

PG&E Letter DCL-2011-516
State Water Resources Control Board (SWRCB)
April 11, 2011

Enclosure 2

Application/Report of Waste Discharge **Diablo Canyon Power Plant**

California Form 200
Application/Report of Waste Discharge
General Information Form
(3-Pages)

US EPA Form 1 General Information
(3-Pages)

Site Topographical Map Displaying Industrial Waste Water Discharge Outfall Locations

US EPA Form 2C NPDES Application for Permit to Discharge Wastewater
Existing Manufacturing, Commercial, Mining, and Silviculture Operations
(46-Pages)

Diablo Canyon Power Plant Waste Water Stream Schematic

Attachment-1: Discharge Pathway Description Table

Attachment-2: Flow Rates and Volumes Continuous and Intermittent Waste Water Streams

Attachment-3: Discharge 001D Liquid Radwaste Treatment (LRW) System Nuclides Discharged

Attachment-4: Power Plant Process Systems Chemical Additives List

Attachment-5: Power Plant Chemistry Laboratory Chemical Reagents and Standards List

Vendor Analytical Data **Columbia Analytical Services**

December 2010 Influent/Effluent Sampling

November 2005 Influent/Effluent Sampling

April 2011

Diablo Canyon Power Plant
Application/Report of Waste Discharge

California Form 200

Application/Report of Waste Discharge

**General Information Form for Waste Discharge
Requirements or NPDES Permit**

(3-Pages)



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



I. FACILITY INFORMATION

A. Facility:

Name: DIABLO CANYON POWER PLANT (DCPP)			
Address: 9 MILES NORTHWEST OF AVILA BEACH			
City: AVILA BEACH	County: SAN LUIS OB	State: CA	Zip Code: 93424
Contact Person: BRYAN K. CUNNINGHAM		Telephone Number: (805) 545-4439	

B. Facility Owner:

Name: PACIFIC GAS & ELECTRIC COMPANY (PG&E)			Owner Type (Check One)	
Address: 77 BEALE STREET			1. <input type="checkbox"/> Individual	2. <input checked="" type="checkbox"/> Corporation
City: SAN FRANCISCO			3. <input type="checkbox"/> Governmental Agency	4. <input type="checkbox"/> Partnership
State: CA			5. <input type="checkbox"/> Other: _____	
Zip Code: 94177				
Contact Person: JAMES R. BECKER, SITE VICE PRESIDENT		Telephone Number: (415) 973-7000	Federal Tax ID: FEIN 94-0742640	

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

Name: SAME AS FACILITY OWNER			Operator Type (Check One)	
Address:			1. <input type="checkbox"/> Individual	2. <input type="checkbox"/> Corporation
City:			3. <input type="checkbox"/> Governmental Agency	4. <input type="checkbox"/> Partnership
State:			5. <input type="checkbox"/> Other: _____	
Zip Code:				
Contact Person:		Telephone Number:		

D. Owner of the Land:

Name: SAME AS FACILITY OWNER			Owner Type (Check One)	
Address:			1. <input type="checkbox"/> Individual	2. <input type="checkbox"/> Corporation
City:			3. <input type="checkbox"/> Governmental Agency	4. <input type="checkbox"/> Partnership
State:			5. <input type="checkbox"/> Other: _____	
Zip Code:				
Contact Person:		Telephone Number:		

E. Address Where Legal Notice May Be Served:

Address: 77 BEALE STREET		
City: SAN FRANCISCO	State: CA	Zip Code: 94177
Contact Person: LINDA Y. H. CHENG, CORPORATE SECRETARY PG&E		Telephone Number: (415) 267-7017

F. Billing Address:

Address: P.O. BOX 56		
City: AVILA BEACH	State: CA	Zip Code: 93424
Contact Person: BRYAN K. CUNNINGHAM		Telephone Number: (805) 545-4439



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)
Facility: 076-011-018
Discharge Point: 076-011-018

2. Latitude
Facility: N35° 12' 44"
Discharge Point: N35° 12' 40"

3. Longitude
Facility: W120° 51' 14"
Discharge Point: W120° 51' 24"

IV. REASON FOR FILING

- New Discharge or Facility
Change in Design or Operation
Change in Quantity/Type of Discharge
Changes in Ownership/Operator (see instructions)
Waste Discharge Requirements Update or NPDES Permit Reissuance
Other: At Request of State Water Resources Control Board

V. CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

Name of Lead Agency: State Water Resources Control Board (SWRCB)
Has a public agency determined that the proposed project is exempt from CEQA? Yes
Basis for Exemption/Agency: 14 CCR Section 15263. Discharge Requirements - Existing Source Exemption.
Expected CEQA Documents: EIR, Negative Declaration
Expected CEQA Completion Date:



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:

Three horizontal lines for listing 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: James M. Welsch Title: Station Director, Diablo Canyon PP
Signature: [Handwritten Signature] Date: 4.11.11

FOR OFFICE USE ONLY

Table with 4 columns: Date Form 200 Received, Letter to Discharger, Fee Amount Received, Check #.

April 2011

Diablo Canyon Power Plant
Application/Report of Waste Discharge

US EPA Form 1

**General Information
Consolidated Permits Program
(3-Pages)**

FORM 1 GENERAL	U.S. ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION Consolidated Permits Program <i>(Read the "General Instructions" before starting.)</i>	I. EPA I.D. NUMBER <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%;">S</td> <td style="width:85%;">CAD077966349</td> <td style="width:5%;">T/A</td> <td style="width:5%;">C</td> </tr> <tr> <td>F</td> <td></td> <td></td> <td>D</td> </tr> <tr> <td>1</td> <td>2</td> <td>13</td> <td>14</td> </tr> <tr> <td></td> <td></td> <td></td> <td>15</td> </tr> </table>	S	CAD077966349	T/A	C	F			D	1	2	13	14				15
S	CAD077966349	T/A	C															
F			D															
1	2	13	14															
			15															
LABEL ITEMS	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 need 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.																
I. EPA I.D. NUMBER																		
III. FACILITY NAME																		
V. FACILITY MAILING ADDRESS																		
VI. FACILITY LOCATION																		
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"	Mark "X"																
YES NO FORM ATTACHED	YES NO FORM ATTACHED	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)	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	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)																
16 17 18	19 20 21	22 23 24																
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)	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	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)																
28 29 30	31 32 33	34 35 36																
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	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)																
37 38 39	40 41 42	43 44 45																
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)	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	H. Do you or will you inject at this facility fluids for special processes such 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)																
46 47 48	49 50 51	52 53 54																
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions 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)	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions 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)																
55 56 57	58 59 60	61 62 63																
III. NAME OF FACILITY																		
C	SKIP	DIABLO CANYON POWER PLANT																
1	15 16 - 29	30 69																
IV. FACILITY CONTACT																		
A. NAME & TITLE (last, first, & title)		B. PHONE (area code & no.)																
C	WELSCH, JAMES M., STATION DIRECTOR	(805) 545-3242																
2	15 16 45	46 48 49 51 52 55																
V. FACILITY MAILING ADDRESS																		
A. STREET OR P.O. BOX																		
C	P.O. BOX 56																	
3	15 16 45																	
B. CITY OR TOWN		C. STATE																
C	AVILA BEACH	CA																
4	15 16 40	41 42 47 51																
D. ZIP CODE		E. ZIP CODE																
93424		93424																
VI. FACILITY LOCATION																		
A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER																		
C	9 MILES NORTHWEST OF AVILA BEACH																	
5	15 16 45																	
B. COUNTY NAME																		
SAN LUIS OBISPO																		
6	46 70																	
C. CITY OR TOWN		D. STATE																
C	AVILA BEACH	CA																
6	15 16 40	41 42 47 51																
E. ZIP CODE		F. COUNTY CODE (if known)																
93424		40																
15 16 40 41 42 47 51 52 54																		

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)															
A. FIRST										B. SECOND					
C	7	4	9	1	1	(specify) electric power generation	C	7				(specify)	15	16	19
C. THIRD										D. FOURTH					
C	7					(specify)	C	7				(specify)	15	16	19

VIII. OPERATOR INFORMATION														
A. NAME												B. Is the name listed in Item VIII-A also the owner?		
C	8	PACIFIC GAS & ELECTRIC COMPANY										<input checked="" type="checkbox"/> YES		<input type="checkbox"/> NO
15	16											55	56	

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box: if "Other," specify.)										D. PHONE (area code & no.)					
F = FEDERAL	M = PUBLIC (other than federal or state)	P (specify)							C	A	(415)	973-7000			
S = STATE	O = OTHER (specify)								15	16	18	19	21	22	26
P = PRIVATE															

E. STREET OR P.O. BOX														
77 BEALE STREET P.O. BOX 770000														
26														55

F. CITY OR TOWN										G. STATE	H. ZIP CODE	IX. INDIAN LAND				
C	B	SAN FRANCISCO								CA	94177	Is the facility located on Indian lands?				
15	16									40	41	42	47	51	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO

X. EXISTING ENVIRONMENTAL PERMITS															
A. NPDES (Discharges to Surface Water)										D. PSD (Air Emissions from Proposed Sources)					
C	T	I	CA0003751							C	T	I			
9	N									9	P				
15	16	17	18	30			15	16	17	18	30				

B. UIC (Underground Injection of Fluids)										E. OTHER (specify)					
C	T	I								C	T	I	(specify)		
9	U									9					
15	16	17	18	30			15	16	17	18	30				

C. RCRA (Hazardous Wastes)										E. OTHER (specify)					
C	T	I	CAD077966349							C	T	I	(specify)		
9	R									9					
15	16	17	18	30			15	16	17	18	30				

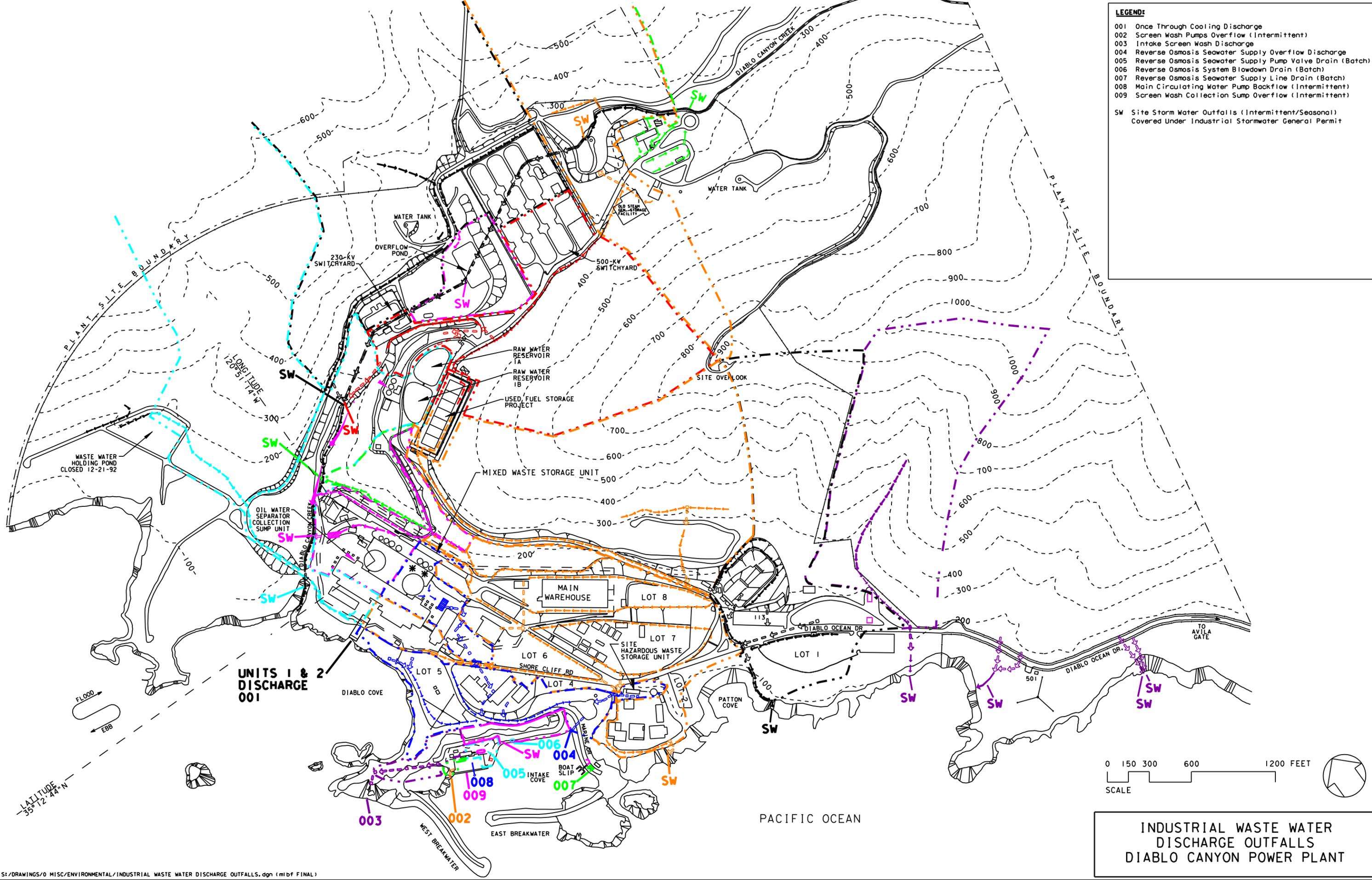
XI. MAP
 Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, 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)
 INVESTOR OWNED PUBLIC UTILITY COMPANY WHICH PROVIDES ELECTRICITY AND GAS SERVICES IN NORTHERN AND CENTRAL CALIFORNIA. DIABLO CANYON POWER PLANT IS A NUCLEAR STEAM ELECTRICAL POWER GENERATION FACILITY CONSISTING OF TWO UNITS WITH A COMBINED RELIABLE NET CAPACIIY OF 2,240 MEGAWATTS (MW) ELECTRIC.

