APPALACHIAN POWER COMPANY

Glen Lyn Plant
Giles County, Virginia

VPDES Permit Renewal Application

Virginia Department of Environmental Quality
VPDES Permit No. VA0000370

Prepared by:

American Electric Power Service Corporation
Environmental Services
1 Riverside Plaza
Columbus, Ohio 43215

Prepared for:

Appalachian Power Company
Glen Lyn Plant
U.S. Route 460
Glen Lyn, Virginia 24093

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January 2009

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Public Notice Billing Information Form

PUBLIC NOTICE BILLING INFORMATION FORM

I hereby authorize the Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent/Department shown below. The public notice will be published once a week for two consecutive weeks in accordance with 9 VAC 25-31-290. C. 2.

Agent/Department to be billed: Alan R. Wood, P.E.

Owner: c/o American Electric Power

Applicant's Address: 1 Riverside Plaza

Columbus, Ohio 43125

Agent's Telephone No: 614-716-1233

Authorizing Agent: _____
(signature)

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Facility Name: APCo-Glen Lyn Plant
Permit No. VA0000370

Please return to: Attn: _____
Virginia Department of Environmental Quality
West Central Regional Office
3019 Peters Creek Road
Roanoke, VA 24019
Phone: 540-562-6700
Fax: 540-562-6725

EPA General Form 1

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

Form Approved. OMB No. 2040-0086. Approval expires 5-31-92

FORM 1 GENERAL	EPA	U. S. ENVIRONMENTAL PROTECTION AGENCY **GENERAL INFORMATION** *Consolidated Permits Program* *(Read the "General Instructions" before starting)*	1. EPA I.D. NUMBER	VAD001894542

S F		T/A	C D
1	2 — 13	14	15

LABEL ITEMS	
I. EPA I.D. NUMBER	
III. FACILITY NAME	
V. FACILITY MAILING ADDRESS	
VI. FACILITY LOCATION	

VAD001894542
Glen Lyn Plant
c/o American Electric Power
1 Riverside Plaza
Columbus, Ohio 43215

U.S. Route 460
Glen Lyn, Virginia 24093

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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.

II. POLLUTANT CHARACTERISTICS

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

SPECIFIC QUESTIONS	MARK "X" YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	MARK "X" YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X		B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
	16	17	18		19	20	21
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)	X		X	D. Is this a proposed facility *(other than those described in A or B above)* which will result in a discharge to waters of the U.S.? (FORM 20)		X	
	22	23	24		25	26	27
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)		X		F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
	28	29	30		31	32	33
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes 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)		X	
	34	35	36		37	38	39
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)		X		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)		X	
	40	41	42		43	44	45

III. NAME OF FACILITY

C 1 SKIP GLEN LYN PLANT
15 16 - 29 30 — 69

IV. FACILITY CONTACT

	A. NAME & TITLE *(last, first, & title)*	B. PHONE *(area code & no.)*		
C 2	WOOD, ALAN R. MANAGER, WATER & ECOLOGICAL RESOURCE SERVICES	614	716	1233
15	16 — 45	46 - 48	49 - 51	52 - 55

V. FACILITY MAILING ADDRESS

A. STREET OR P. O. BOX
C 3 1 RIVERSIDE PLAZA
15 16 — 45

B. CITY OR TOWN	C. STATE	D. ZIP CODE
C 4 COLUMBUS	OH	43215
15 16 — 40	41 42	47 51

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER
C 5 U. S. ROUTE 460
15 16 — 45

B. COUNTY NAME
GILES
16 — 70

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE (if known)
C 6 GLEN LYN	VA	24093	
15 16 — 40	41 42	47 - 51	52 - 54

CONTINUE ON REVERSE

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

A. FIRST	B. SECOND
C 7 4911 (specify) ELECTRIC SERVICE	C 7 (specify) N/A
C. THIRD	**D. FOURTH**
C 7 (specify) N/A	C 7 (specify) N/A

VIII. OPERATOR INFORMATION

A. NAME: C 8 APPALACHIAN POWER COMPANY c/o AMERICAN ELECTRIC POWER

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

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

F = FEDERAL
S = STATE
P = PRIVATE
M = PUBLIC *(other than federal or state)*
O = OTHER *(specify)*

P (specify)

D. PHONE *(area code & no)*: C A 614 716 1233

E. STREET OR P. O. BOX: 1 RIVERSIDE PLAZA

F. CITY OR TOWN	G. STATE	H. ZIP CODE
C B COLUMBUS	OH	43215

IX. INDIAN LAND

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

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES *(Discharges to Surface Water)*				D. PSD *(Air Emissions from Proposed Sources)*					
C	T	1		C	T	1			
9	N		VA0000370	9	P		REG. NO. 20460		
B. UIC *(Underground Injection of Fluids)*				E. OTHER *(specify)*					
C	T	1		C	T	1			(specify)
9	U		N/A	9					
C. RCRA *(Hazardous Wastes)*				E. OTHER *(specify)*					
C	T	1		C	T	1			(specify)
9	R		N/A	9					

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 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)***

The Company is involved in the generation and distribution of electric power. The Glen Lyn Plant consists of one 90 Mw coal-fired unit and one 240 Mw coal-fired unit. Both units have electrostatic precipitators and once-through cooling.

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XIII. CERTIFICATION (see instructions)

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

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE
John M. McManus Vice President, Environmental Services	John M. McManus	1/9/09

COMMENTS FOR OFFICIAL USE ONLY

EPA Form 2C for Outfalls 001, 002, 003, 004, 005, 006 and 007

Please print or type in the unshaded areas only.

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*
VAD001894542

Form Approved
OMB No. 2040-0086
Approval expires 5-31-92

Form 2C NPDES

EPA

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

I. OUTFALL LOCATION

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

A. OUTFALL NUMBER (list)	B. LATITUDE			C. LONGITITUDE			D. RECEIVING WATER (name)
	1. DEG	2. MIN	3. SEC	1. DEG	2. MIN	3. SEC	
001	37	22	15	80	51	44	New River via Ginny Hollow
002	37	22	18	80	51	49	New River
003	37	22	18	80	51	49	New River

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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 (list)	2. OPERATION(S) CONTRIBUTING FLOW			3. TREATMENT		
	a. OPERATION (list)	b. AVERAGE FLOW (INCLUDE UNITS)		a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
001	Unit 6 Turbine Oil Cooler			Discharge to surface water	4-A	
	Once-Through Cooling Tower	0.35	MGD	Skimming		
	Maximum Rainfall	1.93	MGD	(Impact: 10 yr-24 hr Storm)		
	Total Flow	2.28	MGD			
002	Unit 6 Once-Through			Discharge to surface water	4-A	
	Condenser Cooling Water					
	(Approx. 20% of Total)	44.3	MGD			
003	Unit 5 Once-Through			Discharge to surface water	4-A	
	Condenser Cooling Water	124	MGD			

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Form 2C NPDES

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

I. OUTFALL LOCATION

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

A. OUTFALL NUMBER (list)	B. LATITUDE			C. LONGITITUDE			D. RECEIVING WATER (name)
	1. DEG	2. MIN	3. SEC	1. DEG	2. MIN	3. SEC	
004	37	22	23	80	52	02	East River, tributary to New River

