider and address in the SWPPP. This General Permit's SWPPP requirements are more detailed than the previous general permit's SWPPP requirements, and the suggested order of the SWPPP elements have been rearranged (1) to correspond more closely with other storm water permits in effect throughout the country, and (2) to generally follow a more logical path. Facility operators that have already developed and implemented SWPPPs under previous general permits are required to review the SWPPP's requirements contained in this General Permit and then review their existing SWPPP for adequacy. If the existing SWPPP adequately identifies and assesses all potential sources of pollutants and describes the appropriate BMPs necessary to reduce or prevent pollutants, the facility operator is not required to revise the existing SWPPP.

One of the major elements of the SWPPP is the elimination of unauthorized non-storm water discharges to the facility's storm drain system. Unauthorized non-storm water discharges can be generated from a wide variety of potential pollutant sources. They include waters from the rinsing or washing of vehicles, equipment, buildings, or pavement; materials that have been improperly disposed of or dumped, and spilled; or leaked materials. Unauthorized non-storm water discharges can contribute a significant pollutant load to receiving waters. Measures to control spills, leakage, and dumping can often be addressed through BMPs. Unauthorized non-storm water discharges may enter the storm drain system via conveyances such as floor drains. All conveyances should be evaluated to determine whether they convey unauthorized non-storm water discharges to the storm drain system. Unauthorized non-storm water discharges (even when commingled with storm water) shall be eliminated or covered by a separate NPDES Permit.

There are many non-storm water discharges that, under certain conditions, should not contain pollutants associated with

industrial activity (i.e., air conditioning condensate, potable water line testing, landscaping overflow, etc.). Item D, Special Conditions, provides the conditions where certain listed non-storm water discharges are authorized by this General Permit.

Monitoring Program

The General Permit requires development and implementation of a monitoring program. The objectives of the monitoring program are to (1) demonstrate compliance with the General Permit, (2) aid in the implementation of the SWPPP, and (3) measure the effectiveness of the BMPs in reducing or preventing pollutants in storm water discharges and authorized non-storm water discharges.

All facility operators (with the exception of inactive mining operations) are required to:

1. Perform visual observations of storm water discharges and authorized storm water discharges.

2. Collect and analyze samples of storm water discharges. Analysis must include pH, total suspended solids (TSS), total organic carbon (TOC), specific conductance, toxic chemicals, and other pollutants which are likely to be present in storm water discharges in significant quantities, and those parameters listed in Table D of this General Permit. The Table D parameters are those listed in the U.S. EPA Multi-Sector General Permit. Facility operators subject to Federal storm water effluent limitation guidelines in 40 CFR Subchapter N must also sample and analyze for any pollutant specified in the appropriate category of 40 CFR Subchapter N.

Facility operators are not required to collect samples or perform visual observations during adverse climatic conditions. Sample collection and visual observations are required only during scheduled facility operating hours. Visual observations are required only during daylight hours. Facility operators that are unable to collect any of the required samples or visual observations because of the above circumstances must provide documentation to the Regional Water Board in their annual report.

Facility operators may be exempt from performing sampling and analysis if they: (1) do not have areas of industrial activity exposed to storm water, (2) receive an exemption from a local agency which has jurisdiction over the storm sewer system, or (3) receive an exemption from the appropriate Regional Water Board. Facility operators must always perform sampling and analysis for any pollutant specified in storm water effluent limitation guidelines.

This General Permit contains a new procedure where facility operators, if they meet certain minimum conditions, may certify compliance with the General Permit and reduce the number of

sampling events required to be sampled for the remaining term of the General Permit. Each Regional Water Board may develop instructions, guidance, and checklists to assist facility operators to complete sampling reduction requests.

Local agencies that wish to provide sampling and analysis exemptions or reductions to facility operators within their jurisdiction shall develop a certification program that clearly indicates the certification procedures and criteria used by the local agency. At a minimum, these programs should include site inspections, a review of the facility operator's SWPPP, and a review of other records such as monitoring data, receiving water data, etc. The certification program shall be approved by the local Regional Water Board before implementation.

Alternative Monitoring

Facility operators are required to develop a facility-specific monitoring program that satisfies both the minimum monitoring program requirements and the objectives of the monitoring program. Some facility operators have indicated that cost-effective alternative monitoring programs can be developed that provide equivalent or more accurate indicators of pollutants and/or BMP performance than a monitoring program based upon the minimum monitoring program requirements. An example of such an alternative monitoring program would be one that identifies sample locations at or near pollutant sources rather than sampling an entire drainage area where the storm water discharge has been diluted with storm water from areas with little or no industrial activity.

The State Water Board does not want to preclude facility operators from developing better, and perhaps more cost-effective, monitoring programs. This General Permit allows facility operators to submit alternative monitoring programs for approval by the Regional Water Board. For individual facilities, these proposals must be facility specific and demonstrate how the alternative monitoring program will result in an equivalent or more accurate indicator of pollutants and/or BMP effectiveness. Facility operators with similar industrial activities may also propose alternative monitoring programs for approval by the Regional Water Boards. These proposals must demonstrate how the alternative monitoring program will result in an equivalent or more accurate indicator of pollutants and/or BMP effectiveness for all of the participating facilities.

Facility operators shall continue to comply with the existing monitoring program requirements until receiving approval by the Regional Water Board.

Group Monitoring

Each facility operator may either perform sampling and analysis individually or participate in a group monitoring program. A group monitoring program may be developed either by a group leader representing a group of similar facilities or by a local agency which holds a storm water permit for a municipal separate storm sewer system for industrial facilities within its jurisdiction. The group leader or local agency responsible for the group monitoring program must schedule all participating facilities to sample two storm events over the life of this General Permit. Facility operators subject to Federal effluent limitations guidelines in 40 CFR Subchapter N must individually sample and analyze for pollutants listed in the appropriate Federal regulations.

Participants within a group may be located within the jurisdiction of more than one Regional Water Board. Multi-Regional Water Board groups must receive the approval of the State Water Board Executive Director (with the concurrence of the appropriate Regional Water Boards).

Each group leader or local agency responsible for group sampling must: (1) provide guidance or training so that the monitoring is done correctly, (2) recommend appropriate BMPs to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges from group participants, (3) evaluate and report the monitoring data to the State Water Board and/or the appropriate Regional Water Board(s), and (4) conduct two on-site inspections at each facility over the five year term of this General Permit to evaluate facility compliance and recommend BMPs to achieve compliance with this General Permit. The group leader or local agency may designate, hire, or train inspectors to conduct these inspections that are or are not directly affiliated with the group leader or local agency. It is the group leader's or local agency's responsibility to select inspectors that are capable of evaluating each facility's compliance with the General Permit and can recommend appropriate BMPs. All group monitoring plans are subject to State Water Board and/or Regional Water Board(s) review. Consistent with the four-tier permitting strategy described in the Federal regulations, the Regional Water Board(s) may evaluate the data and results from group monitoring to establish future permitting decisions. As appropriate, the State Water Board and/or the Regional Water Board(s) may terminate or require substantial amendment to the group monitoring plans. The State Water Board and/or the Regional Water Board(s) may terminate a facility's participation in group monitoring or require additional monitoring activities.

Retention of Records

The facility operator is required to retain records of all monitoring information, copies of all reports required by this General Permit, and records of all data used to complete the NOI for a period of five years from the date of measurement, report, or monitoring activity. This period may be extended by the State and/or Regional Water Boards. All records are public documents and must be provided to the Regional Water Boards on request.

Watershed Management

The State and Regional Water Boards are undertaking a focussed effort in watershed management throughout the State. In reissuing this General Permit, the State Water Board recognizes both the evolving nature of watershed management and the long-term desirability of structuring monitoring programs to support the Watershed Management Initiative. Therefore, the amended monitoring and reporting provisions provide flexibility for individual facility operators or groups of facility operators to propose and participate in, subject to Regional Water Board approval, watershed monitoring programs in lieu of some or all of the monitoring requirements contained in this General Permit.

Facility Operator Compliance Responsibilities

This General Permit has been written to encourage individual facility operators to develop their own SWPPP and monitoring programs. Many facility operators, however, choose to obtain compliance assistance either by hiring a consultant on an individual basis or by participating in a group monitoring plan. Regardless of how a facility operator chooses to pursue compliance, it is the facility operator that is responsible for compliance with this General Permit.

The State Water Board recognizes that industrial activities and operating conditions at many facilities change over time. In addition, new and more effective BMPs are being developed by various facility operators and by industrial groups. The SWPPP and monitoring program requirements include various inspections, reviews, and observations all of which recognize, encourage, and mandate an iterative self-evaluation process that is necessary to consistently comply with this General Permit. In general, facility operators that develop and implement SWPPPs that comply with this General Permit should not be penalized when discovering minor violations through this iterative self-evaluation process. The General Permit provides facility operators up to 90 days to revise and implement the SWPPP to correct such violations.

STATE WATER RESOURCES CONTROL BOARD (STATE WATER BOARD)
WATER QUALITY ORDER NO. 97-03-DWQ
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
GENERAL PERMIT NO. CAS000001 (GENERAL PERMIT)

WASTE DISCHARGE REQUIREMENTS (WDRS)
FOR
DISCHARGES OF STORM WATER ASSOCIATED WITH INDUSTRIAL ACTIVITIES
EXCLUDING CONSTRUCTION ACTIVITIES

The State Water Board finds that:

1. Federal regulations for storm water discharges were issued by the U.S. Environmental Protection Agency (U.S. EPA) on November 16, 1990 (40 Code of Federal Regulations [CFR] Parts 122, 123, and 124). The regulations require operators of specific categories of facilities where discharges of storm water associated with industrial activity (storm water) occur to obtain an NPDES permit and to implement Best Available Technology Economically Achievable (BAT) and Best Conventional Pollutant Control Technology (BCT) to reduce or prevent pollutants associated with industrial activity in storm water discharges and authorized non-storm discharges.

2. This General Permit shall regulate storm water discharges and authorized non-storm water discharges from specific categories of industrial facilities identified in Attachment 1, storm water discharges and authorized non-storm water discharges from facilities as designated by the Regional Water Quality Control Boards (Regional Water Boards), and storm water discharges and authorized non-storm water discharges from other facilities seeking General Permit coverage. This General Permit may also regulate storm water discharges and authorized non-storm water discharges from facilities as required by U.S. EPA regulations. This General Permit shall regulate storm water discharges and authorized non-storm water discharges previously regulated by San Francisco Bay Regional Water Board Order, No.92-11 (as amended by Order No. 92-116). This General Permit excludes storm water discharges and non-storm water discharges that are regulated by other individual or general NPDES permits, storm water discharges and non-storm water discharges from construction activities, and storm water discharges and non-storm water discharges excluded by the Regional Water Boards for coverage by this General Permit. Attachment 2 contains the addresses and telephone numbers of each Regional Water Board office.

3. To obtain coverage for storm water discharges and authorized non-storm water discharges pursuant to this General Permit, operators of facilities (facility operators) must submit a Notice of Intent (NOI), in accordance with the Attachment 3

instructions, and appropriate annual fee to the State Water Board. This includes facility operators that have participated in U.S. EPA's group application process.

4. This General Permit does not preempt or supersede the authority of local agencies to prohibit, restrict, or control storm water discharges and authorized non-storm water discharges to storm drain systems or other water-courses within their jurisdictions as allowed by State and Federal law.

5. If an individual NPDES permit is issued to a facility operator otherwise subject to this General Permit or an alternative NPDES general permit is subsequently adopted which covers storm water discharges and/or authorized non-storm water discharges regulated by this General Permit, the applicability of this General Permit to such discharges is automatically terminated on the effective date of the individual NPDES permit or the date of approval for coverage under the subsequent NPDES general permit.

6. Effluent limitations and toxic and effluent standards established in Sections 208(b), 301, 302, 303(d), 304, 306, 307, and 403 of the Federal Clean Water Act (CWA), as amended, are applicable to storm water discharges and authorized non-storm water discharges regulated by this General Permit.

7. This action to adopt an NPDES general permit is exempt from the provisions of the California Environmental Quality Act (Public Resources Code Section 21100, et seq.) in accordance with Section 13389 of the California Water Code.

8. Federal regulations (40 CFR Subchapter N) establish effluent limitations guidelines for storm water discharges from some facilities in ten industrial categories.

9. For facilities which do not have established effluent limitation guidelines for storm water discharges in 40 CFR Subchapter N, it is not feasible at this time to establish numeric effluent limitations. This is due to the large number of discharges and the complex nature of storm water discharges. This is also consistent with the U.S. EPA's August 1, 1996 "Interim Permitting Approach for Water Quality Based Effluent Limitations in Storm Water Permits."

10. Facility operators are required to comply with the terms and conditions of this General Permit. Compliance with the terms and conditions of this General Permit constitutes compliance with BAT/BCT requirements and with requirements to achieve water quality standards. This includes the development and implementation of an effective Storm Water Pollution Prevention Plan (SWPPP) to reduce or prevent pollutants associated with industrial activity in storm water discharges and authorized non-storm water discharges.

11. Best Management Practices (BMPs) to reduce or prevent pollutants associated with industrial activity in storm water discharges and authorized non-storm water discharges are appropriate where numeric effluent limitations are infeasible, and the implementation of BMPs is adequate to achieve compliance with BAT/BCT and with water quality standards.

12. The State Water Board has adopted a Watershed Management Initiative that encourages watershed management throughout the State. This General Permit recognizes the Watershed Management Initiative by supporting the development of watershed monitoring programs authorized by the Regional Water Boards.

13. Following adoption of this General Permit, the Regional Water Boards shall enforce its provisions.

14. Following public notice in accordance with State and Federal laws and regulations, the State Water Board held a public hearing on November 12, 1996 and heard and considered all comments pertaining to this General Permit. A response to all significant comments has been prepared and is available for public review.

15. This Order is an NPDES General Permit in compliance with Section 402 of the CWA and shall take effect upon adoption by the State Water Board.

16. All terms that are defined in the CWA, U.S. EPA storm water regulations and the Porter-Cologne Water Quality Control Act will have the same definition in this General Permit unless otherwise stated.

IT IS HEREBY ORDERED that all facility operators required to be regulated by this General Permit shall comply with the following:

A. DISCHARGE PROHIBITIONS:

1. Except as allowed in Special Conditions (D.1.) of this General Permit, materials other than storm water (non-storm water discharges) that discharge either directly or indirectly to waters of the United States are prohibited. Prohibited non-storm water discharges must be either eliminated or permitted by a separate NPDES permit.

2. Storm water discharges and authorized non-storm water discharges shall not cause or threaten to cause pollution, contamination, or nuisance.

B. EFFLUENT LIMITATIONS:

1. Storm water discharges from facilities subject to storm water effluent limitation guidelines in Federal regulations (40 CFR

Subchapter N) shall not exceed the specified effluent limitations.

2. Storm water discharges and authorized non-storm water discharges regulated by this General Permit shall not contain a hazardous substance equal to or in excess of a reportable quantity listed in 40 CFR Part 117 and/or 40 CFR Part 302.

3. Facility operators covered by this General Permit must reduce or prevent pollutants associated with industrial activity in storm water discharges and authorized non-storm water discharges through implementation of BAT for toxic and non-conventional pollutants and BCT for conventional pollutants. Development and implementation of an SWPPP that complies with the requirements in Section A of the General Permit and that includes BMPs that achieve BAT/BCT constitutes compliance with this requirement.

C. RECEIVING WATER LIMITATIONS:

1. Storm water discharges and authorized non-storm water discharges to any surface or ground water shall not adversely impact human health or the environment.

2. Storm water discharges and authorized non-storm water discharges shall not cause or contribute to an exceedance of any applicable water quality standards contained in a Statewide Water Quality Control Plan or the applicable Regional Water Board's Basin Plan.