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.

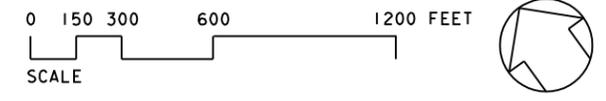
A. NAME & OFFICIAL TITLE (type or print) JAMES M. WELSCH, STATION DIRECTOR DIABLO CANYON POWER PLANT	B. SIGNATURE 	C. DATE SIGNED 4.11.11
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COMMENTS FOR OFFICIAL USE ONLY														
C														
15	16											55		



LEGEND:

001	Once Through Cooling Discharge
002	Screen Wash Pumps Overflow (Intermittent)
003	Intake Screen Wash Discharge
004	Reverse Osmosis Seawater Supply Overflow Discharge
005	Reverse Osmosis Seawater Supply Pump Valve Drain (Batch)
006	Reverse Osmosis System Blowdown Drain (Batch)
007	Reverse Osmosis Seawater Supply Line Drain (Batch)
008	Main Circulating Water Pump Backflow (Intermittent)
009	Screen Wash Collection Sump Overflow (Intermittent)
SW	Site Storm Water Outfalls (Intermittent/Seasonal) Covered Under Industrial Stormwater General Permit



**INDUSTRIAL WASTE WATER
DISCHARGE OUTFALLS
DIABLO CANYON POWER PLANT**

April 2011

Diablo Canyon Power Plant
Application/Report of Waste Discharge

US EPA Form 2C NPDES

**Application for Permit to Discharge Wastewater - Existing
Manufacturing, Commercial, Mining, & Silviculture Operations**

(46-Pages)

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 SILVICULTURE OPERATIONS <i>Consolidated Permits Program</i>
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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 <i>(list)</i>	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER <i>(name)</i>
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
001	35.00	12.00	40.00	120.00	51.00	24.00	Pacific Ocean (Diablo Cove)

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. <i>(list)</i>	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT	
	a. OPERATION <i>(list)</i>	b. AVERAGE FLOW <i>(include units)</i>	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1
001	Once-Through Cooling Water System	2.50E+09 GPD	Screening	1-T
	Main Circulating Water Pump Flow		Dechlorination	2-E
			Ocean Discharge Through Outfall	4-B
001B	Auxillary Salt Water Cooling System	3.48E+07 GPD	Screening	1-T
	Circulating Water Pump Flow			
001D	Liquid Radioactive Waste (LRW)	5.50E+03 GPD	Microstraining (Filtration)	1-N
	Treatment System Effluent		Carbon Absorbtion	2-A
			Coagulation	2-D
			Ion Exchange	2-J
001D Cont.			Landfill	5-Q
001E	Service Cooling Water System	1.24E+07 GPD	Screening	1-T
	Heat Exchanger Flow			
001F	Turbine Building Sump System	3.75E+04 GPD	Flotation (Oil/Water Separation)	1-H
			Coagulation	2-D
			Landfill	5-Q

OFFICIAL USE ONLY (effluent guidelines sub-categories)

Note: Reference EPA Form 2C Attachment-1 for Diablo Canyon Power Plant. Attachment provides additional description details and related information for listed discharge outfalls and power plant 001 contributing sub-process waste water pathways. Attachment-2 summarizes flow rates and volume data.

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 SILVICULTURE OPERATIONS <i>Consolidated Permits Program</i>
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I. OUTFALL LOCATION

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A. OUTFALL NUMBER <i>(list)</i>	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER <i>(name)</i>
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001	35.00	12.00	40.00	120.00	51.00	24.00	Pacific Ocean (Diablo Cove)

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1. OUTFALL NO. <i>(list)</i>	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION <i>(list)</i>	b. AVERAGE FLOW <i>(include units)</i>	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
001G	Makeup Water System Effluent (Brine)	9.65E+04 GPD	n/a	n/a	
001H	Condensate Demineralizer Regenerant	3.35E+04 GPD	Microstraining (Filtration)	1-N	
	System Effluent		Neutralization	2-K	
			Landfill	5-Q	
001I	Seawater Evaporator Blowdown	0.00E+00 GPD	n/a	n/a	
	Treatment System Effluent				
	(Out of Service)				
001J	Condensate Pumps Discharge Header	5.65E+03 GPD	n/a	n/a	
	Overboard				
001K	Condensate Tube Sheet Dump Tank	1.44E+05 GPD	n/a	n/a	
	Overboard				
001L	Steam Generator Blowdown	1.65E+05 GPD	n/a	n/a	

OFFICIAL USE ONLY (effluent guidelines sub-categories)

Note: Reference EPA Form 2C Attachment-1 for Diablo Canyon Power Plant. Attachment provides additional description details and related information for listed discharge outfalls and power plant 001 contributing sub-process waste water pathways. Attachment-2 summarizes flow rates and volume data.

Please print or type in the unshaded areas only.

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A. OUTFALL NUMBER <i>(list)</i>	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER <i>(name)</i>
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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. <i>(list)</i>	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION <i>(list)</i>	b. AVERAGE FLOW <i>(include units)</i>	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
001M	Wastewater Holding and Treatment	1.25E+05 GPD	Flotation (Oil/Water Separation)	1-H	
	(WHAT) System Effluent		Multimedia Filtration	1-Q	
			Sedimentation (Settling)	1-U	
			Coagulation	2-D	
001M Cont.			Disinfection (Chlorine-Chlorination)	2-F	
			Neutralization	2-K	
			Landfill	5-Q	
001N	Sanitary Wastewater Treatment	1.55E+04 GPD	Disinfection (Chlorine-Chlorination)	2-F	
	System Effluent		Activated Sludge	3-A	
			Aerobic Digestion	5-A	
			Land Application (Leach Fields Emergency Only)	5-P	
001P	Seawater Reverse Osmosis Blowdown	7.95E+05 GPD	n/a	n/a	
001Q	Intake Structure Building Sumps	7.20E+04 GPD	n/a	n/a	
	Overboard				

OFFICIAL USE ONLY (effluent guidelines sub-categories)

Note: Reference EPA Form 2C Attachment-1 for Diablo Canyon Power Plant. Attachment provides additional description details and related information for listed discharge outfalls and power plant 001 contributing sub-process waste water pathways. Attachment-2 summarizes flow rates and volume data.

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 SILVICULTURE OPERATIONS <i>Consolidated Permits Program</i>
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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 <i>(list)</i>	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER <i>(name)</i>
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
002	35.00	12.00	28.00	120.00	51.00	22.00	Pacific Ocean (Plant Intake Cove)
003	35.00	12.00	28.00	120.00	51.00	22.00	Pacific Ocean
004	35.00	12.00	23.00	120.00	51.00	13.00	Pacific Ocean (Plant Intake Cove)
005	35.00	12.00	28.00	120.00	51.00	22.00	Pacific Ocean (Plant Intake Cove)
006	35.00	12.00	28.00	120.00	51.00	22.00	Pacific Ocean (Plant Intake Cove)

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. <i>(list)</i>	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION <i>(list)</i>	b. AVERAGE FLOW <i>(include units)</i>	a. DESCRIPTION		b. LIST CODES FROM TABLE 2C-1
002	Intake Screen Wash System Pumps	3.28E+04 GPD	Ocean Discharge Through Outfall		4-B
	Overboard				
003	Intake Screen Wash Discharge	2.64E+06 GPD	Screening		1-T
			Ocean Discharge Through Outfall		4-B
004	Seawater Reverse Osmosis System	5.62E+05 GPD	Ocean Discharge Through Outfall		4-B
	Supply Tank High Level Drain				
005	Seawater Reverse Osmosis System	2.00E+03 GPD	Ocean Discharge Through Outfall		4-B
	Supply Pump Valve Drain (Batch)				
	Rarely Used				
006	Seawater Reverse Osmosis System	4.00E+03 GPD	Ocean Discharge Through Outfall		4-B
	Blowdown Drain (Batch)				
	Rarely Used				

OFFICIAL USE ONLY (effluent guidelines sub-categories)

Note: Reference EPA Form 2C Attachment-1 for Diablo Canyon Power Plant. Attachment provides additional description details and related information for listed discharge outfalls. Attachment-2 summarizes flow rates and volume data.

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal? <input checked="" type="checkbox"/> YES (complete the following table) <input type="checkbox"/> NO (go to Section III)								
1. OUTFALL NUMBER (list)	2. OPERATION(S) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW				C. DURATION (in days)
		a. DAYS PER WEEK (specify average)	b. MONTHS PER YEAR (specify average)	a. FLOW RATE (in mgd)		B. TOTAL VOLUME (specify with units)		
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	
	Reference EPA Form 2C Attachment-2 for Diablo Canyon Power Plant: Flow Rates and Volumes for Continuous (Page-1) and Intermittent (Page-2) Waste Water Flow Paths.							
III. PRODUCTION								
A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility? <input checked="" type="checkbox"/> YES (complete Item III-B) <input type="checkbox"/> NO (go to Section IV)								
B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)? <input type="checkbox"/> YES (complete Item III-C) <input checked="" type="checkbox"/> 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 the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.								
1. AVERAGE DAILY PRODUCTION							2. AFFECTED OUTFALLS (list outfall numbers)	
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)						
IV. IMPROVEMENTS								
A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operations 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. <input type="checkbox"/> YES (complete the following table) <input checked="" type="checkbox"/> NO (go to Item IV-B)								
1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE				
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	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. <input type="checkbox"/> MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED								

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
Possibly Present at Trace Quantities in Outfall 001 via 001D LRW Plant Pathway: Uranium Strontium Zirconium	Uranium and radioactive fission products of Uranium including isotopes of Strontium and Zirconium may be released in minute amounts in Outfall 001 under certain conditions. 2010 Quarterly analytical data from Discharge Pathway 001D (Liquid Radwaste [LRW] Treatment System) for these potential pollutants is provided in Attachment-3.	Plant Process Chemicals List. Chemistry Laboratory Chemicals List.	A listing of plant primary and secondary system process chemicals that may be released in detectable to undetectable concentrations via Outfall 001 is provided in Attachment-4. A listing of chemical reagents and standards used in the power plant primary and secondary analytical chemistry laboratories that may be released in trace quantities via Outfall 001 is provided in Attachment-5.
Possibly Present at Trace Quantities in Outfall 001: Dimethylamine (DMA) Ethylenediamine (EDA) Triethanolamine	EDA and Triethanolamine are only used rarely during plant system chemical cleanings. DMA is used as neutralizing amine in steam generator systems.		