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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 (list)	2. OPERATION(S) CONTRIBUTING FLOW			3. TREATMENT		
	a. OPERATION (list)	b. AVERAGE FLOW (INCLUDE UNITS)		a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
004	Bottom Ash/Wastewater			Flow Equalization	X-X	
	Treatment Pond			Sedimentation	1-U	
				Skimming		
	Sources:			Coagulation	2-D	
	Unit 5 bottom ash transport	0.654	MGD	Discharge to surface water	4-A	
	Unit 6 bottom ash transport	0.708	MGD			
	Screen house sump	0.219	MGD			
	Unit 5 bilge sump	0.570	MGD			
	Unit 5 bottom ash sump					
	overflow					
	Unit 5 precipitator floor &					
	roof drains					
	Unit 5 hotwell sump					
	Unit 5 cooling & seal water					
	no. 1 sump					
	Unit 5 boiler blowdown					
	Unit 6 bioler room sump	0.821	MGD			
	Water treatment waste &					
	filter backwash					
	Unit 6 boiler blowdown					
	Unit 6 turbine room sump					
	Unit 6 bottom ash transport					
	system overflow					

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Approval expires 5-31-92

Form 2C NPDES

EPA

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

I. OUTFALL LOCATION

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

A. OUTFALL NUMBER (list)	B. LATITUDE			C. LONGITITUDE			D. RECEIVING WATER (name)
	1. DEG	2. MIN	3. SEC	1. DEG	2. MIN	3. SEC	
005	37	22	20	80	52	00	East River, tributary to New River
502	37	22	20	80	52	02	East River via Outfall 005, trib. to New River

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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 (list)	2. OPERATION(S) CONTRIBUTING FLOW			3. TREATMENT		
	a. OPERATION (list)	b. AVERAGE FLOW (INCLUDE UNITS)		a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
004	Sources: (continued)					
	Coal pile drainage	0.281	MGD			
	Subtotal Flow	3.253	MGD			
	Maximum Rainfall	0.500	MGD	(Impact: 10 yr - 24 hr Storm)		
	Maximum Water Treatment	0.415	MGD			
	Filter Backwash					
	Total Flow	4.168	MGD			
005	Unit 6 Discharge Flume			Discharge to Surface Water	4-A	
	Unit 6 once-through cooling					
	water (approx. 80% of flow)	177.41	MGD			
	Unit 5 turbine water cooler	1.34	MGD			
	Maximum Rainfall	0.06	MGD	(Impact: 10 yr-24 hr Storm)		
	(Outfall 502)					
	Total Flow	178.83	MGD			

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OMB No. 2040-0086
Approval expires 5-31-92

Form 2C NPDES

EPA

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

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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 (list)	B. LATITUDE			C. LONGITITUDE			D. RECEIVING WATER (name)
	1. DEG	2. MIN	3. SEC	1. DEG	2. MIN	3. SEC	
006	37	22	28	80	52	07	Adair Run, tributary to New River
See Appendix A, Note 1 for proposed relocation of Outfall 006 directly to the New River							
007	37	22	56	80	52	48	New River
008	37	22	35	80	52	19	Unnamed tributary to Adair Run

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

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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 (list)	2. OPERATION(S) CONTRIBUTING FLOW			3. TREATMENT		
	a. OPERATION (list)	b. AVERAGE FLOW (INCLUDE UNITS)		a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
006	Fly Ash Treatment Pond			Skimming	x-x	
	Unit 5 fly ash transport			Flow Equalization	x-x	
	Unit 6 fly ash transport			Sedimentation	1-U	
	Subtotal Flow	2.8	MGD	Neutralization	2-K	
	Rainfall	0.76	MGD	Coagulation	2-D	
	Total Flow	3.56	MGD	Discharge to Surface Water	4-A	
007	Ash Storage Landfill Runoff			Flow Equalization	x-x	
	Sources:			Sedimentation	1-U	
	Leachate collection			Skimming	x-x	
	Underground spring			Coagulation	2-D	
				Discharge to Surface Water	4-A	
	Stormwater runoff	1.043	MGD	(Impact: 10 yr-24 hr Storm)		
	Est. Total Flow	0.216				
008	Stormwater Management			Flow Equalization	x-x	
	Pond			Sedimentation	1-U	
	Source: Non-contact runoff			Discharge to Surface Water	4-A	
	from Adair Run landfill	4.07	MGD	(Impact: 10 yr-24 hr Storm)		

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

☒ Yes *(complete the following table)* ☐ No *(go to Section III)*

OUTFALL NUMBER *(list)*	2. OPERATION(s) CONTRIBUTING FLOW *(list)*	3. FREQUENCY a. DAYS PER WEEK (specify average)	3. FREQUENCY b. MONTHS PER YEAR (specify average)	4. FLOW a. FLOW RATE *(in mgd)*	4. FLOW b. TOTAL VOLUME *(specify with units)*	4. FLOW c. DURATION *(in days)*
006	Fly Ash Pond Discharge	(See Appendix A, Note 1, Outfall 006 Description)				
008	Stormwater Management Pond	(See Appendix A, Note 1, Outfall 008 Description)				

III. PRODUCTION

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

☒ Yes *(complete Item III-B)* ☐ No *(go to Section IV)*

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

☐ Yes *(complete Item III-C)* ☒ No *(go to Section IV)*

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

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

IV. Improvements

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to , permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions. ☐ Yes *(complete the following table)* ☒ No *(go to Item IV-B)*

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

OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. ☐ **MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED**

 CONTINUE ON PAGE 3

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EPA I. D. NUMBER *(copy from Item 1 of Form1)*
VAD001894542

V. INTAKE AND EFFLUENT CHARACTERISTICS

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
Uranium Strontium Zirconium	These may be found in trace quantities in bottom ash or fly ash due to their presence in coal. No analytical data exists for this facility.	Vanadium	May be found in bottom ash or fly ash due to its presence in coal. An April 28, 2003 sample at Outfall 004 confirmed the presence of 5 µg/L vanadium.
Asbestos	Some older equipment contains asbestos insulation. Proper precautions for containment and disposal are taken when any of this equipment is worked on.	Triethanolamine	An ingredient of KLEEN MCT511, which is an optional cleaner for the facility's reverse osmosis unit.

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)*

Since the facility is a steam electric power plant, coal is the primary source of pollutants. Certain of the constituents of coal translate during the combustion process into pollutants that vary in quantity and composition depending upon the coal used in the electricity-producing process. This quantity and composition of pollutants may also vary as the plant's coal source is occasionally varied for economic and/or technical reasons. Additionally, other sources of pollutants may include constituents found in fuel oil or boiler cleaning solutions.