3. A facility operator will not be in violation of Receiving Water Limitation C.2. as long as the facility operator has implemented BMPs that achieve BAT/BCT and the following procedure is followed:

   a. The facility operator shall submit a report to the appropriate Regional Water Board that describes the BMPs that are currently being implemented and additional BMPs that will be implemented to prevent or reduce any pollutants that are causing or contributing to the exceedance of water quality standards. The report shall include an implementation schedule. The Regional Water Board may require modifications to the report.

   b. Following approval of the report described above by the Regional Water Board, the facility operator shall revise its SWPPP and monitoring program to incorporate the additional BMPs that have been and will be implemented, the implementation schedule, and any additional monitoring required.

4. A facility operator shall be in violation of this General Permit if he/she fails to do any of the following:

a. Submit the report described above within 60 days after either the facility operator or the Regional Water Board determines that discharges are causing or contributing to an exceedance of an applicable water quality standard;

b. Submit a report that is approved by the Regional Water Board; or

c. Revise its SWPPP and monitoring program as required by the approved report.

D. SPECIAL CONDITIONS

1. Non-Storm Water Discharges

a. The following non-storm water discharges are authorized by this General Permit provided that they satisfy the conditions specified in Paragraph b. below: fire hydrant flushing; potable water sources, including potable water related to the operation, maintenance, or testing of potable water systems; drinking fountain water; atmospheric condensates including refrigeration, air conditioning, and compressor condensate; irrigation drainage; landscape watering; springs; ground water; foundation or footing drainage; and sea water infiltration where the sea waters are discharged back into the sea water source.

b. The non-storm water discharges as provided in Paragraph a. above are authorized by this General Permit if all the following conditions are met:

i. The non-storm water discharges are in compliance with Regional Water Board requirements.

ii. The non-storm water discharges are in compliance with local agency ordinances and/or requirements.

iii. BMPs are specifically included in the SWPPP to (1) prevent or reduce the contact of non-storm water discharges with significant materials or equipment and (2) minimize, to the extent practicable, the flow or volume of non-storm water discharges.

iv. The non-storm water discharges do not contain significant quantities of pollutants.

v. The monitoring program includes quarterly visual observations of each non-storm water discharge and its sources to ensure that BMPs are being implemented and are effective.

vi. The non-storm water discharges are reported and described annually as part of the annual report.

c. The Regional Water Board or its designee may establish additional monitoring programs and reporting requirements for any non-storm water discharge authorized by this General Permit.

d. Discharges from firefighting activities are authorized by this General Permit and are not subject to the conditions of Paragraph b. above.

E. PROVISIONS

1. All facility operators seeking coverage by this General Permit must submit an NOI for each of the facilities they operate. Facility operators filing an NOI after the adoption of this General Permit shall use the NOI form and instructions (Attachment 3) attached to this General Permit. Existing facility operators who have filed an NOI pursuant to State Water Board Order No. 91-013-DWQ (as amended by Order No. 92-12-DWQ) or San Francisco Bay Regional Water Board Order No. 92-11 (as amended by Order No. 92-116) shall submit an abbreviated NOI form provided by the State Water Board. The abbreviated NOI form shall be submitted within 45 days of receipt.

2. Facility operators who have filed an NOI, pursuant to State Water Board Order No. 91-013-DWQ (as amended by Order No. 92-12-DWQ) or San Francisco Bay Regional Water Board Order No. 92-11 (as amended by Order No. 92-116), shall continue to implement their existing SWPPP and shall implement any necessary revisions to their SWPPP in accordance with Section A of this General Permit in a timely manner, but in no case later than August 1, 1997. Facility operators beginning industrial activities after adoption of this General Permit must develop and implement an SWPPP in accordance with Section A of this General Permit when the industrial activities begin.

3. Facility operators who have filed an NOI, pursuant to State Water Board Order No. 91-013-DWQ (as amended by Order No. 92-12-DWQ) or San Francisco Bay Regional Water Board Order No. 92-11 (as amended by Order No. 92-116), shall continue to implement their existing Monitoring Program and shall implement any necessary revisions to their Monitoring Program in accordance with Section B of the General Permit in a timely manner, but in no case later than August 1, 1997. Facility operators beginning industrial activities after adoption of this General Permit must develop and implement a Monitoring Program in

accordance with Section B of this General Permit when industrial activities begin.

4. Facility operators of feedlots as defined in 40 CFR Part 412 that are in full compliance with Section 2560 to Section 2565, Title 23, California Code of Regulations (Chapter 15) will be in compliance with all effluent limitations and prohibitions contained in this General Permit. Facility operators of feedlots that comply with Chapter 15, however, must perform monitoring in compliance with the requirements of Section B.4.d. and B.14. of this General Permit. Facility operators of feedlots must also comply with any Regional Water Board WDRs or NPDES general permit regulating their storm water discharges.

5. All facility operators must comply with lawful requirements of municipalities, counties, drainage districts, and other local agencies regarding storm water discharges and non-storm water discharges entering storm drain systems or other watercourses under their jurisdiction, including applicable requirements in municipal storm water management programs developed to comply with NPDES permits issued by the Regional Water Boards to local agencies.

6. All facility operators must comply with the standard provisions and reporting requirements for each facility covered by this General Permit contained in Section C, Standard Provisions.

7. Facility operators that operate facilities with co-located industrial activities (facilities that have industrial activities that meet more than one of the descriptions in Attachment 1) that are contiguous to one another are authorized to file a single NOI to comply with the General Permit. Storm water discharges and authorized non-storm water discharges from the co-located industrial activities are authorized if the SWPPP and Monitoring Program addresses each co-located industrial activity.

8. Upon reissuance of a successor NPDES general permit by the State Water Board, the facility operators subject to this reissued General Permit may be required to file an NOI.

9. Facility operators may request to terminate their coverage under this General Permit by filing a Notice of Termination (NOT) with the Regional Water Board. The NOT shall provide all documentation requested by the Regional Water Board. The facility operator will be notified when the NOT has been approved. Should the NOT be denied, facility operators are responsible for continued compliance with the requirements of this General Permit.

10. Facility operators who have filed an NOI, pursuant to State Water Board Order No. 91-013-DWQ (as amended by Order No. 92-12) or San Francisco Bay Regional Water Board Order No. 92-11 (as amended by Order No. 92-116) shall:

    a. Complete the 1996-97 activities required by those general permits. These include, but are not limited to, conducting any remaining visual observations, sample collection, annual site inspection, annual report submittal, and (for group monitoring leaders) Group Evaluation Reports; and

    b. Comply with the requirements of this General Permit no later than August 1, 1997.

11. If the Regional Water Board determines that a discharge may be causing or contributing to an exceedance of any applicable water quality standards contained in a Statewide Water Quality Control Plan or the applicable Regional Water Board's Basin Plan, the Regional Water Board may order the facility operator to comply with the requirements described in Receiving Water Limitation C.3. The facility operator shall comply with the requirements within the time schedule established by the Regional Water Board.

12. If the facility operator determines that its storm water discharges or authorized non-storm water discharges are causing or contributing to an exceedance of any applicable water quality standards, the facility operator shall comply with the requirements described in Receiving Water Limitation C.3.

13. State Water Board Order No. 91-013-DWQ (as amended by Order No. 92-12-DWQ) and San Francisco Bay Regional Water Board Order No. 91-011 (as amended by Order No. 92-116) are hereby rescinded.

F. REGIONAL WATER BOARD AUTHORITIES

1. Following adoption of this General Permit, Regional Water Boards shall:

    a. Implement the provisions of this General Permit, including, but not limited to, reviewing SWPPPs, reviewing annual reports, conducting compliance inspections, and taking enforcement actions.

    b. Issue other NPDES general permits or individual NPDES storm water permits as they deem appropriate to individual facility operators, facility operators of specific categories of industrial activities, or facility operators in a watershed or geographic area. Upon issuance of such NPDES permits by a Regional Water Board, the affected facility operator shall no longer

be regulated by this General Permit. Any new NPDES permit issued by the Regional Water Board may contain different requirements than the requirements of this General Permit.

2. Regional Water Boards may provide guidance to facility operators on the SWPPP and the Monitoring Program and reporting implementation.

3. Regional Water Boards may require facility operators to conduct additional SWPPP and Monitoring Program and reporting activities necessary to achieve compliance with this General Permit.

4. Regional Water Boards may approve requests from facility operators whose facilities include co-located industrial activities that are not contiguous within the facilities (e.g., some military bases) to comply with this General Permit under a single NOI. Storm water discharges and authorized non-storm water discharges from the co-located industrial activities and from other sources within the facility that may generate significant quantities of pollutants are authorized provided the SWPPP and Monitoring Program addresses each co-located industrial activity and other sources that may generate significant quantities of pollutants.

CERTIFICATION

The undersigned, Administrative Assistant to the State Water Board, does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of the State Water Resources Control Board held on April 17, 1997.

AYE: John P. Caffrey
John W. Brown
James M. Stubchaer
Marc Del Piero
Mary Jane Forster

NO: None

ABSENT: None

ABSTAIN: None

Maureen Marché

SECTION A: STORM WATER POLLUTION PREVENTION PLAN REQUIREMENTS

1. *Implementation Schedule*

A storm water pollution prevention plan (SWPPP) shall be developed and implemented for each facility covered by this General Permit in accordance with the following schedule.

a. Facility operators beginning industrial activities before October 1, 1992 shall develop and implement the SWPPP no later than October 1, 1992. Facility operators beginning industrial activities after October 1, 1992 shall develop and implement the SWPPP when industrial activities begin.

b. Existing facility operators that submitted a Notice of Intent (NOI), pursuant to State Water Resources Control Board (State Water Board) Order No. 91-013-DWQ (as amended by Order No. 92-12) or San Francisco Bay Regional Water Quality Control Board (Regional Water Board) Order No. 92-11 (as amended by Order No. 92-116), shall continue to implement their existing SWPPP and shall implement any necessary revisions to their SWPPP in a timely manner, but in no case later than August 1, 1997.

2. *Objectives*

The SWPPP has two major objectives: (a) to identify and evaluate sources of pollutants associated with industrial activities that may affect the quality of storm water discharges and authorized non-storm water discharges from the facility; and (b) to identify and implement site-specific best management practices (BMPs) to reduce or prevent pollutants associated with industrial activities in storm water discharges and authorized non-storm water discharges. BMPs may include a variety of pollution prevention measures or other low-cost and pollution control measures. They are generally categorized as non-structural BMPs (activity schedules, prohibitions of practices, maintenance procedures, and other low-cost measures) and as structural BMPs (treatment measures, run-off controls, over-head coverage.) To achieve these objectives, facility operators should consider the five phase process for SWPPP development and implementation as shown in Table A.

The SWPPP requirements are designed to be sufficiently flexible to meet the needs of various facilities. SWPPP requirements that are not applicable to a facility should not be included in the SWPPP.

A facility's SWPPP is a written document that shall contain a compliance activity schedule, a description of industrial activities and pollutant sources, descriptions of BMPs, drawings, maps, and relevant copies or references of parts of other plans. The SWPPP shall be revised whenever appropriate and shall be readily available for review by facility employees or Regional Water Board inspectors.

3. *Planning and Organization*

a. *Pollution Prevention Team*

The SWPPP shall identify a specific individual or individuals and their positions within the facility organization as members of a storm water pollution prevention team responsible for developing the SWPPP, assisting the facility manager in SWPPP implementation and revision, and conducting all monitoring program activities required in Section B of this General Permit. The SWPPP shall clearly identify the General Permit related responsibilities, duties, and activities of each team member. For small facilities, storm water pollution prevention teams may consist of one individual where appropriate.

b. *Review Other Requirements and Existing Facility Plans*

The SWPPP may incorporate or reference the appropriate elements of other regulatory requirements. Facility operators should review all local, State, and Federal requirements that impact, complement, or are consistent with the requirements of this General Permit. Facility operators should identify any existing facility plans that contain storm water pollutant control measures or relate to the requirements of this General Permit. As examples, facility operators whose facilities are subject to Federal Spill Prevention Control and Countermeasures' requirements should already have instituted a plan to control spills of certain hazardous materials. Similarly, facility operators whose facilities are subject to air quality related permits and regulations may already have evaluated industrial activities that generate dust or particulates.

4. *Site Map*

The SWPPP shall include a site map. The site map shall be provided on an 8-½ x 11 inch or larger sheet and include notes, legends, and other data as appropriate to ensure that the site map is clear and understandable. If necessary, facility operators may provide the required information on multiple site maps.

TABLE A
FIVE PHASES FOR DEVELOPING AND IMPLEMENTING INDUSTRIAL STORM WATER POLLUTION PREVENTION PLANS

PLANNING AND ORGANIZATION

*Form Pollution Prevention Team
*Review other plans

↓

ASSESSMENT PHASE

*Develop a site map
*Identify potential pollutant sources
*Inventory of materials and chemicals
*List significant spills and leaks
*Identify non-storm water discharges
*Assess pollutant Risks

↓

BEST MANAGEMENT PRACTICES IDENTIFICATION PHASE

*Non-structural BMPs
*Structural BMPs
*Select activity and site-specific BMPs

↓

IMPLEMENTATION PHASE

*Train employees
*Implement BMPs
*Conduct recordkeeping and reporting

↓

EVALUATION / MONITORING

*Conduct annual site evaluation
*Review monitoring information
*Evaluate BMPs
*Review and revise SWPPP

The following information shall be included on the site map:

a. The facility boundaries; the outline of all storm water drainage areas within the facility boundaries; portions of the drainage area impacted by run-on from surrounding areas; and direction of flow of each drainage area, on-site surface water bodies, and areas of soil erosion. The map shall also identify nearby water bodies (such as rivers, lakes, and ponds) and municipal storm drain inlets

where the facility's storm water discharges and authorized non-storm water discharges may be received.

b. The location of the storm water collection and conveyance system, associated points of discharge, and direction of flow. Include any structural control measures that affect storm water discharges, authorized non-storm water discharges, and run-on. Examples of structural control measures are catch basins, berms, detention ponds, secondary containment, oil/water separators, diversion barriers, etc.

c. An outline of all impervious areas of the facility, including paved areas, buildings, covered storage areas, or other roofed structures.

d. Locations where materials are directly exposed to precipitation and the locations where significant spills or leaks identified in Section A.6.a.iv. below have occurred.

e. Areas of industrial activity. This shall include the locations of all storage areas and storage tanks, shipping and receiving areas, fueling areas, vehicle and equipment storage/maintenance areas, material handling and processing areas, waste treatment and disposal areas, dust or particulate generating areas, cleaning and rinsing areas, and other areas of industrial activity which are potential pollutant sources.

5. *List of Significant Materials*

The SWPPP shall include a list of significant materials handled and stored at the site. For each material on the list, describe the locations where the material is being stored, received, shipped, and handled, as well as the typical quantities and frequency. Materials shall include raw materials, intermediate products, final or finished products, recycled materials, and waste or disposed materials.

6. *Description of Potential Pollutant Sources*

a. The SWPPP shall include a narrative description of the facility's industrial activities, as identified in Section A.4.e above, associated potential pollutant sources, and potential pollutants that could be discharged in storm water discharges or authorized non-storm water discharges. At a minimum, the following items related to a facility's industrial activities shall be considered:

i. Industrial Processes

Describe each industrial process, the type, characteristics, and quantity of significant materials used in or resulting from the process, and a description of the manufacturing, cleaning, rinsing, recycling, disposal, or other activities related to the process. Where applicable, areas protected by containment structures and the corresponding containment capacity shall be described.

ii. Material Handling and Storage Areas

Describe each handling and storage area, type, characteristics, and quantity of significant materials handled or stored, description of the shipping, receiving, and loading procedures, and the spill or leak prevention and response procedures. Where applicable, areas protected by containment structures and the corresponding containment capacity shall be described.

iii. Dust and Particulate Generating Activities

Describe all industrial activities that generate dust or particulates that may be deposited within the facility's boundaries and identify their discharge locations; the characteristics of dust and particulate pollutants; the approximate quantity of dust and particulate pollutants that may be deposited within the facility boundaries; and a description of the primary areas of the facility where dust and particulate pollutants would settle.

iv. Significant Spills and Leaks

Describe materials that have spilled or leaked in significant quantities in storm water discharges or non-storm water discharges since April 17, 1994. Include toxic chemicals (listed in 40 CFR, Part 302) that have been discharged to storm water as reported on U.S. Environmental Protection Agency (U.S. EPA) Form R, and oil and hazardous substances in excess of reportable quantities (see 40 Code of Federal Regulations [CFR], Parts 110, 117, and 302).