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)

Empty space for listing pollutants not covered by analysis.

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 discharges 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)

The current Diablo Canyon Power Plant NPDES Permit (NPDES No. CA0003751 Order No. 90-09) requires quarterly acute and chronic toxicity bioassays to be performed on samples of Discharge Outfall 001.

The acute bioassay is a 96-hour static test performed on a grab sample from Discharge 001. Juvenile stage red abalone (*Haliotis rufescens*) are used as the test species.

The chronic toxicity bioassay is a 48-hour test performed on a 24-hour composite sample from Discharge 001. Larval red abalone (*Haliotis rufescens*) in immediate post-fertilization development stages are used as the test species.

VIII. CONTRACT ANALYSIS INFORMATION

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

YES (list the name, address, and telephone number 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)
Columbia Analytical Services, Inc.	1317 South 13th Avenue, Kelso, Washington, 98626	(360) 577-7222	Part V-A except for Temperature and pH. Subparts g., h., and i.
Subcontracted by Columbia: ACZ Laboratories, Inc.	2772 Downhill Drive, Steamboat Springs, Colorado, 80487	(800) 334-5493	Part V-B. Part V-C. Part V-B subpart j. Radioactivity Analysis Items (1), (2), (3), & (4).

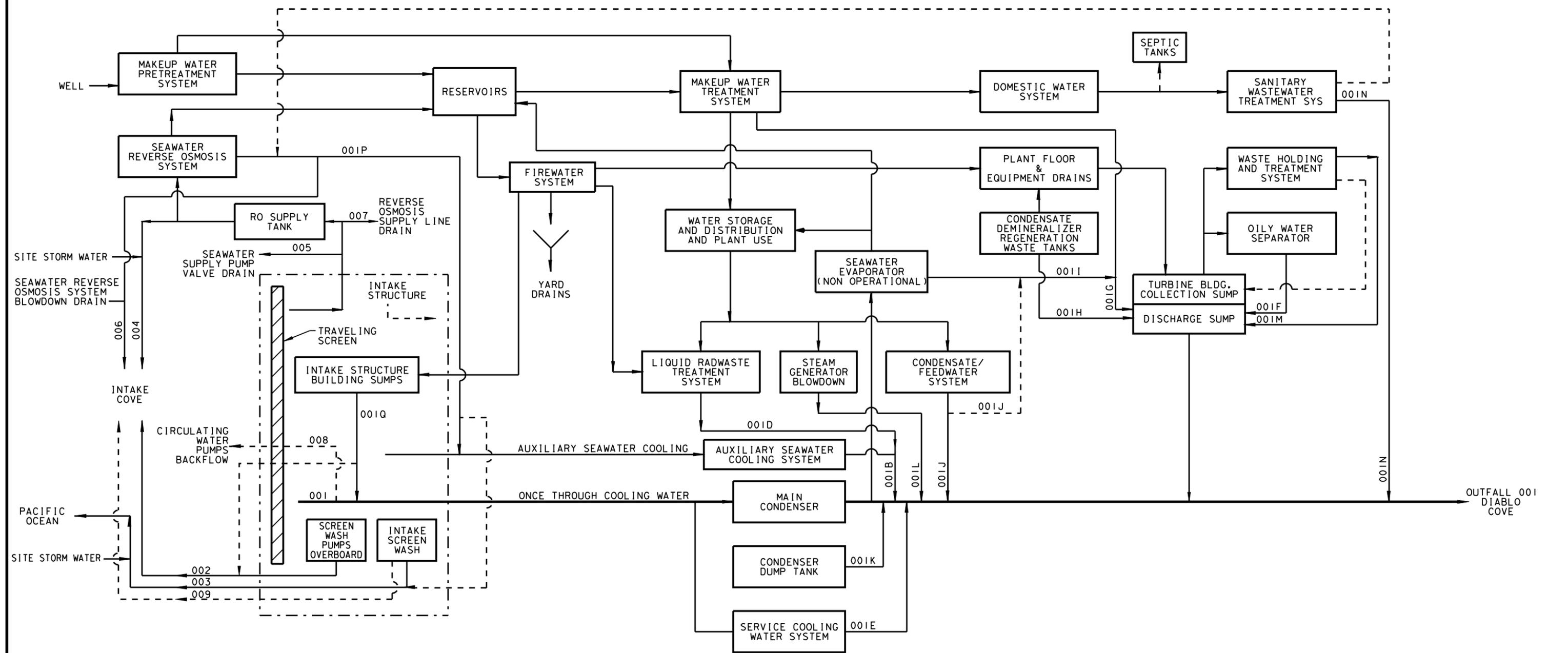
IX. CERTIFICATION

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 & OFFICIAL TITLE (type or print) James M. Welsh, Station Director Diablo Canyon Power Plant	B. PHONE NO. (area code & no.) (805) 545-3242
C. SIGNATURE 	D. DATE SIGNED 4.11.11

DIABLO CANYON POWER PLANT
WASTE WATER STREAM SCHEMATIC

--- Indicates alternate discharge routes.



S:\DesignServices\Drafting\DRAWINGS\0 MISC\ENVIRONMENTAL\WASTE STREAM SCHEMATIC(REV4-11-2011).DGN (mlbf 4-11-2011)

DISCHARGE	DESCRIPTION	VOLUME (gal/day)	DISCHARGE	DESCRIPTION	VOLUME (gal/day)	DISCHARGE	DESCRIPTION	VOLUME (gal/day)	DISCHARGE	DESCRIPTION	VOLUME (gal/day)	DISCHARGE	DESCRIPTION	VOLUME (gal/day)
001	Once Through Cooling Water Pumps	2.50E+09	001G	Makeup Water System Effluent (Brine)	9.65E+04	001L	Steam Generator Blowdown	1.65E+05	002	Screen Wash Pumps Overboard (Intermittent)	3.28E+04	007	Reverse Osmosis Supply Lines Drain (Batch)	1.65E+04
001B	Auxiliary Salt Water Cooling Pumps	3.48E+07	001H	Condensate Demineralizer Regenerant (Intermittent)	3.35E+04	001M	Wastewater Holding & Treatment System (Intermittent)	1.25E+05	003	Intake Screen Wash (Intermittent)	2.64E+06	008	Circulating Water Pumps Backflow (Intermittent)	3.00E+06
001D	Liquid Radioactive Waste Treatment System (Batch 3-12 times/week)	5.50E+03	001I	Seawater Evaporator Blowdown (Non Operational)	0.0E+00	001N	Sanitary Wastewater Treatment System (Intermittent)	1.55E+04	004	Reverse Osmosis System Supply High Level Drain	5.62E+05	009	Screen Wash Collection Sump Overflow (Intermittent)	7.22E+06
001E	Service Cooling Water	1.24E+07	001J	Condensate Pumps Discharge Header Overboard (Intermittent)	5.65E+03	001P	Seawater Reverse Osmosis System Blowdown	7.95E+05	005	Reverse Osmosis Seawater Supply Pump Valve Drain (Batch)	2.00E+03			
001F	Turbine Bldg. Sump (Intermittent)	3.75E+04	001K	Condensate Dump Tank (Batch)	1.44E+05	001Q	Intake Structure Building Sumps (Intermittent)	7.20E+04	006	Seawater Reverse Osmosis System Blowdown Drain (Batch)	4.00E+03			

NOTE: VOLUMES PROVIDED ARE DAILY AVERAGES

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)

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)		OUTFALL NO.
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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						3. UNITS <i>(specify if blank)</i>			4. INTAKE <i>(optional)</i>		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		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	
a. Biochemical Oxygen Demand (BOD)												
b. Chemical Oxygen Demand (COD)												
c. Total Organic Carbon (TOC)												
d. Total Suspended Solids (TSS)												
e. Ammonia (as N)												
f. Flow	VALUE		VALUE		VALUE					VALUE		
g. Temperature (winter)	VALUE		VALUE		VALUE			°C		VALUE		
h. Temperature (summer)	VALUE		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM				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 one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. <i>(if available)</i>	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE <i>(optional)</i>			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		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	
a. Bromide (24959-67-9)														
b. Chlorine, Total Residual														
c. Color														
d. Fecal Coliform														
e. Fluoride (16984-48-8)														
f. Nitrate-Nitrite (as N)														

Note 1: Intake and Discharge Outfall 001 temperature monitoring is continuous. Daily temperature values for Intake and Outfall 001 taken from 2010 DCPD NPDES Annual Monitoring Report. Thirty day and long term values for temperature calculated from data used for the 2010 NPDES Annual Report.

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. 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. CONCEN- TRATION	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	
g. Nitrogen, Total Organic (as N)														
h. Oil and Grease														
i. Phosphorus (as P), Total (7723-14-0)														
j. Radioactivity														
(1) Alpha, Total														
(2) Beta, Total														
(3) Radium, Total														
(4) Radium 226, Total														
k. Sulfate (as SO ₄) (14808-79-8)														
l. Sulfide (as S)														
m. Sulfite (as SO ₃) (14265-45-3)														
n. Surfactants														
o. Aluminum, Total (7429-90-5)														
p. Barium, Total (7440-39-3)														
q. Boron, Total (7440-42-8)														
r. Cobalt, Total (7440-48-4)														
s. Iron, Total (7439-89-6)														
t. Magnesium, Total (7439-95-4)														
u. Molybdenum, Total (7439-98-7)														
v. Manganese, Total (7439-96-5)														
w. Tin, Total (7440-31-5)														
x. Titanium, Total (7440-32-6)														

EPA I.D. NUMBER <i>(copy from Item 1 of Form 1)</i>	OUTFALL NUMBER
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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 if 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 outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE <i>(optional)</i>			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		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	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)															
2M. Arsenic, Total (7440-38-2)															
3M. Beryllium, Total (7440-41-7)															
4M. Cadmium, Total (7440-43-9)															
5M. Chromium, Total (7440-47-3)															
6M. Copper, Total (7440-50-8)															
7M. Lead, Total (7439-92-1)															
8M. Mercury, Total (7439-97-6)															
9M. Nickel, Total (7440-02-0)															
10M. Selenium, Total (7782-49-2)															
11M. Silver, Total (7440-22-4)															
12M. Thallium, Total (7440-28-0)															
13M. Zinc, Total (7440-66-6)															
14M. Cyanide, Total (57-12-5)															
15M. Phenols, Total															
DIOXIN															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)				DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE <i>(optional)</i>			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1)	(2)	(1)	(2)	(1)	(2)				(1)	(2)	
				CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS				CONCENTRATION	MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Accrolein (107-02-8)															
2V. Acrylonitrile (107-13-1)															
3V. Benzene (71-43-2)															
4V. Bis (Chloromethyl) Ether (542-88-1)															
5V. Bromoform (75-25-2)															
6V. Carbon Tetrachloride (56-23-5)															
7V. Chlorobenzene (108-90-7)															
8V. Chlorodibromomethane (124-48-1)															
9V. Chloroethane (75-00-3)															
10V. 2-Chloroethylvinyl Ether (110-75-8)															
11V. Chloroform (67-66-3)															
12V. Dichlorobromomethane (75-27-4)															
13V. Dichlorodifluoromethane (75-71-8)															
14V. 1,1-Dichloroethane (75-34-3)															
15V. 1,2-Dichloroethane (107-06-2)															
16V. 1,1-Dichloroethylene (75-35-4)															
17V. 1,2-Dichloropropane (78-87-5)															
18V. 1,3-Dichloropropylene (542-75-6)															
19V. Ethylbenzene (100-41-4)															
20V. Methyl Bromide (74-83-9)															
21V. Methyl Chloride (74-87-3)															