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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 purpose below)* ☐ No (go to Section VIII)

Sample Dates	Toxicity Test	Test Result
Outfall 004		
December 3, 2007	48-hr *Ceriodaphnia dubia* acute	LC_{50} > 72% effluent (Tu_a 1.4)
	3-brood *Ceriodaphnia dubia* chronic	NOEC = 8% effluent (Tu_c 12.5)
Outfall 007		
December 11, 2007	48-hr *Ceriodaphnia dubia* acute	LC_{50} > 100% effluent (Tu_a 1.0)
Outfall 502 (Stormwater)		
August 23, 2005	48-hr *Ceriodaphnia dubia* acute	LC_{50} 45.3% effluent
	48-hr *Pimephales promelas* acute	LC_{50} > 100% effluent
August 8, 2006	48-hr *Ceriodaphnia dubia* acute	LC_{50} > 100% effluent
	48-hr *Pimephales promelas* acute	LC_{50} > 100% effluent
July 24, 2007	48-hr *Ceriodaphnia dubia* acute	LC_{50} 61.6% effluent
	48-hr *Pimephales promelas* acute	LC_{50} > 100% effluent
August 21, 2007	48-hr *Ceriodaphnia dubia* acute	LC_{50} 22.9% effluent
August 28, 2008	48-hr *Ceriodaphnia dubia* acute	LC_{50} 78.8% effluent
	48-hr *Pimephales promelas* acute	LC_{50} > 100% effluent
Outfall 901 (Stormwater)		
August 23, 2005	48-hr *Ceriodaphnia dubia* acute	LC_{50} > 100% effluent
	48-hr *Pimephales promelas* acute	LC_{50} > 100% effluent
August 8, 2006	48-hr *Ceriodaphnia dubia* acute	LC_{50} > 100% effluent
	48-hr *Pimephales promelas* acute	LC_{50} > 100% effluent
July 24, 2007	48-hr *Ceriodaphnia dubia* acute	LC_{50} > 100% effluent
	48-hr *Pimephales promelas* acute	LC_{50} > 100% effluent
August 28, 2008	48-hr *Ceriodaphnia dubia* acute	LC_{50} > 100% effluent
	48-hr *Pimephales promelas* acute	LC_{50} > 100% effluent

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 plooutants analytized 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)*
See Appendix A, Note 2			

RECEIVED JAN 12 2009 DEQ - BRRO

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 this information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant pealties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE *(type or print)*	B. PHONE NO. *(area code & no.)*
John M. McManus Vice President, Environmental Services	(614) 716-1268
C. SIGNATURE John M McManus	**D. DATE SIGNED** 1/9/09

EPA I.D. NUMBER
VAD001894542

V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 001

TABLE A

1. POLLUTANT	2. EFFLUENT							3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		b. No. of Analyses
	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
a. BOD	< 2.0	<0.0					1	mg/l	kg/d	11	11508	1
b. COD	21	0.11					1	mg/l	kg/d	6	6277	1
c. TOC	2.73	0.01					1	mg/l	kg/d	2.4	2511	1
d. TSS	<1.0	<0.0					1	mg/l	kg/d	3	3139	1
e. Ammonia *(as N)*	< 0.03	<0.0					1	mg/l	kg/d	< 0.03	<31.39	1
f. Flow	VALUE:	0.745	VALUE:	0.676	VALUE:	0.385	52	MGD		VALUE:	276.4	1
g. Temperature *(winter)*	VALUE:		VALUE:		VALUE:			° C		VALUE:		
h. Temperature *(summer)*	VALUE:	22.3	VALUE:		VALUE:		1	° C		VALUE:	11.6	1
i. pH	Minimum 8.15	Maximum 8.15	Minimum	Maximum			1	Standard Units				

TABLE B

1. POLLUTANT	2. Mark 'X'		3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Believed Present	b. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
			(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
a. Bromide	x		< 0.06	<0.00					1	mg/l	kg/d	< 0.06	<62.77	1
b. Chloride	x		71.4	0.38					1	mg/l	kg/d	16.2	16948	1
c. Chlorine, Tot. Residual	x		<0.10	<0.00					1	mg/l	kg/d	<0.10	<104.6	1
d. Color	x		VALUE:	<5.0	VALUE:		VALUE:		1	Color Units		VALUE:	<5.0	1
e. Fecal Coliform	x		VALUE:	15	VALUE:		VALUE:		1	colonies/100ml		VALUE:	38	1
f. Fluoride	x		0.06	0.0003					1	mg/l	kg/d	0.06	62.77	1
g. Nitrate/Nitrite	x		1.47	0.01					1	mg/l	kg/d	0.87	910.2	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 001

TABLE B (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Believed Present	2. Mark 'X' b. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	a. MAXIMUM DAILY VALUE (2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	b. MAXIMUM 30 DAY VALUE (2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	c. LONG TERM AVRG. VALUE (2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	4. UNITS b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	5. INTAKE a. LONG TERM AVRG. VALUE (2) Mass	5. INTAKE d. No. of Analyses
h. TON	x		<0.05	<0.0					1	mg/l	kg/d	<0.05	<52.31	1
i. O&G	x		<2	<0.0					1	mg/l	kg/d	<2	<2092	1
j. Phosphorus	x		0.08	0.0004					1	mg/l	kg/d	0.14	146.5	1
k. Radioactivity														
(1) Total Alpha	x		VALUE: 0.08±1.44		VALUE:		VALUE:		1	pCi/liter		VALUE: 0.91±1.68		1
(2) Total Beta	x		VALUE: 1.5±2.5		VALUE:		VALUE:		1	pCi/liter		VALUE: 6.7±2.7		1
(3) Total Radium	x		VALUE: 0.10±0.48		VALUE:		VALUE:		1	pCi/liter		VALUE: 0.15±0.44		1
(4) Radium 226	x		VALUE: 0.01±0.21		VALUE:		VALUE:		1	pCi/liter		VALUE: 0.15±0.28		1
l. Sulfate	x		17.9	0.09					1	mg/l	kg/d	17.7	18517	1
m. Sulfide	x		< 0.5	<0.0					1	mg/l	kg/d	< 0.5	<523.1	1
n. Sulfite	x		< 2	<0.0					1	mg/l	kg/d	< 2	<2092	1
o. Surfactants	x		< 0.025	<0.0					1	mg/l	kg/d	< 0.025	<26.15	1
p. Aluminum	x		< 0.005	<0.0					1	mg/l	kg/d	0.005	5.231	1
q. Barium	x		0.0277	0.0001					1	mg/l	kg/d	0.0256	26.78	1
r. Boron	x		< 0.09	<0.0					1	mg/l	kg/d	< 0.09	<94.16	1
s. Cobalt	x		< 0.001	<0.0					1	mg/l	kg/d	< 0.001	<1.046	1
t. Iron	x		0.047	0.0002					1	mg/l	kg/d	0.102	106.7	1
u. Magnesium	x		8.55	0.05					1	mg/l	kg/d	8.57	8966	1
v. Molybdenum	x		0.0013	0.00001					1	mg/l	kg/d	0.0012	1.255	1
w. Manganese	x		0.006	0.00003					1	mg/l	kg/d	0.029	30.34	1
x. Tin	x		< 0.001	<0.000					1	mg/l	kg/d	< 0.001	<1.046	1
y. Titanium	x		0.0013	0.000					1	mg/l	kg/d	0.0017	1.778	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 001