The description shall include the type, characteristics, and approximate quantity of the material spilled or leaked, the cleanup or remedial actions that have occurred or are planned, the approximate remaining quantity of materials that may be exposed to storm water or non-storm water

discharges, and the preventative measures taken to ensure spill or leaks do not reoccur. Such list shall be updated as appropriate during the term of this General Permit.

v. Non-Storm Water Discharges

Facility operators shall investigate the facility to identify all non-storm water discharges and their sources. As part of this investigation, all drains (inlets and outlets) shall be evaluated to identify whether they connect to the storm drain system.

All non-storm water discharges shall be described. This shall include the source, quantity, frequency, and characteristics of the non-storm water discharges and associated drainage area.

Non-storm water discharges that contain significant quantities of pollutants or that do not meet the conditions provided in Special Conditions D. are prohibited by this General Permit (Examples of prohibited non-storm water discharges are contact and non-contact cooling water, boiler blowdown, rinse water, wash water, etc.). Non-storm water discharges that meet the conditions provided in Special Condition D. are authorized by this General Permit. The SWPPP must include BMPs to prevent or reduce contact of non-storm water discharges with significant materials or equipment.

vi. Soil Erosion

Describe the facility locations where soil erosion may occur as a result of industrial activity, storm water discharges associated with industrial activity, or authorized non-storm water discharges.

b. The SWPPP shall include a summary of all areas of industrial activities, potential pollutant sources, and potential pollutants. This information should be summarized similar to Table B. The last column of Table B, "Control Practices", should be completed in accordance with Section A.8. below.

7. *Assessment of Potential Pollutant Sources*

a. The SWPPP shall include a narrative assessment of all industrial activities and potential pollutant sources as described in A.6. above to determine:

i. Which areas of the facility are likely sources of

pollutants in storm water discharges and authorized non-storm water discharges, and

ii. Which pollutants are likely to be present in storm water discharges and authorized non-storm water discharges. Facility operators shall consider and evaluate various factors when performing this assessment such as current storm water BMPs; quantities of significant materials handled, produced, stored, or disposed of; likelihood of exposure to storm water or authorized non-storm water discharges; history of spill or leaks; and run-on from outside sources.

b. Facility operators shall summarize the areas of the facility that are likely sources of pollutants and the corresponding pollutants that are likely to be present in storm water discharges and authorized non-storm water discharges.

Facility operators are required to develop and implement additional BMPs as appropriate and necessary to prevent or reduce pollutants associated with each pollutant source. The BMPs will be narratively described in Section 8 below.

8. *Storm Water Best Management Practices*

The SWPPP shall include a narrative description of the storm water BMPs to be implemented at the facility for each potential pollutant and its source identified in the site assessment phase (Sections A.6. and 7. above). The BMPs shall be developed and implemented to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. Each pollutant and its source may require one or more BMPs. Some BMPs may be implemented for multiple pollutants and their sources, while other BMPs will be implemented for a very specific pollutant and its source.

TABLE B
EXAMPLE
ASSESSMENT OF POTENTIAL POLLUTION SOURCES AND CORRESPONDING BEST MANAGEMENT PRACTICES
SUMMARY

Area	Activity	Pollutant Source	Pollutant	Best Management Practices
Vehicle & Equipment Fueling	Fueling	Spills and leaks during delivery	fuel oil	- Use spill and overflow protection - Minimize run-on of storm water into the fueling area - Cover fueling area - Use dry cleanup methods rather than hosing down area - Implement proper spill prevention control program - Implement adequate preventative maintenance program to preventive tank and line leaks - Inspect fueling areas regularly to detect problems before they occur - Train employees on proper fueling, cleanup, and spill response techniques.
		Spills caused by topping off fuel tanks	fuel oil	
		Hosing or washing down fuel area	fuel oil	
		Leaking storage tanks	fuel oil	
		Rainfall running off fueling area, and rainfall running onto and off fueling area	fuel oil	

The description of the BMPs shall identify the BMPs as (1) existing BMPs, (2) existing BMPs to be revised and implemented, or (3) new BMPs to be implemented. The description shall also include a discussion on the effectiveness of each BMP to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. The SWPPP shall provide a summary of all BMPs implemented for each pollutant source. This information should be summarized similar to Table B.

Facility operators shall consider the following BMPs for implementation at the facility:

a. Non-Structural BMPs

Non-structural BMPs generally consist of processes, prohibitions, procedures, schedule of activities, etc., that prevent pollutants associated with industrial activity from contacting with storm water discharges and authorized non-storm water discharges. They are considered low technology, cost-effective measures. Facility operators should consider all possible non-structural BMPs options before considering additional structural BMPs (see Section A.8.b. below). Below is a list of non-structural BMPs that should be considered:

i. Good Housekeeping

Good housekeeping generally consist of practical procedures to maintain a clean and orderly facility.

ii. Preventive Maintenance

Preventive maintenance includes the regular inspection and maintenance of structural storm water controls (catch basins, oil/water separators, etc.) as well as other facility equipment and systems.

iii. Spill Response

This includes spill clean-up procedures and necessary clean-up equipment based upon the quantities and locations of significant materials that may spill or leak.

iv. Material Handling and Storage

This includes all procedures to minimize the potential for spills and leaks and to minimize exposure of significant materials to storm water and authorized non-storm water discharges.

v. Employee Training

This includes training of personnel who are responsible for (1) implementing activities identified in the SWPPP, (2) conducting inspections, sampling, and visual observations, and (3) managing storm water. Training should address topics such as spill response, good housekeeping, and material handling procedures, and actions necessary to implement all BMPs identified in the SWPPP. The SWPPP shall identify periodic dates for such training. Records shall be maintained of all training sessions held.

vi. Waste Handling/Recycling

This includes the procedures or processes to handle, store, or dispose of waste materials or recyclable materials.

vii. Recordkeeping and Internal Reporting

This includes the procedures to ensure that all records of inspections, spills, maintenance activities, corrective actions, visual observations, etc., are developed, retained, and provided, as necessary, to the appropriate facility personnel.

viii. Erosion Control and Site Stabilization

This includes a description of all sediment and erosion control activities. This may include the planting and maintenance of vegetation, diversion of run-on and runoff, placement of sandbags, silt screens, or other sediment control devices, etc.

ix. Inspections

This includes, in addition to the preventative maintenance inspections identified above, an inspection schedule of all potential pollutant sources. Tracking and follow-up procedures shall be described to ensure adequate corrective actions are taken and SWPPPs are made.

x. Quality Assurance

This includes the procedures to ensure that all elements of the SWPPP and Monitoring Program are adequately conducted.

b. Structural BMPs

Where non-structural BMPs as identified in Section A.8.a. above are not effective, structural BMPs shall be considered. Structural BMPs generally consist of structural devices that reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. Below is a list of structural BMPs that should be considered:

i. Overhead Coverage

This includes structures that provide horizontal coverage of materials, chemicals, and pollutant sources from contact with storm water and authorized non-storm water discharges.

ii. Retention Ponds

This includes basins, ponds, surface impoundments, bermed areas, etc. that do not allow storm water to discharge from the facility.

iii. Control Devices

This includes berms or other devices that channel or route run-on and runoff away from pollutant sources.

iv. Secondary Containment Structures

This generally includes containment structures around storage tanks and other areas for the purpose of collecting any leaks or spills.

v. Treatment

This includes inlet controls, infiltration devices, oil/water separators, detention ponds, vegetative swales, etc. that reduce the pollutants in storm water discharges and authorized non-storm water discharges.

9. Annual Comprehensive Site Compliance Evaluation

The facility operator shall conduct one comprehensive site compliance evaluation (evaluation) in each reporting period (July 1-June 30). Evaluations shall be conducted within 8-16 months of each other. The SWPPP shall be revised, as appropriate, and the revisions implemented within 90 days of the evaluation. Evaluations shall include the following:

a. A review of all visual observation records, inspection records, and sampling and analysis results.

b. A visual inspection of all potential pollutant sources for evidence of, or the potential for, pollutants entering the drainage system.

c. A review and evaluation of all BMPs (both structural and non-structural) to determine whether the BMPs are adequate, properly implemented and maintained, or whether additional BMPs are needed. A visual inspection of equipment needed to implement the SWPPP, such as spill response equipment, shall be included.

d. An evaluation report that includes, (i) identification of personnel performing the evaluation, (ii) the date(s) of the evaluation, (iii) necessary SWPPP revisions, (iv) schedule, as required in Section A.10.e, for implementing SWPPP revisions, (v) any incidents of non-compliance and the corrective actions taken, and (vi) a certification that the facility operator is in compliance with this General Permit. If the above certification cannot be provided, explain in the evaluation report why the facility operator is not in compliance with this General Permit. The evaluation report shall be submitted as part of the annual report, retained for at least five years, and signed and certified in accordance with Standard Provisions 9. and 10. of Section C. of this General Permit.

10. *SWPPP General Requirements*

a. The SWPPP shall be retained on site and made available upon request of a representative of the Regional Water Board and/or local storm water management agency (local agency) which receives the storm water discharges.

b. The Regional Water Board and/or local agency may notify the facility operator when the SWPPP does not meet one or more of the minimum requirements of this Section. As requested by the Regional Water Board and/or local agency, the facility operator shall submit an SWPPP revision and implementation schedule that meets the minimum requirements of this section to the Regional Water Board and/or local agency that requested the SWPPP revisions. Within 14 days after implementing the required SWPPP revisions, the facility operator shall provide written certification to the Regional Water Board and/or local agency that the revisions have been implemented.

c. The SWPPP shall be revised, as appropriate, and implemented prior to changes in industrial activities which (i) may significantly increase the quantities of pollutants in storm water discharge, (ii) cause a new area of industrial activity at the facility to be exposed to storm water, or (iii) begin an industrial activity which would introduce a new pollutant source at the facility.

d. Other than as provided in Provisions B.11, B.12, and E.2 of the General Permit, the SWPPP shall be revised and implemented in a timely manner, but in no case more than 90 days after a facility operator determines that the SWPPP is in violation of any requirement(s) of this General Permit.

e. When any part of the SWPPP is infeasible to implement by the deadlines specified in Provision E.2 or Sections A.1, A.9, A.10.c, and A.10.d of this General Permit due to proposed significant structural changes, the facility operator shall submit a report to the Regional Water Board prior to the applicable deadline that (i) describes the portion of the SWPPP that is infeasible to implement by the deadline, (ii) provides justification for a time extension, (iii) provides a schedule for completing and implementing that portion of the SWPPP, and (iv) describes the BMPs that will be implemented in the interim period to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. Such reports are subject to Regional Water Board approval and/or modifications. Facility operators shall provide written notification to the Regional Water Board within 14 days after the SWPPP revisions are implemented.

f. The SWPPP shall be provided, upon request, to the Regional Water Board. The SWPPP is considered a report that shall be available to the public by the Regional Water Board under Section 308(b) of the Clean Water Act.

SECTION B. MONITORING PROGRAM AND REPORTING REQUIREMENTS

1. *Implementation Schedule*

Each facility operator shall develop a written monitoring program for each facility covered by this General Permit in accordance with the following schedule:

a. Facility operators beginning industrial activities before October 1, 1992 shall develop and implement a monitoring program no later than October 1, 1992. Facility operators beginning operations after October 1, 1992 shall develop and implement a monitoring program when the industrial activities begin.

b. Facility operators that submitted a Notice Of Intent (NOI) pursuant to State Water Resources Control Board (State Water Board) Order No. 91-013-DWQ (as amended by Order No. 92-12) or San Francisco Bay Regional Water Quality Control Board (Regional Water Board) Order No. 92-11 (as amended by Order No. 92-116), shall continue to implement their existing monitoring program and implement any necessary revisions to their monitoring program in a timely manner, but in no case later than August 1, 1997. These facility operators may use the monitoring results conducted in accordance with those expired general permits to satisfy the pollutant/parameter reduction requirements in Section B.5.c., Sampling and Analysis Exemptions and Reduction certifications in Section B.12., and Group Monitoring Sampling credits in B.15.k. For facilities beginning industrial activities after the adoption of this General Permit, the monitoring program shall be developed and implemented when the facility begins the industrial activities.

2. *Objectives*

The objectives of the monitoring program are to:

a. Ensure that storm water discharges are in compliance with the Discharge Prohibitions, Effluent Limitations, and Receiving Water Limitations specified in this General Permit.

b. Ensure practices at the facility to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges are evaluated and revised to meet changing conditions.

c. Aid in the implementation and revision of the SWPPP required by Section A of this General Permit.

d. Measure the effectiveness of best management practices (BMPs) to prevent or reduce pollutants in storm water

discharges and authorized non-storm water discharges. Much of the information necessary to develop the monitoring program, such as discharge locations, drainage areas, pollutant sources, etc., should be found in the Storm Water Pollution Prevention Plan (SWPPP). The facility's monitoring program shall be a written, site-specific document that shall be revised whenever appropriate and be readily available for review by employees or Regional Water Board inspectors.

3. *Non-storm Water Discharge Visual Observations*

a. Facility operators shall visually observe all drainage areas within their facilities for the presence of unauthorized non-storm water discharges;

b. Facility operators shall visually observe the facility's authorized non-storm water discharges and their sources;

c. The visual observations required above shall occur quarterly, during daylight hours, on days with no storm water discharges, and during scheduled facility operating hours[1]. Quarterly visual observations shall be conducted in each of the following periods: January-March, April-June, July-September, and October-December. Facility operators shall conduct quarterly visual observations within 6-18 weeks of each other.

d. Visual observations shall document the presence of any discolorations, stains, odors, floating materials, etc., as well as the source of any discharge. Records shall be maintained of the visual observation dates, locations observed, observations, and response taken to eliminate unauthorized non-storm water discharges and to reduce or prevent pollutants from contacting non-storm water discharges. The SWPPP shall be revised, as necessary, and implemented in accordance with Section A of this General Permit.

4. *Storm Water Discharge Visual Observations*

a. With the exception of those facilities described in Section B.4.d. below, facility operators shall visually

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[1] "Scheduled facility operating hours" are the time periods when the facility is staffed to conduct any function related to industrial activity, but excluding time periods where only routine maintenance, emergency response, security, and/or janitorial services are performed.

observe storm water discharges from one storm event per month during the wet season (October 1-May 30). These visual observations shall occur during the first hour of discharge and at all discharge locations. Visual observations of stored or contained storm water shall occur at the time of release.

b. Visual observations are only required of storm water discharges that occur during daylight hours that are preceded by at least three (3) working days[2] without storm water discharges and that occur during scheduled facility operating hours.

c. Visual observations shall document the presence of any floating and suspended material, oil and grease, discolorations, turbidity, odor, and source of any pollutants. Records shall be maintained of observation dates, locations observed, observations, and response taken to reduce or prevent pollutants in storm water discharges. The SWPPP shall be revised, as necessary, and implemented in accordance with Section A of this General Permit.

d. Feedlots (subject to Federal effluent limitations guidelines in 40 Code of Federal Regulations [CFR] Part 412) that are in compliance with Sections 2560 to 2565, Article 6, Chapter 15, Title 23, California Code of Regulations, and facility operators with storm water containment facilities shall conduct monthly inspections of their containment areas to detect leaks and ensure maintenance of adequate freeboard. Records shall be maintained of the inspection dates, observations, and any response taken to eliminate leaks and to maintain adequate freeboard.

5. *Sampling and Analysis*

a. Facility operators shall collect storm water samples during the first hour of discharge from (1) the first storm event of the wet season, and (2) at least one other storm event in the wet season. All storm water discharge locations shall be sampled. Sampling of stored or contained storm water shall occur at the time the stored or contained storm water is released. Facility operators that do not collect samples from the first storm event of the wet season are still required to collect samples from two other storm events of the wet season and shall explain in the Annual Report why the first storm event was not sampled.