1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE <i>(optional)</i>			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1)	(2) MASS	(1)	(2) MASS	(1)	(2) MASS				(1)	(2) MASS	
				CONCENTRATION		CONCENTRATION		CONCENTRATION					CONCENTRATION		
GC/MS FRACTION – VOLATILE COMPOUNDS <i>(continued)</i>															
22V. Methylene Chloride (75-09-2)															
23V. 1,1,2,2-Tetrachloroethane (79-34-5)															
24V. Tetrachloroethylene (127-18-4)															
25V. Toluene (108-88-3)															
26V. 1,2-Trans-Dichloroethylene (156-60-5)															
27V. 1,1,1-Trichloroethane (71-55-6)															
28V. 1,1,2-Trichloroethane (79-00-5)															
29V. Trichloroethylene (79-01-6)															
30V. Trichlorofluoromethane (75-69-4)															
31V. Vinyl Chloride (75-01-4)															
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)															
2A. 2,4-Dichlorophenol (120-83-2)															
3A. 2,4-Dimethylphenol (105-67-9)															
4A. 4,6-Dinitro-O-Cresol (534-52-1)															
5A. 2,4-Dinitrophenol (51-28-5)															
6A. 2-Nitrophenol (88-75-5)															
7A. 4-Nitrophenol (100-02-7)															
8A. P-Chloro-M-Cresol (59-50-7)															
9A. Pentachlorophenol (87-86-5)															
10A. Phenol (108-95-2)															
11A. 2,4,6-Trichlorophenol (88-05-2)															

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE <i>(optional)</i>			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		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															
1B. Acenaphthene (83-32-9)															
2B. Acenaphthylene (208-96-8)															
3B. Anthracene (120-12-7)															
4B. Benzidine (92-87-5)															
5B. Benzo (a) Anthracene (56-55-3)															
6B. Benzo (a) Pyrene (50-32-8)															
7B. 3,4-Benzo-fluoranthene (205-99-2)															
8B. Benzo (ghi) Perylene (191-24-2)															
9B. Benzo (k) Fluoranthene (207-08-9)															
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)															
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)															
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)															
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)															
14B. 4-Bromophenyl Phenyl Ether (101-55-3)															
15B. Butyl Benzyl Phthalate (85-68-7)															
16B. 2-Chloro-naphthalene (91-58-7)															
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)															
18B. Chrysene (218-01-9)															
19B. Dibenzo (a,h) Anthracene (53-70-3)															
20B. 1,2-Dichloro-benzene (95-50-1)															
21B. 1,3-Di-chloro-benzene (541-73-1)															

1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE <i>(optional)</i>			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		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 <i>(continued)</i>															
22B. 1,4-Dichlorobenzene (106-46-7)															
23B. 3,3-Dichlorobenzidine (91-94-1)															
24B. Diethyl Phthalate (84-66-2)															
25B. Dimethyl Phthalate (131-11-3)															
26B. Di-N-Butyl Phthalate (84-74-2)															
27B. 2,4-Dinitrotoluene (121-14-2)															
28B. 2,6-Dinitrotoluene (606-20-2)															
29B. Di-N-Octyl Phthalate (117-84-0)															
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)															
31B. Fluoranthene (206-44-0)															
32B. Fluorene (86-73-7)															
33B. Hexachlorobenzene (118-74-1)															
34B. Hexachlorobutadiene (87-68-3)															
35B. Hexachlorocyclopentadiene (77-47-4)															
36B Hexachloroethane (67-72-1)															
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)															
38B. Isophorone (78-59-1)															
39B. Naphthalene (91-20-3)															
40B. Nitrobenzene (98-95-3)															
41B. N-Nitrosodimethylamine (62-75-9)															
42B. N-Nitrosodi-N-Propylamine (621-64-7)															

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE <i>(optional)</i>			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1)	(2)	(1)	(2)	(1)	(2)				(1)	(2)	
				CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS				CONCENTRATION	MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS <i>(continued)</i>															
43B. N-Nitrosodiphenylamine (86-30-6)															
44B. Phenanthrene (85-01-8)															
45B. Pyrene (129-00-0)															
46B. 1,2,4-Trichlorobenzene (120-82-1)															
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)															
2P. α-BHC (319-84-6)															
3P. β-BHC (319-85-7)															
4P. γ-BHC (58-89-9)															
5P. δ-BHC (319-86-8)															
6P. Chlordane (57-74-9)															
7P. 4,4'-DDT (50-29-3)															
8P. 4,4'-DDE (72-55-9)															
9P. 4,4'-DDD (72-54-8)															
10P. Dieldrin (60-57-1)															
11P. α-Endosulfan (115-29-7)															
12P. β-Endosulfan (115-29-7)															
13P. Endosulfan Sulfate (1031-07-8)															
14P. Endrin (72-20-8)															
15P. Endrin Aldehyde (7421-93-4)															
16P. Heptachlor (76-44-8)															

EPA I.D. NUMBER <i>(copy from Item 1 of Form 1)</i>	OUTFALL NUMBER
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CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE <i>(optional)</i>			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		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 – PESTICIDES <i>(continued)</i>															
17P. Heptachlor Epoxide (1024-57-3)															
18P. PCB-1242 (53469-21-9)															
19P. PCB-1254 (11097-69-1)															
20P. PCB-1221 (11104-28-2)															
21P. PCB-1232 (11141-16-5)															
22P. PCB-1248 (12672-29-6)															
23P. PCB-1260 (11096-82-5)															
24P. PCB-1016 (12674-11-2)															
25P. Toxaphene (8001-35-2)															

Note: GC/MS Fraction Pesticides Analysis, Form 2C Page V-8 thru V-9, is not required for steam electric generation facilities. The pesticide laboratory analysis was performed however on the 2010 sampling conducted for the Intake and Outfall 001. The only detected constituent, 11P. Alpha-Endosulfan at 0.00063 ug/L, is not expected to be present in the discharge as there is no source at the facility. The analytical value reported is also below the laboratory Method Reporting Limit (MRL) for Alpha-Endosulfan of 0.02 ug/L.

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)
CAD077966349

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)		OUTFALL NO. 002
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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						3. UNITS (specify if blank)			4. INTAKE (optional)		
	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	
a. Biochemical Oxygen Demand (BOD)	ND						1	mg/L		ND		1
b. Chemical Oxygen Demand (COD)	1,430						1	mg/L		1,280		1
c. Total Organic Carbon (TOC)	0.8						1	mg/L		1.2		1
d. Total Suspended Solids (TSS)	7						1	mg/L		8		1
e. Ammonia (as N)	ND						1	mg/L		ND		1
f. Flow	VALUE 3.60E+05 GPD		VALUE n/a		VALUE 3.28E+04 GPD		n/a	GPD		VALUE n/a		n/a
g. Temperature (winter)	VALUE = Plant Intake		VALUE n/a		VALUE = Plant Intake		Note 1	°C		VALUE 12.4		Note 1
h. Temperature (summer)	VALUE = Plant Intake		VALUE n/a		VALUE = Plant Intake		Note 1	°C		VALUE 11.3		Note 1
i. pH	MINIMUM 7.5	MAXIMUM 8.1	MINIMUM n/a	MAXIMUM n/a			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 one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. 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	
a. Bromide (24959-67-9)	X		59						1	mg/L		61		1
b. Chlorine, Total Residual		X	ND						1	mg/L		ND		1
c. Color	X		5						1	Color Un		5		1
d. Fecal Coliform		X	ND						1	MPN/.1L		ND		1
e. Fluoride (16984-48-8)	X		1.2						1	mg/L		2.3		1
f. Nitrate-Nitrite (as N)	X		0.15						1	mg/L		0.15		1

Note 1: Plant intake temperature is continuously monitored. Intake temperature is substantially equivalent to Discharge 002 flow temperature at any given time. Intake temperatures provided taken from 2010 DCPD NPDES Annual Monitoring Report Data. pH values provided taken from 2010 NPDES Monitoring Data.

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. 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. CONCEN- TRATION	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	
g. Nitrogen, Total Organic (as N)	X		0.2					1	mg/L		0.1		1	
h. Oil and Grease	X		ND					1	mg/L		ND		1	
i. Phosphorus (as P), Total (7723-14-0)	X		0.05					1	mg/L		0.05		1	
j. Radioactivity														
(1) Alpha, Total	X		120					1	pCi/L		540		1	
(2) Beta, Total	X		640					1	pCi/L		1,000		1	
(3) Radium, Total	X		0.83					1	pCi/L		0.66		1	
(4) Radium 226, Total	X		0.05					1	pCi/L		0.17		1	
k. Sulfate (as SO ₄) (14808-79-8)	X		2,590					1	mg/L		2,570		1	
l. Sulfide (as S)	X		ND					1	mg/L		ND		1	
m. Sulfite (as SO ₃) (14265-45-3)		X	ND					1	mg/L		ND		1	
n. Surfactants		X	ND					1	mg/L		ND		1	
o. Aluminum, Total (7429-90-5)	X		50					1	ug/L		53.9		1	
p. Barium, Total (7440-39-3)	X		5.0					1	ug/L		5.0		1	
q. Boron, Total (7440-42-8)	X		3,610					1	ug/L		3,580		1	
r. Cobalt, Total (7440-48-4)	X		1					1	ug/L		1		1	
s. Iron, Total (7439-89-6)	X		53.7					1	ug/L		66.7		1	
t. Magnesium, Total (7439-95-4)	X		1,230					1	mg/L		1,290		1	
u. Molybdenum, Total (7439-98-7)	X		No Result					1	ug/L		11.7		1	
v. Manganese, Total (7439-96-5)	X		5.0					1	ug/L		5.0		1	
w. Tin, Total (7440-31-5)	X		2.0					1	ug/L		2.0		1	
x. Titanium, Total (7440-32-6)	X		10					1	ug/L		10		1	

EPA I.D. NUMBER (copy from Item 1 of Form 1) CAD077066349	OUTFALL NUMBER 002
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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 if 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 outfall. See instructions for additional details and requirements.

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	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X												
2M. Arsenic, Total (7440-38-2)			X												
3M. Beryllium, Total (7440-41-7)			X												
4M. Cadmium, Total (7440-43-9)			X												
5M. Chromium, Total (7440-47-3)			X												
6M. Copper, Total (7440-50-8)			X												
7M. Lead, Total (7439-92-1)			X												
8M. Mercury, Total (7439-97-6)			X												
9M. Nickel, Total (7440-02-0)			X												
10M. Selenium, Total (7782-49-2)			X												
11M. Silver, Total (7440-22-4)			X												
12M. Thallium, Total (7440-28-0)			X												
13M. Zinc, Total (7440-66-6)			X												
14M. Cyanide, Total (57-12-5)			X												
15M. Phenols, Total			X												
DIOXIN															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

Note: Part C (Form 2C Pages V-3 thru V-9) Analysis for Metals, Cyanide, and Total Phenols & GC/MS Fractions is not applicable for Non-Process Waste Waters. All listed pollutants incorporated in Part C are also believed absent from Discharge Outfall 002.

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)
CAD077966349

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)	OUTFALL NO. 003
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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						3. UNITS (specify if blank)		4. INTAKE (optional)			
	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	
a. Biochemical Oxygen Demand (BOD)	ND						1	mg/L		ND		1
b. Chemical Oxygen Demand (COD)	1,940						1	mg/L		1,280		1
c. Total Organic Carbon (TOC)	1.3						1	mg/L		1.2		1
d. Total Suspended Solids (TSS)	7						1	mg/L		8		1
e. Ammonia (as N)	0.25						1	mg/L		ND		1
f. Flow	VALUE 1.51E+07 GPD		VALUE n/a		VALUE 2.64E+06 GPD		n/a	GPD		VALUE n/a		n/a
g. Temperature (winter)	VALUE = Plant Intake		VALUE n/a		VALUE = Plant Intake		Note 1	°C		VALUE 12.4		Note 1
h. Temperature (summer)	VALUE = Plant Intake		VALUE n/a		VALUE = Plant Intake		Note 1	°C		VALUE 11.3		Note 1
i. pH	MINIMUM 7.7	MAXIMUM 8.1	MINIMUM n/a	MAXIMUM n/a			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 one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. 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	
a. Bromide (24959-67-9)	X		64						1	mg/L		61		1
b. Chlorine, Total Residual	X		ND						1	mg/L		ND		1
c. Color	X		5						1	Color Un		5		1
d. Fecal Coliform	X		ND						1	MPN/.1L		ND		1
e. Fluoride (16984-48-8)	X		1.3						1	mg/L		2.3		1
f. Nitrate-Nitrite (as N)	X		0.14						1	mg/L		0.15		1

Note 1: Plant intake temperature is continuously monitored. Intake temperature is substantially equivalent to Discharge 003 flow temperature at any given time. Intake temperatures provided taken from 2010 DCCP NPDES Annual Monitoring Report Data. pH values provided taken from 2010 NPDES Monitoring Data.