TABLE C

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony	x			< 0.2	<0.000					1	ug/l	kg/d	<0.2	<0.209	1
2M. Arsenic	x			< 1	<0.000					1	ug/l	kg/d	< 1	<1.046	1
3M. Beryllium	x			< 0.2	<0.000					1	ug/l	kg/d	<0.2	<0.209	1
4M. Cadmium	x			< 0.2	<0.000					1	ug/l	kg/d	<0.2	<0.209	1
5M. Chromium	x			< 1	<0.000					1	ug/l	kg/d	< 1	<1.046	1
6M. Copper	x			5.9	0.000					1	ug/l	kg/d	2.2	2.302	1
7M. Lead	x			0.30	0.000					1	ug/l	kg/d	0.5	0.523	1
8M. Mercury	x			< 0.1	<0.000					1	ug/l	kg/d	<0.1	<0.105	1
9M. Nickel	x			< 2	<0.000					1	ug/l	kg/d	< 2	<2.092	1
10M. Selenium	x			< 1	<0.000					1	ug/l	kg/d	< 1	<1.046	1
11M. Silver	x			1.1	0.000					1	ug/l	kg/d	1.1	1.151	1
12M. Thallium	x			< 0.2	<0.000					1	ug/l	kg/d	<0.2	<0.209	1
13M. Zinc	x			28.7	0.000					1	ug/l	kg/d	4.8	5.022	1
14M. Cyanide	x			< 4	<0.000					1	ug/l	kg/d	< 4	<4.185	1
15M. Phenols*	x			< 1	<0.000					1	ug/l	kg/d	< 1	<1.046	1
DIOXIN															
2,3,7,8-tetrachlorodibenzo-P-dioxin			x	Describe Results:											

* The intake and outfall values reported for total phenols were those reported in the 2004 VPDES permit renewal application due to this parameter not being analyzed by the lab.

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OUTLET NO.
001

V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- VOLATILE COMPOUNDS															
1V. Acrolein	x			< 4.36	<0.000					1	ug/l	kg/d	< 4.36	<4.561	1
2V. Acrylonitrile	x			< 4.24	<0.000					1	ug/l	kg/d	< 4.24	<4.436	1
3V. Benzene	x			< 0.13	<0.000					1	ug/l	kg/d	< 0.13	<0.136	1
4V. Bromoform	x			< 0.4	<0.000					1	ug/l	kg/d	< 0.4	<0.418	1
5V. Carbon Tetrachloride	x			< 0.25	<0.000					1	ug/l	kg/d	< 0.25	<0.262	1
6V. Chlorobenzene	x			< 0.18	<0.000					1	ug/l	kg/d	< 0.18	<0.188	1
7V. Dibromochloromethane	x			< 0.42	<0.000					1	ug/l	kg/d	< 0.42	<0.439	1
8V. Chloroethane	x			< 0.94	<0.000					1	ug/l	kg/d	< 0.94	<0.983	1
9V. 2-Chlorophenol	x			< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
10V. Chloroform	x			< 0.25	<0.000					1	ug/l	kg/d	< 0.25	<0.262	1
11V. Dichlorobromomethane	x			<0.16	<0.000					1	ug/l	kg/d	<0.16	<0.167	1
12V. 1,1-Dichloroethane	x			< 0.38	<0.000					1	ug/l	kg/d	< 0.38	<0.398	1
13V. 1,2-Dichloroethane	x			< 0.43	<0.000					1	ug/l	kg/d	< 0.43	<0.450	1
14V. 1,1-Dichloroethylene	x			< 0.33	<0.000					1	ug/l	kg/d	< 0.33	<0.345	1
15V. 1,2-Dichloropropane	x			< 0.46	<0.000					1	ug/l	kg/d	< 0.46	<0.481	1
16V. 1,3-Dichloropropylene	x			< 0.22	<0.000					1	ug/l	kg/d	< 0.22	<0.230	1
17V. Ethylbenzene	x			< 0.18	<0.000					1	ug/l	kg/d	< 0.18	<0.188	1
18V. Bromomethane	x			< 0.5	<0.000					1	ug/l	kg/d	< 0.5	<0.523	1
19V. Chloromethane	x			< 0.33	<0.000					1	ug/l	kg/d	< 0.33	<0.345	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- VOLATILE COMPOUNDS (continued)															
20V. Methylene Chloride	x			< 0.54	<0.000					1	ug/l	kg/d	< 0.54	<0.565	1
21V. 1,1,2,2-Tetrachloroethane	x			< 0.38	<0.000					1	ug/l	kg/d	< 0.38	<0.398	1
22V. Tetrachloroethylene	x			< 0.20	<0.000					1	ug/l	kg/d	< 0.20	<0.209	1
23V. Toluene	x			< 0.17	<0.000					1	ug/l	kg/d	< .017	<0.018	1
24V. 1,2- Trans Dichloroethylene	x			< 0.39	<0.000					1	ug/l	kg/d	< 0.39	<0.408	1
25V. 1,1,1-trichloroethane	x			< 0.35	<0.000					1	ug/l	kg/d	< 0.35	<0.366	1
26V. 1,1,2-trichloroethane	x			< 0.49	<0.000					1	ug/l	kg/d	< 0.49	<0.513	1
27V. Trichloroethylene	x			< 0.30	<0.000					1	ug/l	kg/d	< 0.30	<0.314	1
28V. Vinyl Chloride	x			< 0.22	<0.000					1	ug/l	kg/d	< 0.22	<0.230	1
GC/MS FRACTION -- ACID COMPOUNDS															
1A. 2-Chlorophenol	x			< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
2A. 2,4-Dichlorophenol	x			< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
3A. 2,4-Dimethylphenol	x			< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
4A. 4,6-Dinitro-2-methylphenol	x			< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
5A. 2,4-Dinitrophenol	x			< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
6A. 2-Nitrophenol	x			< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
7A. 4-Nitrophenol	x			< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
8A. 4-Chloro-3-methylphenol	x			< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
9A. Pentachlorophenol	x			< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
10A. Phenol	x			< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
11A. 2,4,6-Trichlorophenol	x			< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Testing Required	b. Believed Present	c. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	(2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
2B. Acenaphtylene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
3B. Anthracene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
4B. Benzidine			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
5B. Benzo(a)Anthracene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
6B. Benzo(a)Pyrene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
7B. Benzo(b)fluoranthene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
8B. Benzo(ghi)perylene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
9B. Benzo(k)fluoranthene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
10B. Bis(2-chloroethoxy)methane			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
11B. Bis(2-chloroethyl)ether			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
12B. Bis(2-chloroisopropyl)ether			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
13B. Bis(2-ethylhexyl)phthalate			x	< 6.96	<0.000					1	ug/l	kg/d	< 6.87	<7.187	1
14B. 4-bromophenyl Phenyl Ether			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
15B. Butyl Benzyl Phthalate			x	< 5.8	<0.000					1	ug/l	kg/d	< 5.73	<5.995	1
16B. 2-Chloronaphthalene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
17B. 4-chlorophenyl Phenyl Ether			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
18B. Chrysene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
19B. Dibenzo(a,h)anthracene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
20B. 1,2-dichlorobenzene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
21B. 1,3-dichlorobenzene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1

Note: Testing for base/neutral compounds is not required for steam electric power plants.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Testing Required	b. Believed Present	c. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	(2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-dichlorobenzene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
23B. 3,3-dichlorobenzidine			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
24B. diethylphthalate			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
25B. Dimethylphthalate			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
26B. di-N-Butylphthalate			x	< 3.48	<0.000					1	ug/l	kg/d	< 3.44	<3.599	1
27B. 2,4-Dinitrotoluene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
28B. 2,6-dinitrotoluene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
29B. di-N-Octyl Phthalate			x	< 5.8	<0.000					1	ug/l	kg/d	< 5.73	<5.995	1
30B. 1,2-Diphenylhydrazine			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
31B. Fluoranthene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
32B. Fluorene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
33B. Hexachlorobenzene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
34B. Hexachlorobutadiene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
35B. Hexachlorocyclopentadiene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
36B. Hexachloroethane			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
37B. Indeno(1,2,3-cd)Pyrene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
38B. Isophorone			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
39B. Naphthalene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
40B. Nitrobenzene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
41B. N-Nitrosodimethylamine			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
42B. N-Nitrosodi-N-Propylamine			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1

Note: Testing for base/neutral compounds is not required for steam electric power plants.