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[2] Three (3) working days may be separated by non-working days such as weekends and holidays provided that no storm water discharges occur during the three (3) working days and the non-working days.

b. Sample collection is only required of storm water discharges that occur during scheduled facility operating hours and that are preceded by at least (3) three working days without storm water discharge.

c. The samples shall be analyzed for:

i. Total suspended solids (TSS) pH, specific conductance, and total organic carbon (TOC). Oil and grease (O&G) may be substituted for TOC; and

ii. Toxic chemicals and other pollutants that are likely to be present in storm water discharges in significant quantities. If these pollutants are not detected in significant quantities after two consecutive sampling events, the facility operator may eliminate the pollutant from future sample analysis until the pollutant is likely to be present again; and

iii. Other analytical parameters as listed in Table D (located at the end of this Section). These parameters are dependent on the facility's standard industrial classification (SIC) code. Facility operators are not required to analyze a parameter listed in Table D when the parameter is not already required to be analyzed pursuant to Section B.5.c.i. and ii. or B.6 of this General Permit, and either of the two following conditions are met: (1) the parameter has not been detected in significant quantities from the last two consecutive sampling events, or (2) the parameter is not likely to be present in storm water discharges and authorized non-storm water discharges in significant quantities based upon the facility operator's evaluation of the facilities industrial activities, potential pollutant sources, and SWPPP. Facility operators that do not analyze for the applicable Table D parameters shall certify in the Annual Report that the above conditions have been satisfied.

iv. Other parameters as required by the Regional Water Board.

6. *Facilities Subject to Federal Storm Water Effluent Limitation Guidelines*

Facility operators with facilities subject to Federal storm water effluent limitation guidelines, in addition to the requirements in Section B.5. above, must complete the following:

a. Collect and analyze two samples for any pollutant specified in the appropriate category of 40 CFR Subchapter N. The sampling and analysis exemptions and reductions described in Section B.12. of this General Permit do not apply to these pollutants.

b. Estimate or calculate the volume of storm water discharges from each drainage area;

c. Estimate or calculate the mass of each regulated pollutant as defined in the appropriate category of 40 CFR Subchapter N; and

d. Identify the individual(s) performing the estimates or calculations in accordance with Subsections b. and c. above.

7. *Sample Storm Water Discharge Locations*

a. Facility operators shall visually observe and collect samples of storm water discharges from all drainage areas that represent the quality and quantity of the facility's storm water discharges from the storm event.

b. If the facility's storm water discharges are commingled with run-on from surrounding areas, the facility operator should identify other visual observation and sample collection locations that have not been commingled by run-on and that represent the quality and quantity of the facility's storm water discharges from the storm event.

c. If visual observation and sample collection locations are difficult to observe or sample (e.g., sheet flow, submerged outfalls), facility operators shall identify and collect samples from other locations that represent the quality and quantity of the facility's storm water discharges from the storm event.

d. Facility operators that determine that the industrial activities and BMPs within two or more drainage areas are substantially identical may either (i) collect samples from a reduced number of substantially identical drainage areas, or (ii) collect samples from each substantially identical drainage area and analyze a combined sample from each substantially identical drainage area. Facility operators must document such a determination in the annual report.

8. *Visual Observation and Sample Collection Exceptions*

Facility operators are required to be prepared to collect samples and conduct visual observations at the beginning of the wet season (October 1) and throughout the wet season

until the minimum requirements of Sections B.4. and B.5. are completed with the following exceptions:

a. A facility operator is not required to collect a sample and conduct visual observations in accordance with Section B.4 and Section B.5 due to dangerous weather conditions, such as flooding, electrical storm, etc., when storm water discharges begin after scheduled facility operating hours or when storm water discharges are not preceded by three working days without discharge. Visual observations are only required during daylight hours. Facility operators that do not collect the required samples or visual observations during a wet season due to these exceptions shall include an explanation in the Annual Report why the sampling or visual observations could not be conducted.

b. A facility operator may conduct visual observations and sample collection more than one hour after discharge begins if the facility operator determines that the objectives of this Section will be better satisfied. The facility operator shall include an explanation in the Annual Report why the visual observations and sample collection should be conducted after the first hour of discharge.

9. *Alternative Monitoring Procedures*

Facility operators may propose an alternative monitoring program that meets Section B.2 monitoring program objectives for approval by the Regional Water Board. Facility operators shall continue to comply with the monitoring requirements of this Section and may not implement an alternative monitoring plan until the alternative monitoring plan is approved by the Regional Water Board. Alternative monitoring plans are subject to modification by the Regional Water Boards.

10. *Monitoring Methods*

a. Facility operators shall explain how the facility's monitoring program will satisfy the monitoring program objectives of Section B.2. This shall include:

i. Rationale and description of the visual observation methods, location, and frequency.

ii. Rationale and description of the sampling methods, location, and frequency; and

iii. Identification of the analytical methods and corresponding method detection limits used to detect pollutants in storm water discharges. This shall include justification that the method detection limits are adequate to satisfy the objectives of the monitoring program.

b. All sampling and sample preservation shall be in accordance with the current edition of "Standard Methods for the Examination of Water and Wastewater" (American Public Health Association). All monitoring instruments and equipment (including a facility operator's own field instruments for measuring pH and Electro Conductivity) shall be calibrated and maintained in accordance with manufacturers' specifications to ensure accurate measurements. All laboratory analyses must be conducted according to test procedures under 40 CFR Part 136, unless other test procedures have been specified in this General Permit or by the Regional Water Board. All metals shall be reported as total metals. With the exception of analysis conducted by facility operators, all laboratory analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services. Facility operators may conduct their own sample analyses if the facility operator has sufficient capability (qualified employees, laboratory equipment, etc.) to adequately perform the test procedures.

11. *Inactive Mining Operations*

Inactive mining operations are defined in Attachment 1 of this General Permit. Where comprehensive site compliance evaluations, non-storm water discharge visual observations, storm water discharge visual observations, and storm water sampling are impracticable, facility operators of inactive mining operations may instead obtain certification once every three years by a Registered Professional Engineer that an SWPPP has been prepared for the facility and is being implemented in accordance with the requirements of this General Permit. By means of these certifications, the Registered Professional Engineer having examined the facility and being familiar with the provisions of this General Permit shall attest that the SWPPP has been prepared in accordance with good engineering practices. Facility operators of mining operations who cannot obtain a certification because of noncompliance must notify the appropriate Regional Water Board and, upon request, the local agency which receives the storm water discharge.

12. *Sampling and Analysis* Exemptions and Reductions

A facility operator who qualifies for sampling and analysis exemptions, as described below in Section B.12.a.i., or who qualifies for reduced sampling and analysis, as described below in Section B.12.b., must submit the appropriate certifications and required documentation to the Regional Water Boards prior to the wet season (October 1) and recertify as part of the Annual Report submittal. A facility operator that qualifies for either the Regional Water Board or local agency certification programs, as described below in Section B.12.a.ii. and iii., shall submit certification and documentation in accordance with the requirements of those programs. Facility operators who provide certifications in accordance with this Section are still required to comply with all other monitoring program and reporting requirements. Facility operators shall prepare and submit their certifications using forms and instructions provided by the State Water Board, Regional Water Board, or local agency or shall submit their information on a form that contains equivalent information. Facility operators whose facility no longer meets the certification conditions must notify the Regional Water Boards (and local agency) within 30 days and immediately comply with the Section B.5. sampling and analysis requirements. Should a Regional Water Board (or local agency) determine that a certification does not meet the conditions set forth below, facility operators must immediately comply with the Section B.5. sampling and analysis requirements.

a. Sampling and Analysis Exemptions

A facility operator is not required to collect and analyze samples in accordance with Section B.5. if the facility operator meets all of the conditions of one of the following certification programs:

i. No Exposure Certification (NEC)

This exemption is designed primarily for those facilities where all industrial activities are conducted inside buildings and where all materials stored and handled are not exposed to storm water. To qualify for this exemption, facility operators must certify that their facilities meet all of the following conditions:

(1) All prohibited non-storm water discharges have been eliminated or otherwise permitted.

(2) All authorized non-storm water discharges have been identified and addressed in the SWPPP.

(3) All areas of past exposure have been inspected and cleaned, as appropriate.

(4) All significant materials related to industrial activity (including waste materials) are not exposed to storm water or authorized non-storm water discharges.

(5) All industrial activities and industrial equipment are not exposed to storm water or authorized non-storm water discharges.

(6) There is no exposure of storm water to significant materials associated with industrial activity through other direct or indirect pathways such as from industrial activities that generate dust and particulates.

(7) There is periodic re-evaluation of the facility to ensure conditions (1), (2), (4), (5), and (6) above are continuously met. At a minimum, re-evaluation shall be conducted once a year.

ii. Regional Water Board Certification Programs

The Regional Water Board may grant an exemption to the Section B.5. Sampling and Analysis Requirements if it determines a facility operator has met the conditions set forth in a Regional Water Board certification program. Regional Water Board certification programs may include conditions to (1) exempt facility operators whose facilities infrequently discharge storm water to waters of the United States, and (2) exempt facility operators

that demonstrate compliance with the terms and conditions of this General Permit.

iii. Local Agency Certifications

A local agency may develop a local agency certification program. Such programs must be approved by the Regional Water Board. An approved local agency program may either grant an exemption

from the Section B.5. Sampling and Analysis Requirements or reduce the frequency of sampling if it determines that a facility operator has demonstrated compliance with the terms and conditions of this General Permit.

b. Sampling and Analysis Reduction

i. A facility operator may reduce the number of sampling events required to be sampled for the remaining term of this General Permit if the facility operator provides certification that the following conditions have been met:

(1) The facility operator has collected and analyzed samples from a minimum of six storm events from all required drainage areas;

(2) All prohibited non-storm water discharges have been eliminated or otherwise permitted;

(3) The facility operator demonstrates compliance with the terms and conditions of the General Permit for the previous two years (i.e., completed Annual Reports, performed visual observations, implemented appropriate BMPs, etc.);

(4) The facility operator demonstrates that the facility's storm water discharges and authorized non-storm water discharges do not contain significant quantities of pollutants; and

(5) Conditions (2), (3), and (4) above are expected to remain in effect for a minimum of one year after filing the certification.

ii. Unless otherwise instructed by the Regional Water Board, facility operators shall collect and analyze samples from two additional storm events (or one additional storm event when certification filed for the wet season beginning October 1, 2001) during the remaining term of this General Permit in accordance with Table C below. Facility operators shall collect samples of the first

storm event of the wet season. Facility operators that do not collect samples from the first storm event of the wet season shall collect samples from another storm event during the same wet season. Facility operators that do not collect a sample in a required wet season shall collect the sample from another storm event in the next wet season. Facility operators shall explain in the Annual Report why the first storm event of a wet season was not sampled or a sample was not taken from any storm event in accordance with the Table C schedule.

Table C
REDUCED MONITORING SAMPLING SCHEDULE

Facility Operator Filing Sampling Reduction Certification By	Samples Shall be Collected and Analyzed in These Wet Seasons	
	Sample 1	Sample 2
Oct. 1, 1997	Oct. 1, 1997-May 31, 1998	Oct. 1, 1999-May 31, 2000
Oct. 1, 1998	Oct. 1, 1998-May 31, 1999	Oct. 1, 2000-May 31, 2001
Oct. 1, 1999	Oct. 1, 1999-May 31, 2000	Oct. 1, 2001-May 31, 2002
Oct. 1, 2000	Oct. 1, 2000-May 31, 2001	Oct. 1, 2001-May 31, 2002
Oct. 1, 2001	Oct. 1, 2001-May 31, 2002	-

13. *Records*

Records of all storm water monitoring information and copies of all reports (including the Annual Reports) required by this General Permit shall be retained for a period of at least five years. These records shall include:

a. The date, place, and time of site inspections, sampling, visual observations, and/or measurements;

b. The individual(s) who performed the site inspections, sampling, visual observations, and or measurements;

c. Flow measurements or estimates (if required by Section B.6);

d. The date and approximate time of analyses;

e. The individual(s) who performed the analyses;

f. Analytical results, method detection limits, and the analytical techniques or methods used;

g. Quality assurance/quality control records and results;

h. Non-storm water discharge inspections and visual observations and storm water discharge visual observation records (see Sections B.3. and 4.);

i. Visual observation and sample collection exception records (see Section B.5.a, 7.d, 8, and 12.b.ii.);

j. All calibration and maintenance records of on-site instruments used;

k. All Sampling and Analysis Exemption and Reduction certifications and supporting documentation (see Section B.12);

l. The records of any corrective actions and follow-up activities that resulted from the visual observations.

14. *Annual Report*

All facility operators shall submit an Annual Report by July 1 of each year to the Executive Officer of the Regional Water Board responsible for the area in which the facility is located and to the local agency (if requested).

The report shall include a summary of visual observations and sampling results, an evaluation of the visual observation and sampling and analysis results, laboratory reports, the Annual Comprehensive Site Compliance Evaluation Report required in Section A.9., an explanation of why a facility did not implement any activities required by the General Permit (if not already included in the Evaluation Report), and records specified in Section B.13.i. The method detection limit of each analytical parameter shall be included. Analytical results that are less than the method detection limit shall be reported as "less than the method detection limit." The Annual Report shall be signed and certified in accordance with Standard Provisions 9. and 10. of Section C of this General Permit. Facility operators shall prepare and submit their Annual Reports using the annual report forms provided by the State Water Board or Regional Water Board or shall submit their information on a form that contains equivalent information.