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. 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. CONCEN- TRATION	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	
g. Nitrogen, Total Organic (as N)	X		ND					1	mg/L		0.1		1	
h. Oil and Grease	X		ND					1	mg/L		ND		1	
i. Phosphorus (as P), Total (7723-14-0)	X		0.07					1	mg/L		0.05		1	
j. Radioactivity														
(1) Alpha, Total	X		140					1	pCi/L		540		1	
(2) Beta, Total	X		490					1	pCi/L		1,000		1	
(3) Radium, Total	X		1.1					1	pCi/L		0.66		1	
(4) Radium 226, Total	X		0.1					1	pCi/L		0.17		1	
k. Sulfate (as SO ₄) (14808-79-8)	X		2,730					1	mg/L		2,570		1	
l. Sulfide (as S)	X		ND					1	mg/L		ND		1	
m. Sulfite (as SO ₃) (14265-45-3)		X	ND					1	mg/L		ND		1	
n. Surfactants		X	ND					1	mg/L		ND		1	
o. Aluminum, Total (7429-90-5)	X		50					1	ug/L		53.9		1	
p. Barium, Total (7440-39-3)	X		5.0					1	ug/L		5.0		1	
q. Boron, Total (7440-42-8)	X		4,050					1	ug/L		3,580		1	
r. Cobalt, Total (7440-48-4)	X		1					1	ug/L		1		1	
s. Iron, Total (7439-89-6)	X		112					1	ug/L		66.7		1	
t. Magnesium, Total (7439-95-4)	X		1,350					1	mg/L		1,290		1	
u. Molybdenum, Total (7439-98-7)	X		10					1	ug/L		11.7		1	
v. Manganese, Total (7439-96-5)	X		5.0					1	ug/L		5.0		1	
w. Tin, Total (7440-31-5)	X		2.0					1	ug/L		2.0		1	
x. Titanium, Total (7440-32-6)	X		10					1	ug/L		10		1	

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

OUTFALL NUMBER

CAD077066349

003

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 if 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 outfall. See instructions for additional details and requirements.

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	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X												
2M. Arsenic, Total (7440-38-2)			X												
3M. Beryllium, Total (7440-41-7)			X												
4M. Cadmium, Total (7440-43-9)			X												
5M. Chromium, Total (7440-47-3)			X												
6M. Copper, Total (7440-50-8)			X												
7M. Lead, Total (7439-92-1)			X												
8M. Mercury, Total (7439-97-6)			X												
9M. Nickel, Total (7440-02-0)			X												
10M. Selenium, Total (7782-49-2)			X												
11M. Silver, Total (7440-22-4)			X												
12M. Thallium, Total (7440-28-0)			X												
13M. Zinc, Total (7440-66-6)			X												
14M. Cyanide, Total (57-12-5)			X												
15M. Phenols, Total			X												
DIOXIN															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

Note: Part C (Form 2C Pages V-3 thru V-9) Analysis for Metals, Cyanide, and Total Phenols & GC/MS Fractions is not applicable for Non-Process Waste Waters. All listed pollutants incorporated in Part C are also believed absent from Discharge Outfall 003.

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)
CAD077966349

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)	OUTFALL NO. 004
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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						3. UNITS (specify if blank)			4. INTAKE (optional)		
	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	
a. Biochemical Oxygen Demand (BOD)	ND						1	mg/L		ND		1
b. Chemical Oxygen Demand (COD)	1,670						1	mg/L		1,280		1
c. Total Organic Carbon (TOC)	1.1						1	mg/L		1.2		1
d. Total Suspended Solids (TSS)	6						1	mg/L		8		1
e. Ammonia (as N)	ND						1	mg/L		ND		1
f. Flow	VALUE 1.73E+06 GPD		VALUE n/a		VALUE 5.62E+05 GPD		n/a	GPD		VALUE n/a		n/a
g. Temperature (winter)	VALUE = Plant Intake		VALUE n/a		VALUE = Plant Intake		Note 1	°C		VALUE 12.4		Note 1
h. Temperature (summer)	VALUE = Plant Intake		VALUE n/a		VALUE = Plant Intake		Note 1	°C		VALUE 11.3		Note 1
i. pH	MINIMUM 7.6	MAXIMUM 8.2	MINIMUM n/a	MAXIMUM n/a			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 one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. 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	
a. Bromide (24959-67-9)	X		58						1	mg/L		61		1
b. Chlorine, Total Residual	X		ND						1	mg/L		ND		1
c. Color	X		ND						1	Color Un		5		1
d. Fecal Coliform		X	ND						1	MPN/.1L		ND		1
e. Fluoride (16984-48-8)	X		1.2						1	mg/L		2.3		1
f. Nitrate-Nitrite (as N)	X		0.13						1	mg/L		0.15		1

Note 1: Plant intake temperature is continuously monitored. Intake temperature is substantially equivalent to Discharge 004 flow temperature at any given time. Intake temperatures provided taken from 2010 DCP NPDES Annual Monitoring Report Data. pH values provided taken from 2010 NPDES Monitoring Data.

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. 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. CONCEN- TRATION	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	
g. Nitrogen, Total Organic (as N)	X		ND					1	mg/L		0.1		1	
h. Oil and Grease	X		ND					1	mg/L		ND		1	
i. Phosphorus (as P), Total (7723-14-0)	X		0.04					1	mg/L		0.05		1	
j. Radioactivity														
(1) Alpha, Total	X		140					1	pCi/L		540		1	
(2) Beta, Total	X		620					1	pCi/L		1,000		1	
(3) Radium, Total	X		0.9					1	pCi/L		0.66		1	
(4) Radium 226, Total	X		0.15					1	pCi/L		0.17		1	
k. Sulfate (as SO ₄) (14808-79-8)	X		2,540					1	mg/L		2,570		1	
l. Sulfide (as S)	X		ND					1	mg/L		ND		1	
m. Sulfite (as SO ₃) (14265-45-3)		X	ND					1	mg/L		ND		1	
n. Surfactants	X		0.10					1	mg/L		ND		1	
o. Aluminum, Total (7429-90-5)	X		50					1	ug/L		53.9		1	
p. Barium, Total (7440-39-3)	X		5.0					1	ug/L		5.0		1	
q. Boron, Total (7440-42-8)	X		3,540					1	ug/L		3,580		1	
r. Cobalt, Total (7440-48-4)	X		1					1	ug/L		1		1	
s. Iron, Total (7439-89-6)	X		43.3					1	ug/L		66.7		1	
t. Magnesium, Total (7439-95-4)	X		1,260					1	mg/L		1,290		1	
u. Molybdenum, Total (7439-98-7)	X		No Result					1	ug/L		11.7		1	
v. Manganese, Total (7439-96-5)	X		5.0					1	ug/L		5.0		1	
w. Tin, Total (7440-31-5)	X		2.0					1	ug/L		2.0		1	
x. Titanium, Total (7440-32-6)	X		10					1	ug/L		10		1	

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

OUTFALL NUMBER

CAD077066349

004

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 if 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 outfall. See instructions for additional details and requirements.

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	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X												
2M. Arsenic, Total (7440-38-2)			X												
3M. Beryllium, Total (7440-41-7)			X												
4M. Cadmium, Total (7440-43-9)			X												
5M. Chromium, Total (7440-47-3)			X												
6M. Copper, Total (7440-50-8)			X												
7M. Lead, Total (7439-92-1)			X												
8M. Mercury, Total (7439-97-6)			X												
9M. Nickel, Total (7440-02-0)			X												
10M. Selenium, Total (7782-49-2)			X												
11M. Silver, Total (7440-22-4)			X												
12M. Thallium, Total (7440-28-0)			X												
13M. Zinc, Total (7440-66-6)			X												
14M. Cyanide, Total (57-12-5)			X												
15M. Phenols, Total			X												
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

Note: Part C (Form 2C Pages V-3 thru V-9) Analysis for Metals, Cyanide, and Total Phenols & GC/MS Fractions is not applicable for Non-Process Waste Waters. All listed pollutants incorporated in Part C are also believed absent from Discharge Outfall 004.

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE <i>(optional)</i>			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1)	(2)	(1)	(2)	(1)	(2)				(1)	(2)	
				CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS				CONCENTRATION	MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Accrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X												
4V. Bis (Chloromethyl) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X												
6V. Carbon Tetrachloride (56-23-5)			X												
7V. Chlorobenzene (108-90-7)			X												
8V. Chlorodibromomethane (124-48-1)			X												
9V. Chloroethane (75-00-3)			X												
10V. 2-Chloroethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X												
12V. Dichlorobromomethane (75-27-4)			X												
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethane (75-34-3)			X												
15V. 1,2-Dichloroethane (107-06-2)			X												
16V. 1,1-Dichloroethylene (75-35-4)			X												
17V. 1,2-Dichloropropane (78-87-5)			X												
18V. 1,3-Dichloropropylene (542-75-6)			X												
19V. Ethylbenzene (100-41-4)			X												
20V. Methyl Bromide (74-83-9)			X												
21V. Methyl Chloride (74-87-3)			X												

Form 2C Part C, Pages V-4 thru V-9, for Discharge Outfalls 002, 003, and 004. Testing is not required. All listed pollutants are also believed absent from the Discharges.

1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE <i>(optional)</i>			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1)	(2)	(1)	(2)	(1)	(2)				(1)	(2)	
				CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS				CONCENTRATION	MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS <i>(continued)</i>															
22V. Methylene Chloride (75-09-2)			X												
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X												
24V. Tetrachloroethylene (127-18-4)			X												
25V. Toluene (108-88-3)			X												
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X												
27V. 1,1,1-Trichloroethane (71-55-6)			X												
28V. 1,1,2-Trichloroethane (79-00-5)			X												
29V Trichloroethylene (79-01-6)			X												
30V. Trichlorofluoromethane (75-69-4)			X												
31V. Vinyl Chloride (75-01-4)			X												
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X												
2A. 2,4-Dichlorophenol (120-83-2)			X												
3A. 2,4-Dimethylphenol (105-67-9)			X												
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X												
5A. 2,4-Dinitrophenol (51-28-5)			X												
6A. 2-Nitrophenol (88-75-5)			X												
7A. 4-Nitrophenol (100-02-7)			X												
8A. P-Chloro-M-Cresol (59-50-7)			X												
9A. Pentachlorophenol (87-86-5)			X												
10A. Phenol (108-95-2)			X												
11A. 2,4,6-Trichlorophenol (88-05-2)			X												

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE <i>(optional)</i>			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		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															
1B. Acenaphthene (83-32-9)			X												
2B. Acenaphthylene (208-96-8)			X												
3B. Anthracene (120-12-7)			X												
4B. Benzidine (92-87-5)			X												
5B. Benzo (a) Anthracene (56-55-3)			X												
6B. Benzo (a) Pyrene (50-32-8)			X												
7B. 3,4-Benzo-fluoranthene (205-99-2)			X												
8B. Benzo (ghi) Perylene (191-24-2)			X												
9B. Benzo (k) Fluoranthene (207-08-9)			X												
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)			X												
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)			X												
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)			X												
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)			X												
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X												
15B. Butyl Benzyl Phthalate (85-68-7)			X												
16B. 2-Chloro-naphthalene (91-58-7)			X												
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X												
18B. Chrysene (218-01-9)			X												
19B. Dibenzo (a,h) Anthracene (53-70-3)			X												
20B. 1,2-Dichloro-benzene (95-50-1)			X												
21B. 1,3-Di-chloro-benzene (541-73-1)			X												