EPA I.D. NUMBER
VAD001894542

V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO.: 001

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
44B. Phenanthrene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
45B. Pyrene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
46B. 1,2,4-trichlorobenzene			x	< 2.32	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
GC/MS FRACTION -- PESTICIDES															
1P. Aldrin			x												
2P. a-BHC			x												
3P. b-BHC			x												
4P. g-BHC			x												
5P. d-BHC			x												
6P. Chlordane			x												
7P. 4,4-DDT			x												
8P. 4,4-DDE			x												
9P. 4,4-DDD			x												
10P. Dieldrin			x												
11P. a-Endosulfan			x												
12P. b-Endosulfan			x												
13P. Endosulfan sulfate			x												
14P. Endrin			x												
15P. Endrin Aldehyde			x												
16P. Heptachlor			x												

Note: Testing for base/neutral compounds is not required for steam electric power plants.
Testing for pesticides is not required for steam electric power plants.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 001

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- PESTICIDES (continued)															
17P. Heptachlor Epoxide			X												
18P. PCB-1242			X												
19P. PCB-1254			X												
20P. PCB-1221			X												
21P. PCB-1232			X												
22P. PCB-1248			X												
23P. PCB-1260			X												
24P. PCB-1016			X												
25P. Toxaphene			X												

Note: Testing for pesticides is not required for steam electric power plants.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 002

TABLE A

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	(2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	3. UNITS (specify if blank) a. Concentration	b. Mass	4. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	b. No. of Analyses
a. BOD	< 2.0	<230.9					1	mg/l	kg/d	11	11508	1
b. COD	5	577.21					1	mg/l	kg/d	6	6277	1
c. TOC	2.41	278.22					1	mg/l	kg/d	2.4	2511	1
d. TSS	<1.0	<115.4					1	mg/l	kg/d	3	3139	1
e. Ammonia *(as N)*	< 0.03	<3.5					1	mg/l	kg/d	< 0.03	<31.39	1
f. Flow	VALUE:	44.3	VALUE:	31.8	VALUE:	28.3	54	MGD		VALUE:	276.4	1
g. Temperature *(winter)*	VALUE:		VALUE:		VALUE:			° C		VALUE:		
h. Temperature *(summer)*	VALUE:	15.6	VALUE:		VALUE:		1	° C		VALUE:	11.6	1
i. pH	Minimum 8.06	Maximum 8.06	Minimum	Maximum			1	Standard Units				

TABLE B

1. POLLUTANT	2. Mark 'X' a. Believed Present	b. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	(2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses
a. Bromide	x		< 0.06	<6.93					1	mg/l	kg/d	< 0.06	<62.77	1
b. Chloride	x		6.51	751.5					1	mg/l	kg/d	16.2	16948	1
c. Chlorine, Tot. Residual	x		<0.10	<11.54					1	mg/l	kg/d	<0.10	<104.6	1
d. Color	x		VALUE:	<5.0	VALUE:		VALUE:		1	Color Units		VALUE:	<5.0	1
e. Fecal Coliform	x		VALUE:	5	VALUE:		VALUE:		1	colonies/100ml		VALUE:	38	1
f. Fluoride	x		0.09	10.39					1	mg/l	kg/d	0.06	62.77	1
g. Nitrate/Nitrite	x		1.32	152.4					1	mg/l	kg/d	0.87	910.2	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 002

TABLE B (CONTINUED)

1. POLLUTANT	2. Mark 'X'		3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Believed Present	b. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses	a. Concentration	b. Mass	a. LONG TERM AVRG. VALUE		d. No. of Analyses
			(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass				(1) Concentration	(2) Mass	
h. TON	x		<0.05	<5.8					1	mg/l	kg/d	<0.05	<52.31	1
i. O&G	x		<2	<335.4					1	mg/l	kg/d	<2	<2092	1
j. Phosphorus	x		0.07	8.08					1	mg/l	kg/d	0.14	146.5	1
k. Radioactivity														
(1) Total Alpha	x		VALUE: 1.2±1.6		VALUE:		VALUE:		1	pCi/liter		VALUE: 0.91±1.68		1
(2) Total Beta	x		VALUE: 2.5±2.5		VALUE:		VALUE:		1	pCi/liter		VALUE: 6.7±2.7		1
(3) Total Radium	x		VALUE: 0.28±0.58		VALUE:		VALUE:		1	pCi/liter		VALUE: 0.15±0.44		1
(4) Radium 226	x		VALUE: 0.18±0.31		VALUE:		VALUE:		1	pCi/liter		VALUE: 0.15±0.28		1
l. Sulfate	x		16.2	1870					1	mg/l	kg/d	17.7	18517	1
m. Sulfide	x		< 0.5	<57.72					1	mg/l	kg/d	< 0.5	<523.1	1
n. Sulfite	x		< 2	<230.9					1	mg/l	kg/d	< 2	<2092	1
o. Surfactants	x		< 0.025	<2.886					1	mg/l	kg/d	< 0.025	<26.15	1
p. Aluminum	x		< 0.005	<0.577					1	mg/l	kg/d	0.005	5.231	1
q. Barium	x		0.0235	2.713					1	mg/l	kg/d	0.0256	26.78	1
r. Boron	x		< 0.09	<10.39					1	mg/l	kg/d	< 0.09	<94.16	1
s. Cobalt	x		< 0.001	<0.115					1	mg/l	kg/d	< 0.001	<1.046	1
t. Iron	x		0.049	5.657					1	mg/l	kg/d	0.102	106.7	1
u. Magnesium	x		7.62	879.7					1	mg/l	kg/d	8.57	8966	1
v. Molybdenum	x		< 0.001	<0.115					1	mg/l	kg/d	0.0012	1.255	1
w. Manganese	x		0.008	0.924					1	mg/l	kg/d	0.029	30.34	1
x. Tin	x		< 0.001	<0.115					1	mg/l	kg/d	< 0.001	<1.046	1
y. Titanium	x		0.0013	0.150					1	mg/l	kg/d	0.0017	1.778	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 002