15. *Group Monitoring*

Facility operators may participate in group monitoring as described below. A facility operator that participates in group monitoring shall develop and implement a written site-specific SWPPP and monitoring program in accordance with the General Permit and must satisfy any group monitoring requirements. Group monitoring shall be subject to the following requirements:

a. A group monitoring plan (GMP) shall be developed and implemented by a group leader representing a group of

similar facility operators regulated by this General Permit or by a local agency which holds an NPDES permit (local agency permittee) for a municipal separate storm sewer system. GMPs with participants that discharge storm water within the boundaries of a single Regional Water Board shall be approved by that Regional Water Board. GMPs with participants that discharge storm water within the boundaries of multiple Regional Water Boards shall be approved by the State Water Board. The State Water Board and/or Regional Water Board(s) may disapprove a facility's participation in a GMP or require a GMP participant to conduct additional monitoring activities.

b. Each GMP participant shall collect and analyze samples from at least two storm events in accordance with Section B.5. over the five-year period of this General Permit. The two storm event minimum applies to new and existing members. The group leader or local agency permittee shall schedule sampling to meet the following conditions: (i) to evenly distribute the sample collection over the five-year term of this General Permit, and (ii) to collect samples from the two storm events at each participant's facility in different and non-consecutive wet seasons. New participants who join in Years 4 and 5 of this General Permit are not subject to Condition (ii) above. Group leaders shall explain in the annual Group Evaluation Report why any scheduled samples were not collected and reschedule the sampling so that all required samples are collected during the term of this General Permit.

c. The group leader or local agency permittee must have the appropriate resources to develop and implement the GMP. The group leader or local agency permittee must also have the authority to terminate any participant who is not complying with this General Permit and the GMP.

d. The group leader or local agency permittee is responsible for:

   i. Developing, implementing, and revising the GMP;

   ii. Developing and submitting an annual Group Evaluation Report to the State Water Board and/or Regional Water Board by August 1 of each year that includes:

      (1) An evaluation and summary of all group monitoring data,

      (2) An evaluation of the overall performance of the GMP participants in complying with this General Permit and the GMP,

(3) Recommended baseline and site-specific BMPs that should be considered by each participant based upon Items (1) and (2) above, and

(4) A copy of each evaluation report and recommended BMPs as required in Section B.15.d.v. below.

iii. Recommending appropriate BMPs to reduce or prevent pollutants associated with industrial activities in storm water discharges and authorized non-storm water discharges;

iv. Assisting each participant in completing their Annual Comprehensive Site Compliance Evaluation and Annual Report;

v. Conducting a minimum of two on-site inspections of each participant's facility (it is recommended that these inspections be scheduled during the Annual Comprehensive Site Compliance Evaluation) during the term of this General Permit to evaluate the participant's compliance with this General Permit and the GMP, and to recommend any additional BMPs necessary to achieve compliance with this General Permit. Participants that join in Years 4 and 5 shall be scheduled for one evaluation. A copy of the evaluation and recommended BMPs shall be provided to the participants;

vi. Submitting a GMP (or revisions, as necessary), to the appropriate Regional Water Board(s) and State Water Board no later than September 1, 1997 (or August 1 in subsequent years). Once approved, a group leader or local agency permittee shall submit a letter of intent by August 1 of each year to continue the approved GMP. The letter of intent must include a roster of participants, participant's Waste Discharge Identification number (WDID#), updated sampling schedules, and any other revisions to the GMP;

vii. Revising the GMP as instructed by the Regional Water Board or the State Water Board; and

viii. Providing the State Water Board and/or Regional Water Board with quarterly updates of any new or deleted participants and corresponding changes in the sampling and inspection schedule.

e. The GMP shall:

i. Identify the participants of the GMP by name, location, and WDID number;

ii. Include a narrative description summarizing the industrial activities of participants of the GMP and explain why the participants, as a whole, have sufficiently similar industrial activities and BMPs to be covered by a group monitoring plan;

iii. Include a list of typical potential pollutant sources associated with the group participant's facilities and recommended baseline BMPs to prevent or reduce pollutants associated with industrial activity in the storm water discharges and authorized non-storm water discharges;

iv. Provide a five-year sampling and inspection schedule in accordance with Subsections b. and d.v. above.

v. Identify the pollutants associated with industrial activity that shall be analyzed at each participant's facility in accordance with Section B.5. The selection of these pollutants shall be based upon an assessment of each facility's potential pollutant sources and likelihood that pollutants associated with industrial activity will be present in storm water discharges and authorized non-storm water discharges in significant quantities.

f. Sampling and analysis shall be conducted in accordance with the applicable requirements of this Section.

g. Unless otherwise instructed by the Regional Water Board or the State Water Board Executive Director, the GMPs shall be implemented at the beginning of the wet season (October 1).

h. All participants in an approved GMP that have not been selected to sample in a particular wet season are required to comply with all other monitoring program and reporting requirements of this Section including the submittal of an Annual Report by July 1 of each year to the appropriate Regional Water Board.

i. GMP participants subject to Federal storm water effluent limitation guidelines must perform the monitoring described in Section B.6. and submit the results of the monitoring to the appropriate Regional Water Board within the facility operator's Annual Report.

j. GMPs and Group Evaluation Reports should be prepared in accordance with State Water Board (or Regional Water Board) guidance.

k. GMP participants may receive Sampling and Analysis Reduction sampling credit in accordance with the following conditions:

i. Current or prior participants (group participants) of approved GMPs, who have not collected and analyzed samples from six storm events as required in Section B.7.b.i.(1), may substitute credit earned through participation in a GMP for up to four of the six required storm events. Credits for GMP participation shall be calculated as follows:

(1) Credit may only be earned in years of participation where the GMP participant was not scheduled to sample and the GMP was approved.

(2) One credit will be earned for each year of valid GMP participation.

(3) One additional credit may be earned for each year the overall GMP sample collection performance is greater than 75 percent.

ii. GMP participants substituting credit as calculated above shall provide proof of GMP participation and certification that all the conditions in Section B.12.b.i. have been met. GMP participants substituting credit in accordance with Section B.15.k.i.(3) shall also provide GMP sample collection performance documentation.

iii. GMP participants that qualify for Sampling and Analysis Reduction and have already sampled a storm event after October 1, 1997 shall only be required to sample one additional storm event during the remainder of this General Permit in accordance with the "Sample 2" schedule (or "Sample 1" schedule when certification filed for the wet season beginning October 1, 2001) in Table C of this Section.

n. Group leaders shall furnish, within 60 days of receiving a request from the State Water Board or Regional Water Board, any GMP information and documentation necessary to verify the Section B.15.k. sampling credits. Group leaders may also provide this information and documentation to the group participants.

16. *Watershed Monitoring Option*

Regional Water Boards may approve proposals to substitute watershed monitoring for some or all of the requirements of this Section if the Regional Water Board finds that the watershed monitoring will provide substantially similar monitoring information in evaluating facility operator compliance with the requirements of this General Permit.

TABLE D
ADDITIONAL ANALYTICAL PARAMETERS

Subsector	SIC	Activity Represented	Parameters
SECTOR A. TIMBER PRODUCTS			
A1	2421	General Sawmills and Planing Mills	**COD;TSS;Zn**
A2	2491	Wood Preserving	**As;Cu**
A3	2411	Log Storage and Handling	**TSS**
A4	2426	Hardwood Dimension and Flooring Mills	**COD;TSS**
A4	2429	Special Product Sawmills, Not Elsewhere Classified	**COD;TSS**
A4	243X	Millwork, Veneer, Plywood, and Structural Wood	**COD;TSS**
A4	(except 2434--Wood Kitchen Cabinet Manufacturers)		
A4	244X	Wood Containers	**COD;TSS**
A4	245X	Wood Buildings and Mobile Homes	**COD;TSS**
A4	2493	Reconstituted Wood Products	**COD;TSS**
A4	2499	Wood Products, Not Elsewhere Classified	
SECTOR B. PAPER AND ALLIED PRODUCTS MANUFACTURING			
B1	261X	Pulp Mills	
B2	262X	Paper Mills	
B3	263X	Paperboard Mills	**COD**
B4	265X	Paperboard Containers and Boxes	
B5	267X	Converted Paper and Paperboard Products, Except Containers and Boxes	
SECTOR C. CHEMICAL AND ALLIED PRODUCTS MANUFACTURING			
C1	281X	Industrial Inorganic Chemicals	**Al;Fe;N+N**
C2	282X	Plastics Materials and Synthetic Resins, Synthetic Rubber, Cellulosic, and Other Manmade Fibers Except Glass	**Zn**
C3	283X	Drugs	
C4	284X	Soaps, Detergents, and Cleaning Preparations; Perfumes, Cosmetics, and Other Toilet Preparations	**N+N;Zn**
C5	285X	Paints, Varnishes, Lacquers, Enamels, and Allied Products	
C6	286X	Industrial Organic Chemicals	
C7	287X	Nitrogenous and Phosphatic Basic Fertilizers, Mixed Fertilizer, Pesticides, and Other Agricultural Chemicals	**Fe;N+N;Pb;Zn;P**
C8	289X	Miscellaneous Chemical Products	
	3952	Inks and Paints, Including China Painting Enamels, India Ink, (limited to list) Drawing Ink, Platinum Paints for Burnt Wood or Leather Work, Paints for China Painting, Artist's Paints, and Artist's Watercolors	
SECTOR D. ASPHALT PAVING/ROOFING MATERIALS MANUFACTURERS AND LUBRICANT MANUFACTURERS			
D1	295X	Asphalt Paving and Roofing Materials	**TSS**
D2	2992	Lubricating Oils and Greases	

Parameter Names

Al - Aluminum; As - Arsenic; NH_3- Ammonia; Zn - Zinc; Cd - Cadmium; CN - Cyanide; Hg - Mercury; TSS -Total Suspended Solids; Cu - Copper; Fe - Iron; P - Phosphorus; Mg - Magnesium; Ag - Silver; Se - Selenium; COD - Chemical Oxygen Demand; BOD - Biochemical Oxygen Demand; N + N - Nitrate & Nitrite Nitrogen; Pb - Lead

Subsector SIC Activity Represented Parameters

SECTOR E. GLASS, CLAY, CEMENT, CONCRETE, AND GYPSUM PRODUCT MANUFACTURING

E1	3211	Flat Glass	
E1	322X	Glass and Glassware, Pressed or Blown	
E1	323X	Glass Products Made of Purchased Glass	
E2	3241	Hydraulic Cement	
E3	325X	Structural Clay Products	**Al**
E3	326X	Pottery and Related Products	**Al**
E3	3297	Non-Clay Refractories	**Al**
E4	327X	Concrete, Gypsum, and Plaster Products (Except Lime) (except 3274).	**TSS;Fe**
E4	3295	Minerals and Earths, Ground, or Otherwise Treated	**TSS;Fe**

SECTOR F. PRIMARY METALS

F1	331X	Steel Works, Blast Furnaces, Rolling & Finishing Mill	**Al;Zn**
F2	332X	Iron and Steel Foundries	**Al;TSS;Cu;Fe;Zn**
F3	333X	Primary Smelting and Refining of Nonferrous Metals	
F4	334X	Secondary Smelting and Refining of Nonferrous Metals	
F5	335X	Rolling, Drawing, and Extruding of Nonferrous Metals	**Cu;Zn**
F6	336X	Nonferrous Foundries (Castings)	**Cu;Zn**
F7	339X	Miscellaneous Primary Metal Products	

SECTOR G. METAL MINING (ORE MINING AND DRESSING) EXCEPT INACTIVE METAL MINING ACTIVITIES ON FEDERAL LANDS WHERE AN OPERATOR CANNOT BE IDENTIFIED

G1	101X	Iron Ores	
G2	102X	Copper Ores	**TSS;COD;N+N**
G3	103X	Lead and Zinc Ores	
G4	104X	Gold and Silver Ores	
G5	106X	Ferroalloy Ores, Except Vanadium	
G6	108X	Metal Mining Services	
G7	109X	Miscellaneous Metal Ores	

SECTOR H. COAL MINES AND COAL MINING-RELATED FACILITIES

NA	12XX	Coal Mines and Coal Mining-Related Facilities	**TSS;Al;Fe**

SECTOR I. COAL MINES AND COAL MINING-RELATED FACILITIES

I1	131X	Crude Petroleum and Natural Gas	
I2	132X	Natural Gas Liquids	
I3	138X	Oil and Gas Field Services	

SECTOR J. MINERAL MINING AND DRESSING EXCEPT INACTIVE MINERAL MINING ACTIVITIES OCCURRING ON FEDERAL LANDS WHERE AN OPERATOR CANNOT BE IDENTIFIED

J1	141X	Dimension Stone	**TSS**
J1	142X	Crushed and Broken Stone, Including Rip Rap	**TSS**
J1	148X	Nonmetallic Minerals, Except Fuels	**TSS**
J2	144X	Sand and Gravel	**TSS;N+N**
J3	145X	Clay, Ceramic, and Refractory Materials	
J4	147X	Chemical and Fertilizer Mineral Mining	
J4	149X	Miscellaneous Nonmetallic Minerals, Except Fuels	

Subsector	SIC	Activity Represented	Parameters
SECTOR K. HAZARDOUS WASTE TREATMENT STORAGE OR DISPOSAL FACILITIES			
NA	4953	Hazardous Waste Treatment Storage or Disposal	**NH_3;Mg;COD;As Cd;CN;Pb Hg;Se;**Ag
SECTOR L. LANDFILLS AND LAND APPLICATION SITES			
NA	4953	Landfills and Land Application Sites That Receive or Have Received Industrial Wastes, Except Inactive Landfills or Land Applications Sites Occurring on Federal Lands Where an Operator Cannot be Identified	**TSS;Fe**
SECTOR M. AUTOMOBILE SALVAGE YARDS			
NA	5015	Facilities Engaged in Dismantling or Wrecking Used Motor Vehicles for Parts Recycling or Resale and for Scrap	**TSS;Fe;Pb;Al**
SECTOR N. SCRAP RECYCLING FACILITIES			
NA	5093	Processing, Reclaiming, and Wholesale Distribution of Scrap and Waste Materials	**TSS;Fe;Pb Al;Cu;Zn;COD**
SECTOR O. STEAM ELECTRIC GENERATING FACILITIES			
NA	4911	Steam Electric Power Generating Facilities	**Fe**
SECTOR P. LAND TRANSPORTATION FACILITIES THAT HAVE VEHICLE AND EQUIPMENT MAINTENANCE SHOPS AND/OR EQUIPMENT CLEANING OPERATIONS			
P1	40XX	Railroad Transportation	
P2	41XX	Local and Highway Passenger Transportation	
P3	42XX	Motor Freight Transportation and Warehousing	
P4	43XX	United States Postal Service	
P5	5171	Petroleum Bulk Stations and Terminals	
SECTOR Q. WATER TRANSPORTATION FACILITIES THAT HAVE VEHICLE (VESSEL) & EQUIPMENT MAINTENANCE SHOPS AND/OR EQUIPMENT CLEANING OPERATIONS			
NA	44XX	Water Transportation	**Al;Fe;Pb;Zn**
SECTOR R. SHIP AND BOAT BUILDING OR REPAIRING YARDS			
NA	373X	Ship and Boat Building or Repairing Yards	
SECTOR S. AIR TRANSPORTATION FACILITIES			
NA	45XX	Air Transportation Facilities That Have Vehicle Maintenance Ships, Material Handing Facilities, Equipment Cleaning Operations, or Airport and/or Aircraft Deicing/Anti-icing Operations	**BOD;COD;NH_3;pH**

Subsector	SIC	Activity Represented	Parameters
SECTOR T. TREATMENT WORKS			
NA	4952	Treatment Works Treating Domestic Sewage or Any Other Sewage Sludge or Wastewater Treatment Device or System Used in the Storage, treatment, recycling, or Reclamation of Municipal or Domestic Sewage with a Design Flow of 1.0 MGD or More or Required to Have an Approved Pretreatment Program	
SECTOR U. FOOD AND KINDRED PRODUCTS			
U1	201X	Meat Products	
U2	202X	Dairy Products	
U3	203X	Canned, Frozen and Preserved Fruits, Vegetables and Food Specialties	
U4	204X	Grain Mill Products	**TSS**
U5	205X	Bakery Products	
U6	206X	Sugar and Confectionery Products	
U7	207X	Fats and Oils	**BOD;COD;TSS;N+N**
U8	208X	Beverages	
U9	209X	Miscellaneous Food Preparations and Kindred Products	
NA	21XX	Tobacco Products	
SECTOR V. TEXTILE MILLS, APPAREL, AND OTHER FABRIC PRODUCT MANUFACTURING			
V1	22XX	Textile Mill Products	
V2	23XX	Apparel and Other Finished Products Made From Fabrics and Similar Materials	
SECTOR W. FURNITURE AND FIXTURES			
NA	25XX	Furniture and Fixtures	
NA	2434	Wood Kitchen Cabinets	
SECTOR X. PRINTING AND PUBLISHING			
NA	2732	Book Printing	
NA	2752	Commercial Printing, Lithographic	
NA	2754	Commercial Printing, Gravure	
NA	2759	Commercial Printing, Nor Elsewhere Classified	
NA	2796	Platemaking and Related Services	
SECTOR Y. RUBBER, MISCELLANEOUS PLASTIC PRODUCTS, AND MISC. MANUFACTURING INDUSTRIES			
Y1	301X	Tires and Inner Tubes	**Zn**
Y1	302X	Rubber and Plastics Footwear	**Zn**
Y1	305X	Gaskets, Packing, and Sealing Devices and Rubber and Plastics Hose and Belting	**Zn**
Y1	306X	Fabricated Rubber Products, Not Elsewhere Classified	**Zn**
Y2	308X	Miscellaneous Plastics Products	