1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE <i>(optional)</i>			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		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 <i>(continued)</i>															
22B. 1,4-Dichlorobenzene (106-46-7)			X												
23B. 3,3-Dichlorobenzidine (91-94-1)			X												
24B. Diethyl Phthalate (84-66-2)			X												
25B. Dimethyl Phthalate (131-11-3)			X												
26B. Di-N-Butyl Phthalate (84-74-2)			X												
27B. 2,4-Dinitrotoluene (121-14-2)			X												
28B. 2,6-Dinitrotoluene (606-20-2)			X												
29B. Di-N-Octyl Phthalate (117-84-0)			X												
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)			X												
31B. Fluoranthene (206-44-0)			X												
32B. Fluorene (86-73-7)			X												
33B. Hexachlorobenzene (118-74-1)			X												
34B. Hexachlorobutadiene (87-68-3)			X												
35B. Hexachlorocyclopentadiene (77-47-4)			X												
36B Hexachloroethane (67-72-1)			X												
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X												
38B. Isophorone (78-59-1)			X												
39B. Naphthalene (91-20-3)			X												
40B. Nitrobenzene (98-95-3)			X												
41B. N-Nitrosodimethylamine (62-75-9)			X												
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X												

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE <i>(optional)</i>			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		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 <i>(continued)</i>															
43B. N-Nitrosodiphenylamine (86-30-6)			X												
44B. Phenanthrene (85-01-8)			X												
45B. Pyrene (129-00-0)			X												
46B. 1,2,4-Trichlorobenzene (120-82-1)			X												
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Endosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

EPA I.D. NUMBER <i>(copy from Item 1 of Form 1)</i>	OUTFALL NUMBER 002, 003, 004
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CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE <i>(optional)</i>			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		d. NO. OF ANALYSES	a. CONCEN- TRATION	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 – PESTICIDES <i>(continued)</i>															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			X												
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X												

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)
CAD077966349

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)	OUTFALL NO. 005, 006, 007, 008, 009
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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						3. UNITS (specify if blank)			4. INTAKE (optional)		
	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	
a. Biochemical Oxygen Demand (BOD)	Outfalls identified as 005 through 009 are not amenable to sampling and analysis in accordance with Form 2C instructions. These discharges were incorporated in the 2003 Draft NPDES Permit for Diablo Canyon Power Plant developed by the California Central Coast Regional Water Quality Control Board (CCRWQCB). The batch and intermittent type outfall locations primarily involve infrequently used or only potential non plant process waste water discharges. These include discharges such as intake circulating water pump backflows which immediately mix with the power plant seawater intake cove, and reverse osmosis system raw seawater supply line drain points. Analytical results provided for the power plant seawater intake (Form 2C Intake analysis associated with Outfall 001) are substantially equivalent to the water quality characterization expected for these outfall locations with exception of 006 which would be equivalent to plant waste water pathway 001P if used.											
b. Chemical Oxygen Demand (COD)												
c. Total Organic Carbon (TOC)												
d. Total Suspended Solids (TSS)												
e. Ammonia (as N)												
f. Flow												
g. Temperature (winter)												
h. Temperature (summer)												
i. pH												

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 one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. 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	
a. Bromide (24959-67-9)														
b. Chlorine, Total Residual														
c. Color														
d. Fecal Coliform														
e. Fluoride (16984-48-8)														
f. Nitrate-Nitrite (as N)														

Diablo Canyon Power Plant Discharge Pathway Description Table

*For descriptions of items numbered 1, 2, and 3 under the Potential Constituents column, reference **Note 2** at end of table Page-7.*

#	Discharge Pathway Name	Description	Average Volume	Maximum Volume	Discharge Frequency	Potential Constituents
001	Once-Through Cooling Water (OTC) System	The total flow volume into Diablo Cove through Outfall 001 is a combination of once-through cooling water that supplies the main steam condensers for Unit-1 and Unit-2 and the Service Cooling Water Heat Exchangers (001E), Auxiliary Salt Water Cooling Heat Exchangers (001B), and miscellaneous in-plant waste streams (001D through 001Q). Biofouling control is accomplished using oxidants. This discharge is primarily seawater. Note: Maximum Once-Through Cooling (OTC) Circulating Water Volume (All CWP's and ASW Pumps) is 2.56E+09 GPD.	2.53E+09 gallons per day (GPD)	2.57E+09 GPD	Continuous	Seawater, sodium bisulfite, sodium hypochlorite, sodium bromide, Item 2 trace amounts routinely, (Items; 1, 3, potentially only during maintenance activities)
001B	Auxiliary Salt Water Cooling System	Once-through cooling water is used for the Component Cooling Water (CCW) System Heat Exchangers (the CCW is a closed cooling water loop servicing pumps and other loads in the plant emergency cooling and spent fuel storage systems). This discharge is primarily seawater.	3.48E+07 GPD	6.62E+07 GPD	Continuous	Seawater, sodium hypochlorite, (Item 1, potentially only during maintenance activities)
001C	(Discharge Deleted)					
001D	Liquid Radioactive Waste Treatment System Effluent (Batch Release System Tanks)	Liquid radioactive waste (LRW) from radioactive systems is collected, treated, and monitored in a LRW treatment system. Some waste collected in this system may be non-radioactive. This system includes storage tanks for radioactive decay, evaporators, activated carbon filters, ion exchangers, and filters to remove radioactive matter. After decay and/or treatment, individual batches of low-level waste are sampled and analyzed to confirm compliance with discharge limits. Upon confirmation, pathway tanks are discharged into the auxiliary salt water cooling system (001B).	5.50E+03 GPD	5.00E+04 GPD	Intermittent; (Batch) Daily to Weekly	Trace radioactivity below regulatory limits specified in 10 CFR §20 and §50 may be present in the discharge from the LRW system. (Items; 1, 2, 3, potentially only during maintenance activities)
001E	Service Cooling Water System	This system provides once-through-cooling water for the Service Cooling Water System (a closed cooling water loop servicing pumps and other loads in the electric generation system). This discharge is primarily seawater.	1.24E+07 GPD	2.48E+07 GPD	Continuous	Seawater, (Item 1, potentially only during maintenance activities)

Diablo Canyon Power Plant Discharge Pathway Description Table

#	Discharge Pathway Name	Description	Average Volume	Maximum Volume	Discharge Frequency	Potential Constituents
001F	Turbine Building Sump Effluent	Floor drainage from plant system leaks and maintenance activities in the turbine building, buttress areas, and drainage from other sumps, secondary plant systems, secondary systems chemistry laboratories, and firewater system maintenance and testing (reference endnote 1), are collected in the turbine building sump prior to treatment. The turbine building sump effluent is treated in an oily water separator or the Wastewater Holding and Treatment (WHAT) system prior to discharge via a separate sump into the once-through cooling water conduit (001). Treatment aids are used, if necessary, to meet discharge requirements.	3.75E+04 GPD	1.44E+05 GPD	Intermittent; Daily	Items; 1, 2, 3, and polyelectrolytes and/or coagulants, potentially only during maintenance activities.
001G	Makeup Water System Effluent (Brine)	Filter backwashes from make-up water pretreatment and treatment systems, and blowdown from the reverse osmosis systems are discharged to the once-through cooling water conduit (001). This wastewater contains filter backwash, concentrated dissolved solids, and water treatment aids.	9.65E+04 GPD	2.88E+05 GPD	Continuous	Variable to trace amounts of sodium bisulfite, sodium hypochlorite, sulfuric acid, sequestering agents, (Item 2, potentially only during maintenance activities)
001H	Condensate Demineralizer Regenerant	Waste regenerant liquid from the steam-cycle condensate demineralizers is collected in regenerant waste tanks prior to discharge to the once-through cooling water conduit (001). The liquid may be neutralized or filtered, if necessary, to meet discharge requirements.	3.35E+04 GPD	1.50E+05 GPD	Intermittent; Approximate Daily	Items; 1, 2, 3, sodium sulfate, potentially only during maintenance activities
001I	Seawater Evaporator Blowdown (Non-Operational)	Seawater previously was concentrated in the seawater evaporation system and discharged. The evaporator is no longer operational, however, the flow path is still available and used infrequently as an alternative path for discharging condensate. Condensate is primarily demineralized water.	0.00E+00 GPD	0.00E+00 GPD	Intermittent; Rarely	Demineralized water, (Items; 1, 2, 3, potentially only during maintenance activities)

Diablo Canyon Power Plant Discharge Pathway Description Table

#	Discharge Pathway Name	Description	Average Volume	Maximum Volume	Discharge Frequency	Potential Constituents
001J	Condensate Pumps Discharge/ Feedwater System	During normal start-up operations, and occasionally during power operations, condensate from the main condenser hot well will be periodically discharged to improve condensate quality in the steam cycle. The discharge is primarily demineralized water.	5.65E+03 GPD	1.00E+05 GPD	Intermittent; Rarely and During Outages	Demineralized water, (Items; 1, 2, 3, potentially only during maintenance activities)
001K	Condensate Tube Sheet Dump Tank (Batch)	Water from the main condenser tube sheet collection trough will be discharged periodically in order to minimize seawater contamination of the condensate during periods of condenser tube sheet leakage. This discharge is primarily demineralized water and seawater, which may result from condenser leakage.	1.44E+05 GPD	1.44E+05 GPD	Intermittent; (Batch) Rarely	Demineralized water, seawater, (Items; 1, 2, 3, potentially only during maintenance activities)
001L	Steam Generator Blowdown	Normally continuous discharge that contains secondary plant system corrosion products and seawater contaminants from main steam condenser tube leakage.	1.65E+05 GPD	1.38E+06 GPD	Continuous	Item 2 trace amounts routinely, (Items; 1, 3, potentially during maintenance activities)
001M	Wastewater Holding & Treatment System (WHAT)	Water routed to the WHAT system will be periodically discharged. This discharge includes waste water from discharge pathways 001F and 001H requiring further treatment. Treatment may involve coagulation, settling, oil removal, pH adjustment, filtration, or chlorination.	1.25E+05 GPD	2.50E+05 GPD	Intermittent; Daily to Monthly	Items; 1, 2, 3, and sodium hypochlorite, potentially only during maintenance activities
001N	Sanitary Wastewater Treatment System	Sanitary waste is treated in a package treatment facility, with the normal discharge to the Unit-2 once-through cooling water conduit (001). This is a full-secondary treatment facility. In the event both discharge pumps fail, an alternate discharge path is gravity flowed to the seawater reverse osmosis system discharge (001P). This system is periodically chlorinated to control filamentous growth.	1.55E+04 GPD	6.00E+04 GPD	Intermittent; Daily	Full secondary treated waste effluent, potentially trace amounts of sodium hypochlorite

Diablo Canyon Power Plant Discharge Pathway Description Table

#	Discharge Pathway Name	Description	Average Volume	Maximum Volume	Discharge Frequency	Potential Constituents
001P	Seawater Reverse Osmosis System Blowdown	Blowdown from the Seawater Reverse Osmosis System Contains concentrated seawater brine and filter backwash water, with additions of water treatment aids. Blowdown is normally discharged through the plant Intake Structure to the auxiliary salt water system (001B). Treated domestic sanitary wastes (001N) are discharged to the seawater reverse osmosis system blowdown line in the event of a failure of both discharge pumps.	7.95E+05 GPD	1.15E+06 GPD	Continuous	Variable to trace amounts of sodium bisulfite, sodium hypochlorite, ferric sulfate, and sequestering agents, (Item 2, potentially only during maintenance activities)
001Q	Intake Structure Building Sumps Overboard	Drainage from within the Intake Structure including the intake sump, intake once-through cooling water systems, stored water releases, wash water, and firewater system (reference endnote 1), is collected in sumps and normally discharged with the once-through cooling water (001). An alternate flow path is inside the breakwater adjacent to the intake structure w/seawater from the screen wash pump system through outfall 002.	7.20E+04 GPD	2.88E+05 GPD	Intermittent; Daily	Seawater, (Item 1 potentially only during maintenance activities)
002	Screen Wash Pumps Overboard	Excess seawater from the screen wash pumps is discharged inside the breakwater adjacent to the Intake Structure. Significant discharge only occurs when screen wash pump valves are placed in non-standard alignment. Routine discharge is limited to valve leak-by when system is in routine alignment. Under most operating conditions, this discharge is effectively redrawn into the Intake by the operating cooling system.	3.28E+04 GPD	3.60E+05 GPD	Intermittent; Approximate Daily (Valve leak-by only)	Seawater
003	Intake Screen Wash Discharge	Debris from the ocean is washed from the traveling screens at the Intake Structure. The screen wash water, along with ocean debris, is pumped back to the ocean at a point located on the ocean side of the east breakwater. Infrequently, this system may contain oxidants during periods of once-through cooling water chlorination treatment.	2.64E+06 GPD	1.51E+07 GPD	Intermittent; Daily	Seawater, potentially trace amounts of sodium hypochlorite, and sodium bromide, Rainwater