TABLE C

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony	x			< 0.2	<0.023					1	ug/l	kg/d	<0.2	<0.209	1
2M. Arsenic	x			< 1	<0.115					1	ug/l	kg/d	< 1	<1.046	1
3M. Beryllium	x			< 0.2	<0.023					1	ug/l	kg/d	<0.2	<0.209	1
4M. Cadmium	x			< 0.2	<0.023					1	ug/l	kg/d	<0.2	<0.209	1
5M. Chromium	x			< 1	<0.115					1	ug/l	kg/d	< 1	<1.046	1
6M. Copper	x			2	0.185					1	ug/l	kg/d	2.2	2.302	1
7M. Lead	x			0.20	0.02					1	ug/l	kg/d	0.5	0.523	1
8M. Mercury	x			< 0.1	<0.012					1	ug/l	kg/d	<0.1	<0.105	1
9M. Nickel	x			< 2	<0.231					1	ug/l	kg/d	< 2	<2.092	1
10M. Selenium	x			< 1	<0.115					1	ug/l	kg/d	< 1	<1.046	1
11M. Silver	x			1.1	0.127					1	ug/l	kg/d	1.1	1.151	1
12M. Thallium	x			< 0.2	<0.023					1	ug/l	kg/d	<0.2	<0.209	1
13M. Zinc	x			< 3	<0.346					1	ug/l	kg/d	4.8	5.022	1
14M. Cyanide	x			< 4	<0.462					1	ug/l	kg/d	< 4	<4.185	1
15M. Phenols*	x			< 1	<0.115					1	ug/l	kg/d	< 1	<1.046	1
DIOXIN															
2,3,7,8-tetrachlorodibenzo-P-dioxin			x	Describe Results:											

* The intake and outfall values reported for total phenols were those reported in the 2004 VPDES permit renewal application due to this parameter not being analyzed by the lab.

EPA I.D. NUMBER
VAD001894542

OUTLET NO.
002

V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- VOLATILE COMPOUNDS															
1V. Acrolein	x			< 4.36	<0.503					1	ug/l	kg/d	< 4.36	<4.561	1
2V. Acrylonitrile	x			< 4.24	<0.489					1	ug/l	kg/d	< 4.24	<4.436	1
3V. Benzene	x			< 0.13	<0.015					1	ug/l	kg/d	< 0.13	<0.136	1
4V. Bromoform	x			< 0.40	<0.046					1	ug/l	kg/d	< 0.4	<0.418	1
5V. Carbon Tetrachloride	x			< 0.25	<0.029					1	ug/l	kg/d	< 0.25	<0.262	1
6V. Chlorobenzene	x			< 0.18	<0.021					1	ug/l	kg/d	< 0.18	<0.188	1
7V. Dibromochloromethane	x			< 0.42	<0.048					1	ug/l	kg/d	< 0.42	<0.439	1
8V. Chloroethane	x			< 0.94	<0.109					1	ug/l	kg/d	< 0.94	<0.983	1
9V. 2-Chlorophenol	x			< 2.09	<0.241					1	ug/l	kg/d	< 2.29	<2.396	1
10V. Chloroform	x			< 0.25	<0.029					1	ug/l	kg/d	< 0.25	<0.262	1
11V. Dichlorobromomethane	x			<0.16	<0.018					1	ug/l	kg/d	<0.16	<0.167	1
12V. 1,1-Dichloroethane	x			< 0.38	<0.044					1	ug/l	kg/d	< 0.38	<0.398	1
13V. 1,2-Dichloroethane	x			< 0.43	<0.050					1	ug/l	kg/d	< 0.43	<0.450	1
14V. 1,1-Dichloroethylene	x			< 0.33	<0.038					1	ug/l	kg/d	< 0.33	<0.345	1
15V. 1,2-Dichloropropane	x			< 0.46	<0.053					1	ug/l	kg/d	< 0.46	<0.481	1
16V. 1,3-Dichloropropylene	x			<0.22	<0.025					1	ug/l	kg/d	< 0.22	<0.230	1
17V. Ethylbenzene	x			< 0.18	<0.021					1	ug/l	kg/d	< 0.18	<0.188	1
18V. Bromomethane	x			< 0.5	<0.058					1	ug/l	kg/d	< 0.5	<0.523	1
19V. Chloromethane	x			< 0.33	<0.038					1	ug/l	kg/d	< 0.33	<0.345	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 002

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- VOLATILE COMPOUNDS (continued)															
20V. Methylene Chloride	x			< 0.54	<0.062					1	ug/l	kg/d	< 0.54	<0.565	1
21V. 1,1,2,2-Tetrachloroethane	x			< 0.38	<0.044					1	ug/l	kg/d	< 0.38	<0.398	1
22V. Tetrachloroethylene	x			< 0.20	<0.023					1	ug/l	kg/d	< 0.20	<0.209	1
23V. Toluene	x			< 0.17	<0.020					1	ug/l	kg/d	< .017	<0.018	1
24V. 1,2- Trans Dichloroethylene	x			< 0.22	<0.025					1	ug/l	kg/d	< 0.39	<0.408	1
25V. 1,1,1-trichloroethane	x			< 0.35	<0.040					1	ug/l	kg/d	< 0.35	<0.366	1
26V. 1,1,2-trichloroethane	x			< 0.49	<0.057					1	ug/l	kg/d	< 0.49	<0.513	1
27V. Trichloroethylene	x			<0.30	<0.035					1	ug/l	kg/d	< 0.30	<0.314	1
28V. Vinyl Chloride	x			< 0.22	<0.025					1	ug/l	kg/d	< 0.22	<0.230	1
GC/MS FRACTION -- ACID COMPOUNDS															
1A. 2-Chlorophenol	x			< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
2A. 2,4-Dichlorophenol	x			< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
3A. 2,4-Dimethylphenol	x			< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
4A. 4,6-Dinitro-2-methylphenol	x			< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
5A. 2,4-Dinitrophenol	x			< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
6A. 2-Nitrophenol	x			< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
7A. 4-Nitrophenol	x			< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
8A. 4-Chloro-3-methylphenol	x			< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
9A. Pentachlorophenol	x			< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
10A. Phenol	x			< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
11A. 2,4,6-Trichlorophenol	x			< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 002

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Testing Required	b. Believed Present	c. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	(2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
2B. Acenaphtylene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
3B. Anthracene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
4B. Benzidine			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
5B. Benzo(a)Anthracene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
6B. Benzo(a)Pyrene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
7B. Benzo(b)fluoranthene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
8B. Benzo(ghi)perylene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
9B. Benzo(k)fluoranthene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
10B. Bis(2-chloroethoxy)methane			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
11B. Bis(2-chloroethyl)ether			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
12B. Bis(2-chloroisopropyl)ether			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
13B. Bis(2-ethylhexyl)phthalate			x	< 7.05	<0.814					1	ug/l	kg/d	< 6.87	<7.187	1
14B. 4-bromophenyl Phenyl Ether			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
15B. Butyl Benzyl Phthalate			x	< 5.88	<0.679					1	ug/l	kg/d	< 5.73	<5.995	1
16B. 2-Chloronaphthalene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
17B. 4-chlorophenyl Phenyl Ether			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
18B. Chrysene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
19B. Dibenzo(a,h)anthracene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
20B. 1,2-dichlorobenzene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
21B. 1,3-dichlorobenzene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1