Subsector	SIC	Activity Represented	Parameters
Y2	393X	Musical Instruments	
Y2	394X	Dolls, Toys, Games, and Sporting and Athletic Goods	
Y2	395X	Pens, Pencils, and Other Artists' Materials	
Y2	396X	Costume Jewelry, Costume Novelties, Buttons, and Miscellaneous Notions, Except Precious Metal	
Y2	399X	Miscellaneous Manufacturing Industries	
SECTOR Z. LEATHER TANNING AND FINISHING			
NA	311X	Leather Tanning and Finishing	
NA	NA	Facilities that Make Fertilizer Solely From Leather Scraps and Leather Dust	
SECTOR AA. FABRICATED METAL PRODUCTS			
AA1	3429	Hardware, Not Elsewhere Classified	**Zn;N+N;Fe;Al**
AA1	3441	Fabricated Structural Metal	**Zn;N+N;Fe;Al**
AA1	3442	Metal Doors, Sash, Frames, Molding, and Trim	**Zn;N+N;Fe;Al**
AA1	3443	Fabricated Plate Work (Boiler Shops)	**Zn;N+N;Fe;Al**
AA1	3444	Sheet Metal Work	**Zn;N+N;Fe;Al**
AA1	3451	Screw Machine Products	**Zn;N+N;Fe;Al**
AA1	3452	Bolts, Nuts, Screws, Rivets, and Washers	**Zn;N+N;Fe;Al**
AA1	3462	Iron and Steel Forgings	**Zn;N+N;Fe;Al**
AA1	3471	Electroplating, Plating, Polishing, Anodizing, and Coloring	**Zn;N+N;Fe;Al**
AA1	3494	Valves and Pipe Fittings, Not Elsewhere Classified	**Zn;N+N;Fe;Al**
AA1	3496	Miscellaneous Fabricated Wire Products	**Zn;N+N;Fe;Al**
AA1	3499	Fabricated Metal Products, Not Elsewhere Classified	**Zn;N+N;Fe;Al**
AA1	391X	Jewelry, Silverware, and Plated Ware	**Zn;N+N;Fe;Al**
AA2	3479	Coating, Engraving, and Allied Services	**Zn;N+N**
SECTOR AB. TRANSPORTATION EQUIPMENT, INDUSTRIAL OR COMMERCIAL MACHINERY			
NA	35XX	Industrial and Commercial Machinery (except 357X Computer and Office Equipment)	
NA	37XX	Transportation Equipment (except 373X Ship and Boat Building and Repairing	
SECTOR AC. ELECTRONIC, ELECTRICAL. PHOTOGRAPHIC, AND OPTICAL GOODS			
NA	36XX	Electronic and Other Electrical Equipment and Components, Except Computer Equipment	
NA	38XX	Measuring, Analyzing, and Controlling Instruments; Photographic, Medical, and Optical Goods; Watches and Clocks	
NA	357X	Computer and Office Equipment	

Section C: STANDARD PROVISIONS

1. Duty to Comply

The facility operator must comply with all of the conditions of this General Permit. Any General Permit noncompliance constitutes a violation of the Clean Water Act (CWA) and the Porter-Cologne Water Quality Control Act and is grounds for (a) enforcement action for (b) General Permit termination, revocation and reissuance, or modification or (c) denial of a General Permit renewal application.

The facility operator shall comply with effluent standards or prohibitions established under Section 307(a) of the CWA for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if this General Permit has not yet been modified to incorporate the requirement.

2. General Permit Actions

This General Permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the facility operator for a General Permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any General Permit condition.

If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under Section 307(a) of the CWA for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this General Permit, this General Permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition, and the facility operator so notified.

3. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a facility operator in an enforcement action that it would have been necessary to halt or reduce the general permitted activity in order to maintain compliance with the conditions of this General Permit.

4. Duty to Mitigate

The facility operator shall take all responsible steps to minimize or prevent any discharge in violation of this General Permit which has a reasonable likelihood of adversely affecting human health or the environment.

5. Proper Operation and Maintenance

The facility operator at all times shall properly operate and maintain any facilities and systems of treatment and control (and related appurtenances) which are installed or used by the facility operator to achieve compliance with the conditions of this General Permit and with the requirements of storm water pollution prevention plans (SWPPPs). Proper operation and maintenance also include adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance may require the operation of backup or auxiliary facilities or similar systems installed by a facility operator when necessary to achieve compliance with the conditions of this General Permit.

6. Property Rights

This General Permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations.

7. Duty to Provide Information

The facility operator shall furnish the Regional Water Quality Control Board (Regional Water Board), State Water Resources Control Board (State Water Board), U.S. Environmental Protection Agency (U.S. EPA), or local storm water management agency, within a reasonable time specified by the agencies, any requested information to determine compliance with this General Permit. The facility operator shall also furnish, upon request, copies of records required to be kept by this General Permit.

8. Inspection and Entry

The facility operator shall allow the Regional Water Board, State Water Board, U.S. EPA, and local storm water management agency, upon the presentation of credentials and other documents as may be required by law, to:

a. Enter upon the facility operator's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this General Permit;

b. Have access to and copy at reasonable times any records that must be kept under the conditions of this General Permit;

c. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment) that are related to or may impact storm water discharge or authorized non-storm water discharge; and

d. Conduct monitoring activities at reasonable times for the purpose of ensuring General Permit compliance.

9. Signatory Requirements

a. All Notices of Intent (NOIs) submitted to the State Water Board shall be signed as follows:

(1) For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (a) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or (b) the manager of the facility if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

(2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

(3) For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official. The principal executive officer of a Federal agency includes the chief executive officer of the agency or the senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of U.S. EPA).

b. All reports, certifications, or other information required by the General Permit or requested by the Regional Water Board, State Water Board, U.S. EPA, or local storm water management agency shall be signed by a person described above or by a duly authorized representative. A person is a duly authorized representative only if:

(1) The authorization is made in writing by a person described above and retained as part of the SWPPP.

(2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of manager, operator, superintendent, or position of equivalent responsibility or an individual or position having overall responsibility for named position.)

(3) If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization must be attached to the SWPPP prior to submittal of any reports, certifications, or information signed by the authorized representative.

10. Certification

Any person signing documents under Provision 9. above shall make the following certification:

"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 ensure 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."

11. Reporting Requirements

a. Planned changes: The facility operator shall give advance notice to the Regional Water Board and local storm water management agency of any planned physical alteration or additions to the general permitted facility. Notice is required under this provision only when the alteration or addition could significantly change the nature or increase the quantity of pollutants discharged.

b. Anticipated noncompliance: The facility operator will give advance notice to the Regional Water Board and local storm water management agency of any planned changes at the permitted facility which may result in noncompliance with General Permit requirements.

c. Compliance schedules: Reports of compliance or noncompliance with or any progress reports on interim and final requirements contained in any compliance schedule of this General Permit shall be submitted no later than 14 days following each scheduled date.

d. Noncompliance reporting: The facility operator shall report any noncompliance at the time monitoring reports are submitted. The written submission shall contain (1) a description of the noncompliance and its cause; (2) the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and (3) steps taken or planned to reduce and prevent recurrence of the noncompliance.

12. Oil and Hazardous Substance Liability

Nothing in this General Permit shall be construed to preclude the institution of any legal action or relieve the facility operator from any responsibilities, liabilities, or penalties to which the facility operator is or may be subject under Section 311 of the CWA.

13. Severability

The provisions of this General Permit are severable; and if any provision of this General Permit or the application of any provision of this General Permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this General Permit shall not be affected thereby.

14. Reopener Clause

This General Permit may be modified, revoked, and reissued, or terminated for cause due to promulgation of amended regulations, receipt of U.S. EPA guidance concerning regulated activities, judicial decision, or in accordance with 40 CFR 122.62, 122.63, 122.64, and 124.5. This General Permit may be reopened to modify the provisions regarding authorized non-storm water discharges specified in Section D. Special Conditions.

15. Penalties for Violations of General Permit Conditions.

a. Section 309 of the CWA provides significant penalties for any person who violates a General Permit condition

implementing Sections 301, 302, 306, 307 308, 318, or 405 of the CWA, or any General Permit condition or limitation implementing any such section in a General Permit issued under Section 402. Any person who violates any General Permit condition of this General Permit is subject to a civil penalty not to exceed $25,000 per day of such violation, as well as any other appropriate sanction provided by Section 309 of the CWA.

b. The Porter-Cologne Water Quality Control Act also provides for civil and criminal penalties in some cases greater than those under the CWA.

16. Availability

A copy of this General Permit shall be maintained at the facility and be available at all times to the appropriate facility personnel and to Regional Water Board and local agency inspectors.

17. Transfers

This General Permit is not transferable from one facility operator to another facility operator nor may it be transferred from one location to another location. A new facility operator of an existing facility must submit an NOI in accordance with the requirements of this General Permit to be authorized to discharge under this General Permit.

18. Continuation of Expired General Permit

This General Permit continues in force and effect until a new general permit is issued or the State Water Board rescinds the General Permit. Facility operators authorized to discharge under the expiring general permit are required to file an NOI to be covered by the reissued General Permit.

19. Penalties for Falsification of Reports

Section 309(c)(4) of the CWA provides that any person who knowingly makes any false material statement, representation, or certification in any record or other document submitted or required to be maintained under this General Permit, including reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than $10,000 or by imprisonment for not more than two years, or by both.

FACILITIES COVERED BY THIS GENERAL PERMIT

Industrial facilities include Federal, State, municipally owned, and private facilities from the following categories:

1. FACILITIES SUBJECT TO STORM WATER EFFLUENT LIMITATIONS GUIDELINES, NEW SOURCE PERFORMANCE STANDARDS, OR TOXIC POLLUTANT EFFLUENT STANDARDS (40 Code of Federal Regulations (CFR) SUBCHAPTER N). Currently, categories of facilities subject to storm water effluent limitations guidelines are Cement Manufacturing (40 CFR Part 411), Feedlots (40 CFR Part 412), Fertilizer Manufacturing (40 CFR Part 418), Petroleum Refining (40 CFR Part 419), Phosphate Manufacturing (40 CFR Part 422), Steam Electric (40 CFR Part 423), Coal Mining (40 CFR Part 434), Mineral Mining and Processing (40 CFR Part 436), Ore Mining and Dressing (40 CFR Part 440), and Asphalt Emulsion (40 CFR Part 443).

2. MANUFACTURING FACILITIES: Standard Industrial Classifications (SICs) 24 (except 2434), 26 (except 265 and 267), 28 (except 283 and 285) 29, 311, 32 (except 323), 33, 3441, and 373.

3. OIL AND GAS/MINING FACILITIES: SICs 10 through 14 including active or inactive mining operations (except for areas of coal mining operations meeting the definition of a reclamation area under 40 CFR 434.11(l) because of performance bond issued to the facility by the appropriate Surface Mining Control and Reclamation Act (SMCRA) authority has been released, or except for area of non-coal mining operations which have been released from applicable State or Federal reclamation requirements after December 17, 1990); oil and gas exploration, production, processing, or treatment operations; or transmission facilities that discharge storm water contaminated by contact with or that has come into contact with any overburden, raw material, intermediate products, finished products, by-products, or waste products located on the site of such operations. Inactive mining operations are mined sites that are not being actively mined but which have an identifiable facility operator. Inactive mining sites do not include sites where mining claims are being maintained prior to disturbances associated with the extraction, beneficiation, or processing of mined material; or sites where minimal activities are undertaken for the sole purpose of maintaining a mining claim.

4. HAZARDOUS WASTE TREATMENT, STORAGE, OR DISPOSAL FACILITIES: Includes those operating under interim status or a general permit under Subtitle C of the Federal Resource, Conservation, and Recovery Act (RCRA).

5. LANDFILLS, LAND APPLICATION SITES, AND OPEN DUMPS: Sites that receive or have received industrial waste from any of

the facilities covered by this General Permit, sites subject to regulation under Subtitle D of RCRA, and sites that have accepted wastes from construction activities (construction activities include any clearing, grading, or excavation that results in disturbance of five acres or more).

6. RECYCLING FACILITIES: SICs 5015 and 5093. These codes include metal scrapyards, battery reclaimers, salvage yards, motor vehicle dismantlers and wreckers, and recycling facilities that are engaged in assembling, breaking up, sorting, and wholesale distribution of scrap and waste material such as bottles, wastepaper, textile wastes, oil waste, etc.

7. STEAM ELECTRIC POWER GENERATING FACILITIES: Includes any facility that generates steam for electric power through the combustion of coal, oil, wood, etc.

8. TRANSPORTATION FACILITIES: SICs 40, 41, 42 (except 4221-25), 43, 44, 45, and 5171 which have vehicle maintenance shops, equipment cleaning operations, or airport deicing operations. Only those portions of the facility involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication) or other operations identified herein that are associated with industrial activity.

9. SEWAGE OR WASTEWATER TREATMENT WORKS: Facilities used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage, including land dedicated to the disposal of sewage sludge that are located within the confines of the facility with a design flow of one million gallons per day or more or required to have an approved pretreatment program under 40 CFR Part 403. Not included are farm lands, domestic gardens, or lands used for sludge management where sludge is beneficially reused and which are not physically located in the confines of the facility, or areas that are in compliance with Section 405 of the Clean Water Act.

10. MANUFACTURING FACILITIES WHERE INDUSTRIAL MATERIALS, EQUIPMENT, OR ACTIVITIES ARE <u>EXPOSED</u> TO STORM WATER: SICs 20, 21, 22, 23, 2434, 25, 265, 267, 27, 283, 285, 30, 31 (except 311), 323, 34 (except 3441), 35, 36, 37 (except 373), 38, 39, and 4221-4225.

Attachment 2

STORM WATER CONTACTS FOR THE STATE AND REGIONAL WATER BOARDS

See Storm Water Contacts at:
http://www.waterboards.ca.gov/water_issues/programs/stormwater/contact.shtml

NOTICE OF INTENT (NOI) INSTRUCTIONS

TO COMPLY WITH STATE WATER RESOURCES CONTROL BOARD WATER QUALITY ORDER NO. 97-03-DWQ NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT NO. CAS000001

Who Must Submit

The facility operator must submit an NOI for each industrial facility that is required by U.S. Environmental Protection Agency (U.S.EPA) regulations to obtain a storm water permit. The required industrial facilities are listed in Attachment 1 of the General Permit and are also listed in 40 Code of Federal Regulations Section 122.26(b)(14).

The facility operator is typically the owner of the business or operation where the industrial activities requiring a storm water permit occur. The facility operator is responsible for all permit related activities at the facility.

Where operations have discontinued and significant materials remain on site (such as at closed landfills), the landowner may be responsible for filing an NOI and complying with this General Permit. Landowners may also file an NOI for a facility if the landowner, rather than the facility operator, is responsible for compliance with this General Permit.

How and Where to Apply

The completed NOI form, a site map, and appropriate fee must be mailed to the State Water Resources Control Board (State Water Board) at the following address:

State Water Resources Control Board
Division of Water Quality
P.O. Box 1977
Sacramento, CA 95812-1977
Attn: Storm Water Permitting Unit

Please Note: Do not send the original or copies of the NOI submittal to the Regional Water Quality Control Board (Regional Water Board). The original NOI will be forwarded to the Regional Water Board after processing.

Do not send a copy of your Storm Water Pollution Prevention Plan (SWPPP) with your NOI submittal. Your SWPPP is to be kept on site and made available for review upon request.

When to Apply

Facility operators of existing facilities must file an NOI in accordance with these instructions by March 30, 1992. Facility

operators of new facilities (those beginning operations after March 30, 1992) must file an NOI in accordance with these instructions at least 14 days prior to the beginning of operations.

Once the completed NOI, site map, and appropriate fee have been submitted to the State Water Board, your NOI will be processed and you will be issued a receipt letter with a Waste Discharge Identification (WDID) Number. Please refer to this number when you contact either the State or Regional Water Boards.

Fees

The total annual fee is $1008.00. Checks should be made payable to: SWRCB

Change of Information

If the information provided on the NOI or site map changes, you should report the changes to the State Water Board using an NOI form. Section I of the line-by-line instructions includes information regarding changes to the NOI.

Questions

If you have any questions completing the NOI, please call the appropriate Regional Water Board (Attachment 2) or the State Water Board at (916) 341-5538.

NOI LINE-BY-LINE INSTRUCTIONS

Please type or print your responses on the NOI. Please complete the NOI form in its entirety and sign the certification.

Section I--NOI STATUS

Check box "A" if this is a new NOI registration.