Diablo Canyon Power Plant Discharge Pathway Description Table

#	Discharge Pathway Name	Description	Average Volume	Maximum Volume	Discharge Frequency	Potential Constituents
004	Seawater Reverse Osmosis System Supply Tank High Level Drain	Seawater is pumped from the Intake Structure to the Seawater Reverse Osmosis System (SWRO) Supply Tank. Excess seawater goes out the tank high level piping and outfalls through Discharge 004. The SWRO source water in the Supply Tank may infrequently contain domestic freshwater used as a method of biofouling control. The rainwater drainage system for a portion of the industrial site is collected in a large retention basin that once filled, can spill and combine with the SWRO Supply Tank overflow before entering the Intake Cove. This normally only occurs during significant rainfall events. The discharge is primarily seawater.	5.62E+05 GPD	1.73E+06 GPD	Continuous	Seawater, Rainwater
005	Seawater Reverse Osmosis System Supply Pump Valve Drain (Batch)	A drain is provided in the seawater supply valve box located at the Intake Structure for removal of accumulated seawater (valve leaks or maintenance) and rainwater. Discharge is to the Intake Cove. This discharge is primarily seawater.	2.00E+03 GPD	2.00E+03 GPD	Intermittent; (Batch) Rarely	Seawater, Rainwater
006	Seawater Reverse Osmosis System Blowdown Drain (Batch)	A low-point valve located beside the Intake Structure access road allows the 8" brine line to be drained for repair. Only rare use of the drain during the lifetime of the system is expected. The discharge is to the Intake Cove. This discharge if used would be equivalent to pathway 001P.	4.00E+03 GPD	4.00E+03 GPD	Intermittent; (Batch) Rarely	Seawater
007	Seawater Reverse Osmosis System Supply Lines Drain (Batch)	There are two supply lines for the Seawater Reverse Osmosis System. Each line has a bypass pipe that discharge into the Intake Cove just south of the plant marine craft dock. The seawater supply lines are typically alternated on a regular basis (approximately monthly) so that one can be laid-up dry to control biofouling while the other is in operation. Discharges to the Intake Cove occur when the supply lines are switched.	1.65E+04 GPD	1.65E+04 GPD	Intermittent; (Batch) Approximate Monthly	Seawater

**Diablo Canyon Power Plant
Discharge Pathway Description Table**

#	Discharge Pathway Name	Description	Average Volume	Maximum Volume	Discharge Frequency	Potential Constituents
008	Circulating Water Pumps Backflow (Intermittent)	Occasionally, one or both of the Circulating Water Pumps (CWP) for Unit-1 or Unit-2 may be shut down. When this occurs, water that has been pumped from the Intake Structure up to the main plant steam condenser inlet water boxes will flow by gravity back down and out the Intake. This discharge is primarily seawater. Chemical feed systems are shut down prior to shutting down the Cooling Water Pumps to prevent the discharge of chemicals. Under most conditions, the discharge is effectively redrawn into the intake by the remaining operating cooling pumps.	3.00E+06 GPD	3.00E+06 GPD	Intermittent; Rarely, Circulating Pump Stops	Seawater
009	Screen Wash System Collection Sump Overflow (Intermittent)	Ocean debris accumulates on the traveling screens. This debris is washed off into troughs that feed into the collection sump. Under normal conditions, this material is pumped back to the ocean via Discharge 003. However, on occasion, the collection sump pumps may become clogged and/or debris loading is extremely high. On these rare occasions, the collection sump may fill up with excessive amounts of seawater and ocean debris. The sump is designed to overflow through an opening in the face of the Intake Structure back into the Intake Cove. Discharge from this rare event is effectively redrawn immediately into the operating cooling system.	7.22E+06 GPD	7.22E+06 GPD	Intermittent; Rarely	Seawater

Diablo Canyon Power Plant Discharge Pathway Description Table

- Note 1:** Under normal operating conditions only sodium bisulfite, sodium hypochlorite, and sodium bromide, are routinely present at detectable concentrations in 001 and 001B. Less frequently, during maintenance activities, (e.g. metal cleaning operations), some of the chemicals in Note 2 below may be present in sub-flow paths that flow into the 001 flow path (e.g. 001F) at potentially trace detectable concentrations.
- Note 2:** The following descriptions of potential discharge constituents are referenced by item number in the “Potential Constituents” column of the table above:
1. Corrosion inhibitors and biocide agents used in the freshwater closed cooling water systems may be present in the discharge due to operation, testing and maintenance activities. Corrosion inhibitors may include: potassium molybdate, potassium nitrite, tolytriazole, potassium tetraborate, sodium hydroxide, potassium dichromate, potassium hydroxide, and boric acid. The biocide agents may include glutaraldehyde and isothiazolin. Dispersant that may include: polyglycol and acrylic, sulfonated, or carboxylated polymers; and antifoaming agents that may include polyglycol ester could be used in conjunction with biocides.
 2. Chemicals used in the feed water system and/or the steam generators, may be present in this discharge due to operation, testing and maintenance activities. These chemicals may include: corrosion inhibitors such as: neutralizing amines and pH control agents (ethanolamine (ETA), dimethylamine (DMA), lithium hydroxide, morpholine, 3-methoxypropyl amine (MPA), 2-amino, 2-methyl propanol (AMP), 5-aminopentanol (5AP), and ammonia), ion exchange regeneration agents (sulfuric acid and sodium hydroxide), dispersents (poly acrylic acid (PAA)), reducing agents and oxygen scavengers (hydrazine, carbohydrazide, diethylhydroxylamine (DEHA)), and boric acid during plant operations.
 3. Chemicals used in metal cleaning activities for scale/sludge material dissolution, chelation, or softening that may be present in the discharge during outages are solvents (ethylenediaminetetraacetic acid (EDTA) with triethanolamine, ascorbic acid, citric acid, and surfactants) or scale conditioning agents (ethanoldiamine (EDA), (DMA), dipyriddy, ethanoldiamine (EDA), phenanthroline, and methanol).

**Diablo Canyon Power Plant
Flow Rates and Volumes
Continuous Waste Water Streams**

Pathway		Description	Frequency		Flow Rate		Total Volume	
Outfall	Waste Stream	Operation(s) Contributing Flow	Narrative	Frequency	Nominal (Average) Flow Rate (gpm)	Maximum Flow Rate (gpm)	Long Term Average Flow Rate (GPD)	Maximum Daily Volume (GPD)
001		Once-Through Cooling (OTC) Water System Outfall ⁽¹⁾	Continuous	Daily	1,759,184	1,784,340	2.53E+09	2.57E+09
	001	Once-Through Cooling (OTC) Main Circulating Water Pumps	Continuous	Daily	1,734,000	1,734,000	2.50E+09	2.50E+09
	001B	Auxiliary Salt Water Cooling System Circulating Water Pumps	Continuous	Daily	23,000	46,000	3.48E+07	6.62E+07
	001E	Service Cooling Water Heat Exchanger Flow ⁽²⁾	Continuous	Daily	8,600	17,200	1.24E+07	2.48E+07
	001G	Makeup Water System Waste Effluent	Continuous	Daily	67	200	9.65E+04	2.88E+05
	001L	Steam Generator Blowdown	Continuous	Daily	115	960	1.65E+05	1.38E+06
	001P	Seawater Reverse Osmosis System Blowdown	Continuous	Daily	552	800	7.95E+05	1.15E+06
004		Seawater Reverse Osmosis Supply Tank High Level Drain	Continuous	Daily	390	1,200	5.62E+05	1.73E+06

Notes:

⁽¹⁾ Outfall Values for 001 (Averages and Maximums) Include Aggregate Contributions From All Continuous and Intermittent Process Flow Paths.

⁽²⁾ Flow for Service Cooling Water Heat Exchangers is Taken From and Discharged Back-To the Main Once-Through Cooling (OTC) Water System 001.

**Diablo Canyon Power Plant
Flow Rates and Volumes
Intermittent & Batch Waste Water Streams**

Pathway		Description	Frequency		Flow Rate		Total Volume	
Outfall	Waste Stream	Operation(s) Contributing Flow	Narrative	Frequency	Nominal (Average) Flow Rate (gpm)	Maximum Flow Rate (gpm)	Long Term Average Flow Rate (GPD)	Maximum Daily Volume (GPD)
001		Once-Through Cooling (OTC) Water System Outfall						
	001F	Turbine Building Sump System Effluent	Intermittent	Daily	35	100	3.75E+04	1.44E+05
	001D	Liquid Radioactive Waste Treatment System Effluent	Intermittent	Weekly	35	50	5.50E+03	5.00E+04
	001H	Condensate Demineralizer Regenerate	Intermittent	Daily	160	320	3.35E+04	1.50E+05
	001I	Seawater Evaporator Blowdown ⁽³⁾	Intermittent	Non-Operable	0	0	0.00E+00	0.00E+00
	001J	Condensate Pumps Discharge Header Overboard	Intermittent	Monthly	1,000	1,000	5.65E+03	1.00E+05
	001K	Condensate Tube Sheet Dump Tank Overboard	Intermittent	Rarely	50	100	1.44E+05	1.44E+05
	001M	Wastewater Holding and Treatment System	Intermittent	Monthly	100	500	1.25E+05	2.50E+05
	001N	Sanitary Wastewater Treatment System	Intermittent	Daily	20	110	1.55E+04	6.00E+04
	001Q	Intake Structure Building Floor Drains	Intermittent	Daily	50	200	7.20E+04	2.88E+05
002		Intake Screen Wash Pumps Overboard	Intermittent	Daily	36	250	3.28E+04	3.60E+05
003		Intake Screen Wash Discharge	Intermittent	Daily	7,000	10,500	2.64E+06	1.51E+07
005		Seawater Reverse Osmosis System Supply Pump Valve Drain	Batch	Rarely	n/a	50	n/a	2.00E+03
006		Seawater Reverse Osmosis System Blowdown Drain	Batch	Rarely	n/a	250	n/a	4.00E+03
007		Seawater Reverse Osmosis System Supply Lines Drain	Batch	Monthly	n/a	275	n/a	1.65E+04
008		Circulating Water Pumps Backflow	Intermittent	Rarely	n/a	375,000	n/a	3.00E+06
009		Screen Wash System Collection Sump Overflow	Intermittent	Rarely	n/a	9,000	n/a	7.22E+06

Notes:

⁽³⁾ Equipment is Not Operable But Remains Abandoned in-Place. Flow Pathway Can Be Used as an Alternate for 001J

Diablo Canyon Power Plant

Discharge 001D Liquid Radioactive Waste (LRW) Treatment System 2010 by Calendar Quarter

Uranium, Strontium, and Zirconium Nuclides Discharged

Nuclide	First Quarter 2010		Second Quarter 2010	
	Batch Mode (Ci)	Grams ⁽²⁾	Batch Mode (Ci)	Grams ⁽²⁾
Uranium-235	MDA ⁽³⁾	n/a	MDA ⁽³⁾	n/a
Uranium-238	MDA ⁽³⁾	n/a	MDA ⁽³⁾	n/a
Strontium-89	MDA ⁽³⁾	n/a	MDA ⁽³⁾	n/a
Strontium-90 ⁽¹⁾	MDA ⁽³⁾	n/a	MDA ⁽³⁾	n/a
Strontium-91	MDA ⁽³⁾	n/a	MDA ⁽³⁾	n/a
Strontium-92	MDA ⁽³⁾	n/a	MDA ⁽³⁾	n/a
Zirconium-95 ⁽¹⁾	7.07E-10	3.37E-14	MDA ⁽³⁾	n/a

Nuclide	Third Quarter 2010		Fourth Quarter 2010	
	Batch Mode (Ci)	Grams ⁽²⁾	Batch Mode (Ci)	Grams ⁽²⁾
Uranium-235	MDA ⁽³⁾	n/a	MDA ⁽³⁾	n/a
Uranium-238	MDA ⁽³⁾	n/a	MDA ⁽³⁾	n/a
Strontium-89	MDA ⁽³⁾	n/a	MDA ⁽³⁾	n/a
Strontium-90 ⁽¹⁾	MDA ⁽³⁾	n/a	MDA ⁽³⁾	n/a
Strontium-91	MDA ⁽³⁾	n/a	MDA ⁽³⁾	n/a
Strontium-92	MDA ⁽³⁾	n/a	MDA ⁽³⁾	n/a
Zirconium-95 ⁽¹⁾	7.51E-10	3.57E-14	1.51E-9	7.19E-14

Notes:

⁽¹⁾ Includes Daughters

⁽²⁾ Derivation of Mass Discharged:

Nuclide	Half-Life	Specific Activity Ci/g	1/Specific Activity (g/Ci)
Zirconium-95	65.5-Days	2.10E+4	4.76E-5

⁽³⁾ MDA (Minimum Detectable Activity); Entry Indicates No Activity Detected.