Note: Testing for base/neutral compounds is not required for steam electric power plants.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Testing Required	b. Believed Present	c. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration		b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-dichlorobenzene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
23B. 3,3-dichlorobenzidine			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
24B. diethylphthalate			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
25B. Dimethylphthalate			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
26B. di-N-Butylphthalate			x	< 3.53	<0.408					1	ug/l	kg/d	< 3.44	<3.599	1
27B. 2,4-Dinitrotoluene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
28B. 2,6-dinitrotoluene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
29B. di-N-Octyl Phthalate			x	< 5.88	<0.679					1	ug/l	kg/d	< 5.73	<5.995	1
30B. 1,2-Diphenylhydrazine			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
31B. Fluoranthene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
32B. Fluorene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
33B. Hexachlorobenzene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
34B. Hexachlorobutadiene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
35B. Hexachlorocyclopentadiene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
36B. Hexachloroethane			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
37B. Indeno(1,2,3-cd)Pyrene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
38B. Isophorone			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
39B. Naphthalene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
40B. Nitrobenzene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
41B. N-Nitrosodimethylamine			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
42B. N-Nitrosodi-N-Propylamine			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1

Note: Testing for base/neutral compounds is not required for steam electric power plants.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Testing Required	b. Believed Present	c. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	(2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
44B. Phenanthrene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
45B. Pyrene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
46B. 1,2,4-trichlorobenzene			x	< 2.35	<0.271					1	ug/l	kg/d	< 2.29	<2.396	1
GC/MS FRACTION -- PESTICIDES															
1P. Aldrin			x												
2P. a-BHC			x												
3P. b-BHC			x												
4P. g-BHC			x												
5P. d-BHC			x												
6P. Chlordane			x												
7P. 4,4-DDT			x												
8P. 4,4-DDE			x												
9P. 4,4-DDD			x												
10P. Dieldrin			x												
11P. a-Endosulfan			x												
12P. b-Endosulfan			x												
13P. Endosulfan sulfate			x												
14P. Endrin			x												
15P. Endrin Aldehyde			x												
16P. Heptachlor			x												

Note: Testing for base/neutral compounds is not required for steam electric power plants.
Testing for pesticides is not required for steam electric power plants.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

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TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- PESTICIDES (continued)															
17P. Heptachlor Epoxide			x												
18P. PCB-1242			x												
19P. PCB-1254			x												
20P. PCB-1221			x												
21P. PCB-1232			x												
22P. PCB-1248			x												
23P. PCB-1260			x												
24P. PCB-1016			x												
25P. Toxaphene			x												

Note: Testing for pesticides is not required for steam electric power plants.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

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TABLE A

1. POLLUTANT	2. EFFLUENT								3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses				a. LONG TERM AVRG. VALUE		b. No. of Analyses
	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass			a. Concentration	b. Mass	(1) Concentration	(2) Mass	
a. BOD	< 2.0	<938.7					1		mg/l	kg/d	11	11508	1
b. COD	4	1877.36					1		mg/l	kg/d	6	6277	1
c. TOC	2.44	1145.19					1		mg/l	kg/d	2.4	2511	1
d. TSS	<1	<469.3					1		mg/l	kg/d	3	3139	1
e. Ammonia *(as N)*	< 0.03	<14.1					1		mg/l	kg/d	< 0.03	<31.39	1
f. Flow	VALUE:	124.0	VALUE:	124.0	VALUE:	99.99	54		MGD		VALUE:	276.4	1
g. Temperature *(winter)*	VALUE:		VALUE:		VALUE:				° C		VALUE:		
h. Temperature *(summer)*	VALUE:	15.8	VALUE:		VALUE:		1		° C		VALUE:	11.6	1
i. pH	Minimum 7.82	Maximum 7.82	Minimum	Maximum			1		Standard Units				

TABLE B

1. POLLUTANT	2. Mark 'X'		3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
			a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
	a. Believed Present	b. Believed Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
a. Bromide	x		< 0.06	<28.16					1	mg/l	kg/d	< 0.06	<62.77	1
b. Chloride	x		6.39	2999					1	mg/l	kg/d	16.2	16948	1
c. Chlorine, Tot. Residual	x		<0.10	<46.93					1	mg/l	kg/d	<0.10	<104.6	1
d. Color	x		VALUE:	<5.0	VALUE:		VALUE:		1	Color Units		VALUE:	<5.0	1
e. Fecal Coliform	x		VALUE:	5	VALUE:		VALUE:		1	colonies/100ml		VALUE:	38	1
f. Fluoride	x		0.08	37.55					1	mg/l	kg/d	0.06	62.77	1
g. Nitrate/Nitrite	x		1.07	502.2					1	mg/l	kg/d	0.87	910.2	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 003

TABLE B (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Believed Present	2. Mark 'X' b. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	a. MAXIMUM DAILY VALUE (2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	b. MAXIMUM 30 DAY VALUE (2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	c. LONG TERM AVRG. VALUE (2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	4. UNITS b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	a. LONG TERM AVRG. VALUE (2) Mass	d. No. of Analyses
h. TON	x		<0.05	<23.5					1	mg/l	kg/d	<0.05	<52.31	1
i. O&G	x		<2	<938.7					1	mg/l	kg/d	<2	<2092	1
j. Phosphorus	x		0.07	32.85					1	mg/l	kg/d	0.14	146.5	1
k. Radioactivity														
(1) Total Alpha	x		VALUE: 0.06±1.42		VALUE:		VALUE:		1	pCi/liter		VALUE: 0.91±1.68		1
(2) Total Beta	x		VALUE: -0.16±2.49		VALUE:		VALUE:		1	pCi/liter		VALUE: 6.7±2.7		1
(3) Total Radium	x		VALUE: 0.59±0.52		VALUE:		VALUE:		1	pCi/liter		VALUE: 0.15±0.44		1
(4) Radium 226	x		VALUE: 0.01±0.21		VALUE:		VALUE:		1	pCi/liter		VALUE: 0.15±0.28		1
l. Sulfate	x		16.3	7650					1	mg/l	kg/d	17.7	18517	1
m. Sulfide	x		< 0.5	<234.7					1	mg/l	kg/d	< 0.5	<523.1	1
n. Sulfite	x		< 2	<938.7					1	mg/l	kg/d	< 2	<2092	1
o. Surfactants	x		< 0.025	<11.73					1	mg/l	kg/d	< 0.025	<26.15	1
p. Aluminum	x		< 0.005	<2.347					1	mg/l	kg/d	0.005	5.231	1
q. Barium	x		0.0237	11.12					1	mg/l	kg/d	0.0256	26.78	1
r. Boron	x		< 0.09	<42.24					1	mg/l	kg/d	< 0.09	<94.16	1
s. Cobalt	x		< 0.001	<0.469					1	mg/l	kg/d	< 0.001	<1.046	1
t. Iron	x		0.04	18.77					1	mg/l	kg/d	0.102	106.7	1
u. Magnesium	x		78.1	36655					1	mg/l	kg/d	8.57	8966	1
v. Molybdenum	x		0.0017	0.798					1	mg/l	kg/d	0.0012	1.255	1
w. Manganese	x		0.006	2.816					1	mg/l	kg/d	0.029	30.34	1
x. Tin	x		< 0.001	<0.469					1	mg/l	kg/d	< 0.001	<1.046	1
y. Titanium	x		0.0012	0.563					1	mg/l	kg/d	0.0017	1.778	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