Check box "B" if you are reporting changes to the NOI (e.g., new contact person, phone number, mailing address). Include the facility WDID #. Highlight all the information that has been changed.

Please note that a change of information **does not** apply to a change of facility operator or a change in the location of the facility. These changes require a Notice of Termination (NOT) and submittal of a new NOI and annual fee. Contact the State Water Board or Regional Water Boards for more information on the NOT Form and instructions.

Regardless of whether you are submitting a new or revised NOI, you must complete the NOI in its entirety and the NOI must be signed.

Section II--Facility Operator Information

Part A: The facility operator is the legal entity that is responsible for all permit related compliance activities at the facility. In most cases, the facility operator is the owner of the business or operation where the industrial activity occurs. Give the legal name and the address of the person, firm, public organization, or any other entity that is responsible for complying with the General Permit.

Part B: Check the box that indicates the type of operation.

Section III--Facility Site Information

Part A: Enter the facility's official or legal name and provide the address. Facilities that do not have a street address must provide cross-streets or parcel numbers. Do not include a P.O. Box address in Part A.

Part B: Enter the mailing address of the facility if different than Part A. This address may be a P.O. Box.

The contact person should be the plant or site manager who is familiar with the facility and responsible for overseeing compliance of the General Permit requirements.

Part C: Enter the total size of the facility in either acres or square feet. Also include the percentage of the site that is impervious (areas that water cannot soak into the ground, such as concrete, asphalt, and rooftops).

Part D: Determine the Standard Industrial Classification (SIC) code which best identifies the industrial activity that is taking place at the facility. This information can be obtained by referring to the Standard Industrial Classification Manual prepared by the Federal Office of Management and Budget which is available at public libraries. The code you determine should identify the industrial activity that requires you to submit the NOI. (For example, if the business is high school education and the activity is school bus maintenance, the code you choose would be bus maintenance, not education.) Most facilities have only one code; however, additional spaces are provided for those facilities that have more than one activity.

Part E: Identify the title of the industrial activity that requires you to submit the NOI (e.g., the title of SIC Code 2421 is Sawmills and Planing Mills, General). If you cannot identify the title, provide a description of the regulated activity(s).

Section IV--Address for Correspondence

Correspondence relative to the permit will be mailed occasionally. Check the box which indicates where you would like such correspondence delivered. If you want correspondence sent to another contact person or address different than indicated in Section II or Section III then include the information on an extra sheet of paper.

Section V--Billing Address Information

To continue coverage under the General Permit, the annual fee must be paid. Use this section to indicate where the annual fee invoices should be mailed. Enter the billing address if different than the address given in Sections II or III.

Section VI--Receiving Water Information

Provide the name of the receiving water where storm water discharge flows from your facility. A description of each option is included below.

1. Directly to waters of the United States: Storm water discharges directly from the facility to a river, creek, lake, ocean, etc. Enter the name of the receiving water (e.g., Boulder Creek).

2. Indirectly to waters of the United States: Storm water discharges over adjacent properties or right-of-ways prior to discharging to waters of the United States. Enter the name of the closest receiving water (e.g., Clear Creek).

Section VII--Implementation of Permit Requirements

Parts A and B: Check the boxes that best describe the status of the Storm Water Pollution Prevention Plan (SWPPP) and the Monitoring Program.

Part C: Check yes or no to questions 1 through 4. If you answer no to any question, you need to assign a person to these tasks immediately.

As a permit holder you are required to have an SWPPP and Monitoring Program in place prior to the beginning of facility operations. Failure to do so is in direct violation of the General Permit. Do not send a copy of your SWPPP with your NOI submittal.

Please refer to Sections A and B of the General Permit for additional information regarding the SWPPP and Monitoring Program.

Section VIII--Site Map

Provide a "to scale" drawing of the facility and its immediate surroundings. Include as much detail about the site as possible. At a minimum, indicate buildings, material handling and storage areas, roads, names of adjacent streets, storm water discharge points, sample collection points, and a north arrow. Whenever

possible limit the map to a standard size sheet of paper (8.5" x 11" or 11" x 17"). **Do not send blueprints** unless you are sending one page and it meets the size limits as defined above.

A location map may also be included, especially in cases where the facility is difficult to find, but are not to be submitted as a substitute for the site map. The location map can be created from local street maps and U.S. Geological Survey (USGS) quadrangle maps, etc.

A revised site map must be submitted whenever there is a significant change in the facility layout (e.g., new building, change in storage locations, boundary change, etc.).

Section IX--Certification

This section should be read by the facility operator. The certification provides assurances that the NOI and site map were completed by the facility operator in an accurate and complete fashion and with the knowledge that penalties exist for providing false information. It also requires the Responsible Party to certify that the provisions in the General Permit will be complied with.

The NOI must be signed by:

For a Corporation: a responsible corporate officer (or authorized individual).

For a Partnership or Sole Proprietorship: a general partner or the proprietor, respectively.

For a Municipality, State, or other non-Federal Public Agency: either a principal executive officer or ranking elected official.

For a Federal Agency: either the chief or senior executive officer of the agency.

State of California
State Water Resources Control Board

NOTICE OF INTENT

TO COMPLY WITH THE TERMS OF THE
GENERAL PERMIT TO DISCHARGE STORM WATER
ASSOCIATED WITH **INDUSTRIAL ACTIVITY** (WQ ORDER No. 97-03-DWQ)
(Excluding Construction Activities)

SECTION I. NOI STATUS (please check only one box)

A. [ ] New Permittee B [ ] Change of Information WDID # |__|__|__|__|__|__|__|__|__|__|

SECTION II. FACILITY OPERATOR INFORMATION (See instructions)

A. NAME:		Phone: |___|-|___|-|____|
Mailing Address:		
City:	State: |__|	Zip Code: |_____|-|____|
Contact Person:		
B. OPERATOR TYPE: (check one) 1.[ ] Private Individual 2.[ ]Business 3.[ ]Municipal 4.[ ]State 5.[ ]Federal 6.[ ]Other		

SECTION III. FACILITY SITE INFORMATION

A. FACILITY NAME		Phone: |___|-|___|-|____|
Facility Location:		County:
City:	State: CIA	Zip Code: |_____|-|____|
B. MAILING ADDRESS:		
City:	State: |__|	Zip Code: |_____|-|____|
Contact Person:		
C. FACILITY INFORMATION (check one) Total Size of Site: _____ Acres [ ] Sq. Ft. [ ]		Percent of Site Impervious (*including rooftops*) |_____| %

D. SIC CODE(S) OF REGULATED ACTIVITY: E. REGULATED ACTIVITY (*describe each SIC code*):

1. |____| |_____|
2. |____| |_____|
3. |____| |_____|

FOR STATE USE ONLY:

SECTION IV. ADDRESS FOR CORRESPONDENCE

|_| Facility Operator Mailing Address (Section II) |_| Facility Mailing Address (Section III, B.) |_| Both

SECTION V. BILLING ADDRESS INFORMATION

SEND BILL TO: [ ]Facility Operator Mailing Address (Section II) [ ]Facility Mailing Address (Section III, B.) [ ]Other (*enter information below*)

Name: |_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|

Phone: |_|_|_|-|_|_|_|-|_|_|_|_|

Mailing Address: |_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|

City: |_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|

State: |_|_|

Zip Code: |_|_|_|_|_|-|_|_|_|_|

Contact Person: |_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|

SECTION VI. RECEIVING WATER INFORMATION

Your facility's storm water discharges flow: (*check one*) [ ] Directly OR [ ] Indirectly to waters of the United States.

Name of receiving water: |_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|
(river, lake, stream, ocean, etc.)

SECTION VII. IMPLEMENTATION OF PERMIT REQUIREMENTS

A. STORM WATER POLLUTION PREVENTION PLAN (SWPPP) (*check one*)
[ ] A SWPPP has been prepared for this facility and is available for review.
[ ] A SWPPP will be prepared and ready for review by (enter date): ____/____/____.

B. MONITORING PROGRAM (check one)
[ ] A Monitoring Program has been prepared for this facility and is available for review.
[ ] A Monitoring Program will be prepared and ready for review by (enter date): ____/____/____.

C. PERMIT COMPLIANCE RESPONSIBILITY
Has a person been assigned responsibility for:

1. Inspecting the facility throughout the year to identify any potential pollution problems? ____YES ____NO
2. Collecting storm water samples and having them analyzed? ____YES ____NO
3. Preparing and submitting an annual report by July 1 of each year? ____YES ____NO
4. Eliminating discharges other than storm water (*such as equipment orvehide wash-water*) into the storm drain? ____YES ____NO

SECTION VIII. SITE MAP

I HAVE ENCLOSED A SITE MAP YES[ ] A new NOI submitted without a site map will be rejected.

SECTION IX. CERTIFICATION

"I certify under penalty of law that this document and all attachments were prepared under my direction and 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. In addition, I certify that I have read the entire General Permit, including all attachments, and agree to comply with and be bound by all of the provisions, requirements, and prohibitions of the permit, including the development and implementation of a Storm Water Pollution Pervention Plan and a Monitoring Program Plan will be complied with."

Printed Name: _____

Signature: _____ Date _____

Title: _____

DEFINITIONS

1. "Best Management Practices" ("BMPs") means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. BMPs also include treatment measures, operating procedures, and practices to control facility site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. BMPs may include any type of pollution prevention and pollution control measure necessary to achieve compliance with this General Permit.

2. Clean Water Act (CWA) means the Federal Water Pollution Control Act enacted by Public Law 92-500 as amended by Public Laws 95-217, 95-576, 96-483, and 97-117; 33 USC. 1251 et seq.

3. "Facility" is a collection of industrial processes discharging storm water associated with industrial activity within the property boundary or operational unit.

4. "Non-Storm Water Discharge" means any discharge to storm sewer systems that is not composed entirely of storm water.

5. "Significant Materials" includes, but is not limited to: raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under Section 101(14) of Comprehensive Environmental Response, Compensation, and Liability Act (CERLCA); any chemical the facility is required to report pursuant to Section 313 of Title III of Superfund Amendments and Reauthorization Act (SARA); fertilizers; pesticides; and waste products such as ashes, slag, and sludge that have the potential to be released with storm water discharges.

6. "Significant Quantities" is the volume, concentrations, or mass of a pollutant that can cause or threaten to cause pollution, contamination, or nuisance; adversely impact human health or the environment; and/or cause or contribute to a violation of any applicable water quality standards for the receiving water.

7. "Significant Spills" includes, but is not limited to: releases of oil or hazardous substances in excess of reportable quantities under Section 311 of the CWA (see 40 CFR 110.10 and 117.21) or Section 102 of CERCLA (see 40 CFR 302.4).

8. "Storm water" means storm water runoff, snow melt runoff, and storm water surface runoff and drainage. It excludes infiltration and runoff from agricultural land.

9. "Storm Water Associated with Industrial Activity" means the discharge from any conveyance which is used for collecting and conveying storm water and which is directly related to manufacturing, processing, or raw materials storage areas at an industrial plant. The term does not include discharges from facilities or activities excluded from the NPDES program. For the facilities identified in Categories 1 through 9 of Attachment 1 of this General Permit, the term includes, but is not limited to, storm water discharges from industrial plant yards; immediate access roads and rail lines used or traveled by carriers of raw materials; manufactured products, waste material, or by-products used or created by the facility; material handling sites; refuse sites; sites used for the application or disposal of process wastewaters (as defined at 40 CFR Part 401); sites used for the storage and maintenance of material handling equipment; sites used for residual treatment, storage, or disposal; shipping and receiving areas; manufacturing buildings; storage areas (including tank farms) for raw materials, and intermediate and finished products; and areas where industrial activity has taken place in the past and significant materials remain and are exposed to storm water.

   For the facilities identified in Category 10 of Attachment 1 of this General Permit, the term only includes storm water discharges from all areas listed in the previous sentence where material handling equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, or industrial machinery <u>are exposed to storm water</u>.

   Material handling activities include the: storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, finished product, by-product, or waste product. The term excludes areas located on plant lands separate from the plant's industrial activities, such as office buildings and accompanying parking lots as long as the drainage from the excluded areas is not mixed with storm water drained from the above described areas. Industrial facilities (including industrial facilities that are federally, State, or municipally owned or operated that meet the description of the facilities listed in this paragraph) include those facilities designated under 40 CFR 122.26(a)(1)(v).

ACRONYM LIST

BAT	Best Available Technology Economically Achievable
BCT	Best Conventional Pollutant Control Technology
BMPs	Best Management Practices
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (Federal Superfund)
CFR	Code of Federal Regulations
CWA	Clean Water Act
General Permit	General Industrial Activities Storm Water Permit
GMP	Group Monitoring Plan
NEC	No Exposure Certification
NOI	Notice of Intent
NOT	Notice of Termination
NPDES	National Pollutant Discharge Elimination System
O&G	Oil and Grease
RCRA	Resource, Conservation, and Recovery Act
Regional Water Board	Regional Water Quality Control Board
RQ	Reportable Quantity
SARA	Superfund Amendments and Reauthorization Act of 1986
SIC	Standard Industrial Classification
SMCRA	Surface Mining Control and Reclamation Act
SPCC	Spill Prevention Control and Countermeasures
State Water Board	State Water Resources Control Board
SWPPP	Storm Water Pollution Prevention Plan
TOC	Total Organic Carbon
TSS	Total Suspended Solids
U.S. EPA	U.S. Environmental Protection Agency
WDID	Waste Discharger Identification
WDRs	Waste Discharge Requirements

APPENDIX B STORM WATER POLLUTION PREVENTION PLAN AMENDMENT LOG

APPENDIX B: STORM WATER POLLUTION PREVENTION PLAN AMENDMENT LOG

This SWPPP will be amended whenever there is (1) a change in construction, operation, or maintenance that may affect the discharge of significant quantities of pollutants to surface water, groundwater, or local storm drain systems, (2) a change in pollution prevention team members, or (3) a violation of any condition of the General Permit (e.g., ineffective or lacking BMPs).

Amendment #	Date	Amendment Description	Amended By
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
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16			
17			

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APPENDIX C INDUSTRIAL STORM WATER MANAGEMENT FORMS

FORM 1-SAMPLING & ANALYSIS RESULTS

FIRST STORM EVENT

- If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example: <.05)
- If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank
- When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.
- Make additional copies of this form as necessary.

NAME OF PERSON COLLECTING SAMPLE(S):_____ **TITLE:** _____ **SIGNATURE:** _____

DESCRIBE DISCHARGE LOCATION Example: NW Out Fall	DATE/TIME OF SAMPLE COLLECTION	TIME DISCHARGE STARTED	ANALYTICAL RESULTS For First Storm Event									
			BASIC PARAMETERS					OTHER PARAMETERS				
			PH	TSS	SC	O&G	TOC					
	__/__/__ __:__ ☐AM ☐PM	__:__ ☐AM ☐PM										
	__/__/__ __:__ ☐AM ☐PM	__:__ ☐AM ☐PM										
	__/__/__ __:__ ☐AM ☐PM	__:__ ☐AM ☐PM										
	__/__/__ __:__ ☐AM ☐PM	__:__ ☐AM ☐PM										
TEST REPORTING UNITS:			pH Units	mg/l	umho/cm	mg/l	mg/l					
TEST METHOD DETECTION LIMIT:												
TEST METHOD USED:												
ANALYZED BY (SELF/LAB):												

TSS - Total Suspended Solids SC - Specific Conductance O&G - Oil & Grease TOC - Total Organic Carbon

SIDE B

FORM 1-SAMPLING & ANALYSIS RESULTS

SECOND STORM EVENT

- If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example: <.05)
- If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank
- When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.