Diablo Canyon Power Plant
Power Plant Process System Chemical Additives
List of Chemicals That Can Be Present in DCPD Discharge 001 Flow Paths

Chemical	Estimated Frequency Chemical Can Be Present in Discharge Flow Path	Comments; System Use and Chemical Purpose
2-amino, 2-methyl propanol (AMP)	³ Occasionally	C
3-methoxypropyl amine (MPA)	³ Occasionally	C
5-aminopentanol (5AP)	³ Occasionally	C
Acrylic / Sulfonated / Carboxylated Polymers	⁴ Rarely	Dispersants
Ammonium Chloride	² Intermittently	C
Ammonium Hydroxide	³ Occasionally	C, Used During Refueling Outage Steam Generator Layup
Ascorbic Acid (Vitamin C)	⁴ Rarely	Used During System Chemical Cleaning Only
Boric Acid	² Intermittently	A
Calcium Carbonate	² Intermittently	C
Carbohydrazide	⁴ Rarely	D
Citric Acid	⁴ Rarely	Used During System Chemical Cleaning Only
Diethylhydroxylamine (DEHA)	⁴ Rarely	D
Dimethylamine (DMA)	³ Occasionally	C
Dipyridyl	⁴ Rarely	Used During System Chemical Cleaning Only
Ethanolamine (ETA)	¹ Continuously	A
Ethylenediamine (EDA)	⁴ Rarely	Used During System Chemical Cleaning Only
Ethylenediaminetetraacetic Acid (EDTA)	⁴ Rarely	Used During System Chemical Cleaning Only
Ferric Sulfate	² Intermittently	E
Glutaraldehyde	³ Occasionally	B
Hydrazine (Maximum Concentration 35%)	² Intermittently	D
Hydrochloric Acid	³ Occasionally	E
Hydrogen Peroxide	⁴ Rarely	Used During Refueling Outages Only
Isothiazolin	³ Occasionally	B
Lithium Hydroxide	² Intermittently	A
Methanol	⁴ Rarely	Used During System Chemical Cleaning Only
Morpholine	⁴ Rarely	C
Oxyalkylate	⁴ Rarely	Surfactant Additive for Cooling Water Biofouling Control
Phenanthroline	⁴ Rarely	Used During System Chemical Cleaning Only
Poly Acrylic Acid (PAA)	³ Occasionally	Iron Dispersant - Steam Generator Systems
Polyglycol	⁴ Rarely	Dispersant
Polyglycol Ester	⁴ Rarely	Antifoaming Agent
Polyquaternary Amine	¹ Continuously	E
Potassium Hydroxide	² Intermittently	A
Potassium Molybdate	³ Occasionally	A
Potassium Nitrite	³ Occasionally	A
Potassium Tetraborate	³ Occasionally	A
Slaked Lime (Calcium Hydroxide)	² Intermittently	C
Sodium Bisulfite	² Intermittently	Used for Once-Through Cooling (OTC) Water Dechlorination
Sodium Bromide	² Intermittently	Used for Once-Through Cooling (OTC) Biofouling Control
Sodium Hydroxide	² Intermittently	C, F, E
Sodium Hypochlorite ^(a)	² Intermittently	Used for Once-Through Cooling (OTC) Biofouling Control
Sodium Metabisulfite	¹ Continuously	E
Sodium Sulfate	² Intermittently	F
Sodium Tripolyphosphate	⁴ Rarely	Cleaning Agent
Sulfuric Acid	² Intermittently	C, F
Tolytriazole	³ Occasionally	A
Triethanolamine	⁴ Rarely	Used During System Chemical Cleaning Only
Zinc Acetate ^(b)	² Intermittently	A

<p>Frequency Descriptions:</p> <p>¹ Continuously: Daily, 24-Hours a Day</p> <p>² Intermittently: Varies From Periodically Each Day to Monthly</p> <p>³ Occasionally: Varies From Once per Month to Once a Year</p> <p>⁴ Rarely: Less Than Once per Year</p>	<p>Legend Comments Section Notations:</p> <p>A - Corrosion Inhibitors - Multiple Systems</p> <p>B - Biocides - Freshwater Closed Cooling Systems</p> <p>C - Neutralizing Amines and pH Control Agents - Steam Generator Systems</p> <p>D - Reducing Agents and Oxygen Scavengers - Steam Generator Systems</p> <p>E - Polyelectrolytes - Domestic Water Treatment Systems</p> <p>F - Ion Exchange Agents - Steam Generator Systems</p>
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^{(a)(b)} Listed process chemicals are not bioaccumulative, with exception of Zinc, based on a review of the persistent, bioaccumulative, and toxic chemical summary report incorporated in 63 FR 60332. Listed chemicals are not identified on California Ocean Plan Table B, however, Ocean Plan includes Total Residual Chlorine (TRC) objective effected by Sodium Hypochlorite use.

Diablo Canyon Power Plant
Power Plant Chemistry Laboratory Chemical Reagents and Standards

5-METHYL-1H-BENZOTRIAZOLE	POTASSIUM HYDROXIDE
ACETONE	POTASSIUM IODATE
ACID, 1-AMINO-2-NAPHTHOL-4-SULFONIC	POTASSIUM IODIDE
ACID, ACETIC	POTASSIUM MOLYBDATE
ACID, ASCORBIC	POTASSIUM NITRATE TECHNICAL GRADE
ACID, CARMINIC	POTASSIUM NITRITE
ACID, GLACIAL ACETIC	POTASSIUM PERMANGANATE
ACID, GLYCOLIC	POTASSIUM PERSULFATE
ACID, HYDROCHLORIC	REFERENCE ELECTROLYTE, 22% KCL
ACID, METHANESULFONIC	SODIUM ACETATE TRIHYDRATE
ACID, NITRIC	SODIUM AZIDE
ACID, OCTANESULFONIC	SODIUM BICARBONATE
ACID, OXALIC	SODIUM BICARBONATE POWDER
ACID, PHOSPHORIC	SODIUM BISULFITE
ACID, SULFURIC	SODIUM BORATE
ALCOHOL, ANHYDROUS	SODIUM BROMATE
ALCOHOL, ETHYL 200 PROOF PUNCTILIOUS	SODIUM CARBONATE
ALCOHOL, ISOPROPYL, 2-PROPANOL	SODIUM CHLORIDE
AMMONIUM ACETATE	SODIUM FLUORIDE
AMMONIUM CHLORIDE	SODIUM FORMATE
AMMONIUM HYDROXIDE, 30%	SODIUM HYDROXIDE
AMMONIUM MOLYBDATE	SODIUM META-BISULFITE
AMMONIUM PERSULFATE	SODIUM NITRITE
AMMONIUM SULFATE	SODIUM SULFATE
AMMONIUM THIOCYANATE	SODIUM SULFITE
BARIUM CHLORIDE	SODIUM THIOSULFATE
BIOBOR JF FUNGICIDE (Substituted Dioxaborinanes)	SPADNS REAGENT
BROMOPHENOL BLUE	STANDARD, Aluminum (Al)
BUFFER SOLUTION, PH-10	STANDARD, Antimony (Sb)
BUFFER SOLUTION, PH-4	STANDARD, Arsenic (As)
BUFFER SOLUTION, PH-7	STANDARD, Barium (Ba)
CARBON, ACTIVATED	STANDARD, Beryllium (Be)
DIETHYLENE GLYCOL	STANDARD, Cadmium (Cd)
EDTA (ETHYLENEDIAMINETETRAACETIC ACID)	STANDARD, Calcium (Ca)
ELECTRODE FILL, ORION, POTASSIUM HYDROXIDE	STANDARD, Chloride (Cl)
ELECTRODE STORAGE SOL, 11% KCL / 1% KH ₂	STANDARD, Chromium (Cr)
ELECTRODE, FILL SOL, ROSS PROBE, 22% POTASSIUM CHLORIDE	STANDARD, Cobalt (Co)
ELIMINOX REAGENT 1 (GLYCINE 95%, FERROZINE IRON REAGENT)	STANDARD, Copper (Cu)
ELIMINOX REAGENT 2 (FERRIC NITRATE 5%, NITRIC ACID)	STANDARD, Fluoride (F ₂)
FERRIC CHLORIDE	STANDARD, Iron (Fe)
FERRIC ION SOLUTION	STANDARD, Lead (Pb)
FERROUS AMMONIUM SULFATE	STANDARD, Lithium (Li)
FREON, 1,1,2 -TRICHLOROTRIFLUOROETHANE	STANDARD, Magnesium (Mg)
GLUTARALDEHYDE, MICROBIOCIDAL	STANDARD, Magnesium (Mn)
GLYCEROL, ANHYDROUS	STANDARD, Molybdenum (Mo)
HYDRAZINE < 37%	STANDARD, Nickel (Ni)
HYDROGEN PEROXIDE	STANDARD, Potassium (K)
HYDROXYLAMINE HYDROCHLORIDE	STANDARD, Selenium (Se)
INDIGO CARMINE INDICATOR	STANDARD, Silver (Ag)
LITHIUM HYDROXIDE	STANDARD, Sodium (Na)
LTSA, DIESEL FUEL OIL ADDITIVE	STANDARD, Strontium (Sr)
MANGANOUS SULFATE	STANDARD, Thallium (Tl)
MANNITOL POWDER	STANDARD, Tin (Sn)
MERCURIC THIOCYANATE	STANDARD, Titanium (Ti)
METHANOL, ABSOLUTE	STANDARD, Vanadium (V)
METHYL ISOBUTYL KETONE	STANDARD, Yttrium (Y)
METHYL ORANGE	STANDARD, Zinc (Zn)
MONOETHANOLAMINE	STARCH
OPTIFLUOR, SCINTILLATION FLUID	STODDARD SOLVENT
P-DIMETHYLAMINO-BENZALDEHYDE (PDAB)	TISAB II, REAGENT (SODIUM CHLORIDE, ACETIC ACID, CDTA)
PHENANTHROLINE 1,10-MONOHYDRATE	TOC (TOTAL ORGANIC CONTENT) ORGANIC STANDARD
PHENOLPHTHALEIN	TOLUENE
PHENYLARSINE OXIDE	TOLYTRIAZOLE
POTASSIUM BIPHTHALATE	TRACE CLEAN SOLUTION
POTASSIUM CHLORIDE	ZINC ACETATE
POTASSIUM DICHROMATE	