NAME OF PERSON COLLECTING SAMPLE(S):_____ **TITLE:** _____ **SIGNATURE:** _____

DESCRIBE DISCHARGE LOCATION Example: NW Out Fall	DATE/TIME OF SAMPLE COLLECTION	TIME DISCHARGE STARTED	ANALYTICAL RESULTS For Second Storm Event									
			BASIC PARAMETERS					OTHER PARAMETERS				
			PH	TSS	SC	O&G	TOC					
	__/__/__ ☐AM ☐PM	__:__ ☐AM ☐PM										
	__/__/__ ☐AM ☐PM	__:__ ☐AM ☐PM										
	__/__/__ ☐AM ☐PM	__:__ ☐AM ☐PM										
	__/__/__ ☐AM ☐PM	__:__ ☐AM ☐PM										
TEST REPORTING UNITS:			pH Units	mg/l	umho/cm	mg/l	mg/l					
TEST METHOD DETECTION LIMIT:												
TEST METHOD USED:												
ANALYZED BY (SELF/LAB):												

TSS - Total Suspended Solids SC - Specific Conductance O&G - Oil & Grease TOC - Total Organic Carbon

SIDE A

STATE FORM 2-QUARTERLY VISUAL OBSERVATIONS OF AUTHORIZED NON-STORM WATER DISCHARGES (NSWDs)

- Quarterly dry weather visual observations are required of each authorized NSWD.
- *Observe each authorized NSWD source, impacted drainage area, and* discharge location.
- Authorized NSWDs must meet the conditions provided in Section D (pages 5-6), of the General Permit.
- Make additional copies of this form as necessary.

QUARTER: **JULY-SEPT.** DATE: __/__/__	**Observers Name:** _____ **Title:** _____ **Signature:** _____	**WERE ANY AUTHORIZED NSWDs DISCHARGED DURING THIS QUARTER?** ☐ **YES** ☐ **NO** If **YES**, complete reverse side of this form.
QUARTER: **OCT.-DEC.** DATE: __/__/__	**Observers Name:** _____ **Title:** _____ **Signature:** _____	**WERE ANY AUTHORIZED NSWDs DISCHARGED DURING THIS QUARTER?** ☐ **YES** ☐ **NO** If **YES**, complete reverse side of this form.
QUARTER: **JAN.-MARCH** DATE: __/__/__	**Observers Name:** _____ **Title:** _____ **Signature:** _____	**WERE ANY AUTHORIZED NSWDs DISCHARGED DURING THIS QUARTER?** ☐ **YES** ☐ **NO** If **YES**, complete reverse side of this form.
QUARTER: **APRIL-JUNE** DATE: __/__/__	**Observers Name:** _____ **Title:** _____ **Signature:** _____	**WERE ANY AUTHORIZED NSWDs DISCHARGED DURING THIS QUARTER?** ☐ **YES** ☐ **NO** If **YES**, complete reverse side of this form.

SIDE B

STATE FORM 2-QUARTERLY VISUAL OBSERVATIONS OF AUTHORIZED NON-STORM WATER DISCHARGES (NSWDs)

DATE /TIME OF OBSERVATION	SOURCE AND LOCATION OF AUTHORIZED NSWD EXAMPLE: Air conditioner Units on Building C	NAME OF AUTHORIZED NSWD EXAMPLE: Air conditioner condensate	DESCRIBE AUTHORIZED NSWD CHARACTERISTICS Indicate whether authorized NSWD is clear, cloudy, or discolored, causing staining, contains floating objects or an oil sheen, has odors, etc.		DESCRIBE ANY REVISED OR NEW BMPs AND PROVIDE THEIR IMPLEMENTATION DATE
			At the NSWD Source	At the NSWD Drainage Area and Discharge Location	
__/__/__ __:__ ☐AM ☐PM					
__/__/__ __:__ ☐AM ☐PM					
__/__/__ __:__ ☐AM ☐PM					
__/__/__ __:__ ☐AM ☐PM					
__/__/__ __:__ ☐AM ☐PM					

SIDE A

STATE FORM 3-QUARTERLY VISUAL OBSERVATIONS OF UNAUTHORIZED NON-STORM WATER DISCHARGES (NSWDs)

- Unauthorized NSWDs are discharges (such as wash or rinse waters) that do not meet the conditions provided in Section D (pages 5-6) of the General Permit.
- Quarterly visual observations are required to observe current and detect prior unauthorized NSWDs.
- Quarterly visual observations are required during dry weather and at all facility drainage areas.
- Each unauthorized NSWD source, impacted drainage area, and discharge location must be identified and observed.
- Unauthorized NSWDs that can not be eliminated within 90 days of observation must be reported to the Regional Board in accordance with Section A.10.e of the General Permit.
- Make additional copies of this form as necessary.

QUARTER: **JULY-SEPT.** **DATE/TIME OF OBSERVATIONS** ☐ AM ☐ PM __/__/__ __:__	**Observers Name:** _____ **Title:** _____ **Signature:** _____	**WERE UNAUTHORIZED NSWDs OBSERVED?** ☐ **YES** ☐ **NO** **WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs?** ☐ **YES** ☐ **NO**	If **YES** to either question, complete reverse side.
QUARTER: **OCT.-DEC.** **DATE/TIME OF OBSERVATIONS** ☐ AM ☐ PM __/__/__ __:__	**Observers Name:** _____ **Title:** _____ **Signature:** _____	**WERE UNAUTHORIZED NSWDs OBSERVED?** ☐ **YES** ☐ **NO** **WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs?** ☐ **YES** ☐ **NO**	If **YES** to either question, complete reverse side.
QUARTER: **JAN.-MARCH** **DATE/TIME OF OBSERVATIONS** ☐ AM ☐ PM __/__/__ __:__	**Observers Name:** _____ **Title:** _____ **Signature:** _____	**WERE UNAUTHORIZED NSWDs OBSERVED?** ☐ **YES** ☐ **NO** **WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs?** ☐ **YES** ☐ **NO**	If **YES** to either question, complete reverse side.
QUARTER: **APRIL-JUNE** **DATE/TIME OF OBSERVATIONS** ☐ AM ☐ PM __/__/__ __:__	**Observers Name:** _____ **Title:** _____ **Signature:** _____	**WERE UNAUTHORIZED NSWDs OBSERVED?** ☐ **YES** ☐ **NO** **WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs?** ☐ **YES** ☐ **NO**	If **YES** to either question, complete reverse side.

SIDE B

STATE FORM 3 QUARTERLY VISUAL OBSERVATIONS OF UNAUTHORIZED NON-STORM WATER DISCHARGES (NSWDs)

OBSERVATION *DATE* (FROM REVERSE SIDE)	**NAME OF *UNAUTHORIZED* NSWD** EXAMPLE: Vehicle Wash Water	**SOURCE AND *LOCATION* OF UNAUTHORIZED NSWD** EXAMPLE: NW Corner of Parking Lot	**DESCRIBE UNAUTHORIZED NSWD CHARACTERISTICS** *Indicate whether unauthorized NSWD is clear, cloudy, discolored, causing stains; contains floating objects or an oil sheen, has odors, etc.*		**DESCRIBE CORRECTIVE *ACTIONS* TO ELIMINATE UNAUTHORIZED NSWD AND TO CLEAN IMPACTED DRAINAGE AREAS. PROVIDE UNAUTHORIZED NSWD ELIMINATION DATE.**
			AT THE UNAUTHORIZED NSWD SOURCE	**AT THE UNAUTHORIZED NSWD AREA AND DISCHARGE LOCATION**	
__/__/__ __:__ ☐AM ☐PM					
__/__/__ __:__ ☐AM ☐PM					
__/__/__ __:__ ☐AM ☐PM					
__/__/__ __:__ ☐AM ☐PM					

SIDE A

STATE FORM 4-MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

- Storm water discharge visual observations are required for at least one storm event per month between October 1 and May 31.
- Visual observations must be conducted during the first hour of discharge at all discharge locations.
- Discharges of temporarily stored or contained storm water must be observed at the time of discharge.
- Indicate "None" in the first column of this form if you did not conduct a monthly visual observation.
- Make additional copies of this form as necessary.
- Until a monthly visual observation is made, record any eligible storm events that do not result in a storm water discharge and note the date, time, name, and title of who observed there was no storm water discharge.

Observation Date: October ____ 2008 Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1	#2	#3	#4
	Observation Time	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.
	Time Discharge Began	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐
Observation Date: November____ 2008 Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1	#2	#3	#4
	Observation Time	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.
	Time Discharge Began	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐
Observation Date: December____ 2008 Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1	#2	#3	#4
	Observation Time	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.
	Time Discharge Began	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐
Observation Date: January____ 2009 Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1	#2	#3	#4
	Observation Time	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.
	Time Discharge Began	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐

SIDE B

STATE FORM 4-MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

DATE/TIME OF OBSERVATION (From Reverse Side)	DRAINAGE AREA DESCRIPTION EXAMPLE: Discharge from material storage Area #2	DESCRIBE STORM WATER DISCHARGE CHARACTERISTICS Indicate whether storm water discharge is clear, cloudy, or discolored; causing staining; containing floating objects or an oil sheen, has odors, etc.	IDENTIFY AND DESCRIBE SOURCE(S) OF POLLUTANTS EXAMPLE: Oil sheen caused by oil dripped by trucks in vehicle maintenance area.	DESCRIBE ANY REVISED OR NEW BMPs AND THEIR DATE OF IMPLEMENTATION
__/__/__ __:__ ☐AM ☐PM				
__/__/__ __:__ ☐AM ☐PM				
__/__/__ __:__ ☐AM ☐PM				
__/__/__ __:__ ☐AM ☐PM				
__/__/__ __:__ ☐AM ☐PM				

SIDE A

STATE FORM 4 (Continued)-MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

- Storm water discharge visual observations are required for at least one storm event per month between October 1 and May 31.
- Visual observations must be conducted during the first hour of discharge at all discharge locations.
- Discharges of temporarily stored or contained storm water must be observed at the time of discharge.
- Indicate "None" in the first column of this form if you did not conduct a monthly visual observation.
- Make additional copies of this form as necessary.
- Until a monthly visual observation is made, record any eligible storm events that do not result in a stor water discharge and note the date, time, name, and title of who observed there was no storm water discharge.

Observation Date: February ____ 2009 Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1	#2	#3	#4
	Observation Time	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.
	Time Discharge Began	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐
Observation Date: March ____ 2009 Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1	#2	#3	#4
	Observation Time	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.
	Time Discharge Began	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐
Observation Date: April ____ 2009 Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1	#2	#3	#4
	Observation Time	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.
	Time Discharge Began	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐
Observation Date: May ____ 2009 Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1	#2	#3	#4
	Observation Time	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.
	Time Discharge Began	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.	: ☐ P.M. ☐ A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐

SIDE B

FORM 4 (Continued)-MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

DATE/TIME OF OBSERVATION (From Reverse Side)	DRAINAGE AREA DESCRIPTION EXAMPLE: Discharge from material storage Area #2	DESCRIBE STORM WATER DISCHARGE CHARACTERISTICS Indicate whether storm water discharge is clear, cloudy, or discolored; causing staining; containing floating objects or an oil sheen, has odors, etc.	IDENTIFY AND DESCRIBE SOURCE(S) OF POLLUTANTS EXAMPLE: Oil sheen caused by oil dripped by trucks in vehicle maintenance area.	DESCRIBE ANY REVISED OR NEW BMPs AND THEIR DATE OF IMPLEMENTATION
__/__/__ __:__ ☐ AM ☐ PM				
__/__/__ __:__ ☐ AM ☐ PM				
__/__/__ __:__ ☐ AM ☐ PM				
__/__/__ __:__ ☐ AM ☐ PM				
__/__/__ __:__ ☐ AM ☐ PM				

STATE FORM 5-ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY BMP STATUS

EVALUATION DATE: ___/___/___ INSPECTOR NAME: _____ TITLE: _____ SIGNATURE: : _____

POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)			Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
Vehicle and Equipment Fueling, Maintenance, and Parking	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐ YES ☐ NO ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ☐ NO	If yes, to either question, complete the next two columns of this form		
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP) **Sandblasting**	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐ YES ☐ NO ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ☐ NO	If yes, to either question, complete the next two columns of this form	Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP) **Oil/Water Separator System**	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐ YES ☐ NO ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ☐ NO	If yes, to either question, complete the next two columns of this form	Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP) **Switchyards**	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐ YES ☐ NO ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ☐ NO	If yes, to either question, complete the next two columns of this form	Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation

STATE FORM 5 (Continued)-ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY BMP STATUS

EVALUATION DATE: ___/___/___ INSPECTOR NAME: _____ TITLE: _____ SIGNATURE: : _____

POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)			Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
Lube Oil System	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐ YES ☐ NO ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ☐ NO	If yes, to either question, complete the next two columns of this form		
General Facility Maintenance	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐ YES ☐ NO ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ☐ NO	If yes, to either question, complete the next two columns of this form		
Generating Units	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐ YES ☐ NO ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ☐ NO	If yes, to either question, complete the next two columns of this form		
Water Intake Structures	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐ YES ☐ NO ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ☐ NO	If yes, to either question, complete the next two columns of this form		

STATE FORM 5 (Continued)-ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY BMP STATUS

EVALUATION DATE: ___/___/___ INSPECTOR NAME: _____ TITLE: _____ SIGNATURE: : _____

POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)			Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
Cooling Water System Cleaning Process Area	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐ YES ☐ NO ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ☐ NO	If yes, to either question, complete the next *two columns of* this form		
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)			Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
Warehouse	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐ YES ☐ NO ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ☐ NO	If yes, to either question, complete the next two columns of this form		
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)			Describe deficiencies in BMPs or BMP *implementation*	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
Hazardous Materials Storage Building	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐ YES ☐ NO ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ☐ NO	*If yes, to either* question, complete the next two columns of this form		
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)			Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
Tank Farms	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐ YES ☐ NO ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ☐ NO	If yes, to either question, complete the next two columns of this form		

STATE FORM 5 (Continued)-ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION

POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY BMP STATUS

EVALUATION DATE: ___/___/___ INSPECTOR NAME: _____ TITLE: _____ SIGNATURE: : _____

POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)			Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
Fuel Oil Additive Storage	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐ YES ☐ NO ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ☐ NO	If yes, to either question, complete the next two columns of this form		
Material Laydown Areas	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐ YES ☐ NO ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ☐ NO	If yes, to either question, complete the next two columns of this form		
Maintenance Shops	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐ YES ☐ NO ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ☐ NO	If yes, to either question, complete the next two columns of this form		
Refuse Containment and Storage Areas	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐ YES ☐ NO ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ☐ NO	If yes, to either question, complete the next two columns of this form		

STATE FORM 5 (Continued)-ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION

POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY BMP STATUS

EVALUATION DATE: ___/___/___ INSPECTOR NAME: _____ TITLE: _____ SIGNATURE: : _____

POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)			Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
Transformer Area	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐ YES ☐ NO ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ☐ NO	If yes, to either question, complete the next two columns of this form		
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)			Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
Ammonia Storage Facility	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐ YES ☐ NO ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ☐ NO	If yes, to either question, complete the next two columns of this form		
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐ YES ☐ NO ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ☐ NO	If yes, to either question, complete the next two columns of this form	Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐ YES ☐ NO ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ☐ NO	If yes, to either question, complete the next two columns of this form	Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation

APPENDIX D STORM DRAIN VALVE STATUS LOG SHEET

South Bay Power Plant

Storm Drain Valve Status Log Sheet

Storm drain openings and surrounding areas must be inspected before opening valves. Valves are to be opened prior to the storm event and closed after the storm passes. If contamination is detected, corrective action must be taken before opening valve.

	Inspection Oil Present		Valve Opened			Valve Closed			
Location	Yes	No	Date	Time	Operator	Date	Time	Operator	**Comments**
1. West of School House									
2. West of Project Engineering Bldg.									
3. South of #3 Serv.Water Heat Exchangers									
4. Between #3 & #4 Screen Wash Houses									
5. Northeast of Machine Shop No. 2									
6. Northwest of Warehouse									
7. Storeroom Receiving Ramp (++)									
8. West of Plant Sewer Lift Station									
9. Between #2 & #3 Condensers									
10. North of Instrument & Electric Shop									
11. Northeast outside Switchyard									
12. Northwest outside Switchyard									

(++) Valve wrench located on rail SW corner of ramp.

When form completed, forward to PTL for signature. _____ Production Team Leader

cc: T. Liebst