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TABLE C

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
				a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
	a. Testing Required	b. Believed Present	c. Believed Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony	x			0.3	0.14					1	ug/l	kg/d	<0.2	<0.209	1
2M. Arsenic	x			< 1	<0.469					1	ug/l	kg/d	< 1	<1.046	1
3M. Beryllium	x			< 0.2	<0.094					1	ug/l	kg/d	<0.2	<0.209	1
4M. Cadmium	x			< 0.2	<0.094					1	ug/l	kg/d	<0.2	<0.209	1
5M. Chromium	x			< 1	<0.469					1	ug/l	kg/d	< 1	<1.046	1
6M. Copper	x			5.6	2.628					1	ug/l	kg/d	2.2	2.302	1
7M. Lead	x			0.4	0.19					1	ug/l	kg/d	0.5	0.523	1
8M. Mercury	x			< 0.1	<0.047					1	ug/l	kg/d	<0.1	<0.105	1
9M. Nickel	x			< 2	<0.939					1	ug/l	kg/d	< 2	<2.092	1
10M. Selenium	x			< 1	<0.469					1	ug/l	kg/d	< 1	<1.046	1
11M. Silver	x			< 1	<0.469					1	ug/l	kg/d	1.1	1.151	1
12M. Thallium	x			< 0.2	<0.094					1	ug/l	kg/d	<0.2	<0.209	1
13M. Zinc	x			23.4	10.98					1	ug/l	kg/d	4.8	5.022	1
14M. Cyanide	x			< 4	<1.877					1	ug/l	kg/d	< 4	<4.185	1
15M. Phenols*	x			< 1	<0.469					1	ug/l	kg/d	< 1	<1.046	1
DIOXIN															
2,3,7,8-tetrachlorodibenzo-P-dioxin			x	Describe Results:											

* The intake and outfall values reported for total phenols were those reported in the 2004 VPDES permit renewal application due to this parameter not being analyzed by the lab.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Testing Required	b. Believed Present	c. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	(2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses
GC/MS FRACTION -- VOLATILE COMPOUNDS															
1V. Acrolein	x			< 4.36	<2.046					1	ug/l	kg/d	< 4.36	<4.561	1
2V. Acrylonitrile	x			< 4.24	<1.990					1	ug/l	kg/d	< 4.24	<4.436	1
3V. Benzene	x			< 0.13	<0.061					1	ug/l	kg/d	< 0.13	<0.136	1
4V. Bromoform	x			< 0.4	<0.188					1	ug/l	kg/d	< 0.4	<0.418	1
5V. Carbon Tetrachloride	x			< 0.25	<0.117					1	ug/l	kg/d	< 0.25	<0.262	1
6V. Chlorobenzene	x			< 0.18	<0.084					1	ug/l	kg/d	< 0.18	<0.188	1
7V. Dibromochloromethane	x			< 0.42	<0.197					1	ug/l	kg/d	< 0.42	<0.439	1
8V. Chloroethane	x			< 0.94	<0.441					1	ug/l	kg/d	< 0.94	<0.983	1
9V. 2-Chlorophenol	x			< 5.0	<2.347					1	ug/l	kg/d	< 2.29	<2.396	1
10V. Chloroform	x			< 0.25	<0.117					1	ug/l	kg/d	< 0.25	<0.262	1
11V. Dichlorobromomethane	x			< 0.16	<0.075					1	ug/l	kg/d	<0.16	<0.167	1
12V. 1,1-Dichloroethane	x			< 0.38	<0.178					1	ug/l	kg/d	< 0.38	<0.398	1
13V. 1,2-Dichloroethane	x			< 0.43	<0.202					1	ug/l	kg/d	< 0.43	<0.450	1
14V. 1,1-Dichloroethylene	x			< 0.23	<0.108					1	ug/l	kg/d	< 0.33	<0.345	1
15V. 1,2-Dichloropropane	x			< 0.46	<0.216					1	ug/l	kg/d	< 0.46	<0.481	1
16V. 1,3-Dichloropropylene	x			<0.22	<0.103					1	ug/l	kg/d	< 0.22	<0.230	1
17V. Ethylbenzene	x			< 0.18	<0.084					1	ug/l	kg/d	< 0.18	<0.188	1
18V. Bromomethane	x			< 0.5	<0.235					1	ug/l	kg/d	< 0.5	<0.523	1
19V. Chloromethane	x			< 0.33	<0.155					1	ug/l	kg/d	< 0.33	<0.345	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- VOLATILE COMPOUNDS (continued)															
20V. Methylene Chloride	x			< 0.54	<0.253					1	ug/l	kg/d	< 0.54	<0.565	1
21V. 1,1,2,2-Tetrachloroethane	x			< 0.38	<0.178					1	ug/l	kg/d	< 0.38	<0.398	1
22V. Tetrachloroethylene	x			< 0.20	<0.094					1	ug/l	kg/d	< 0.20	<0.209	1
23V. Toluene	x			< 0.17	<0.080					1	ug/l	kg/d	< .017	<0.018	1
24V. 1,2- Trans Dichloroethylene	x			< 0.39	<0.183					1	ug/l	kg/d	< 0.39	<0.408	1
25V. 1,1,1-trichloroethane	x			< 0.35	<0.164					1	ug/l	kg/d	< 0.35	<0.366	1
26V. 1,1,2-trichloroethane	x			< 0.49	<0.230					1	ug/l	kg/d	< 0.49	<0.513	1
27V. Trichloroethylene	x			<0.30	<0.141					1	ug/l	kg/d	< 0.30	<0.314	1
28V. Vinyl Chloride	x			< 0.22	<0.103					1	ug/l	kg/d	< 0.22	<0.230	1
GC/MS FRACTION -- ACID COMPOUNDS															
1A. 2-Chlorophenol	x			< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
2A. 2,4-Dichlorophenol	x			< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
3A. 2,4-Dimethylphenol	x			< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
4A. 4,6-Dinitro-2-methylphenol	x			< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
5A. 2,4-Dinitrophenol	x			< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
6A. 2-Nitrophenol	x			< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
7A. 4-Nitrophenol	x			< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
8A. 4-Chloro-3-methylphenol	x			< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
9A. Pentachlorophenol	x			< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
10A. Phenol	x			< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
11A. 2,4,6-Trichlorophenol	x			< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 003

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Testing Required	b. Believed Present	c. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	(2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
2B. Acenaphtylene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
3B. Anthracene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
4B. Benzidine			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
5B. Benzo(a)Anthracene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
6B. Benzo(a)Pyrene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
7B. Benzo(b)fluoranthene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
8B. Benzo(ghi)perylene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
9B. Benzo(k)fluoranthene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
10B. Bis(2-chloroethoxy)methane			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
11B. Bis(2-chloroethyl)ether			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
12B. Bis(2-chloroisopropyl)ether			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
13B. Bis(2-ethylhexyl)phthalate			x	< 7.41	<3.478					1	ug/l	kg/d	< 6.87	<7.187	1
14B. 4-bromophenyl Phenyl Ether			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
15B. Butyl Benzyl Phthalate			x	< 6.18	<2.901					1	ug/l	kg/d	< 5.73	<5.995	1
16B. 2-Chloronaphthalene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
17B. 4-chlorophenyl Phenyl Ether			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
18B. Chrysene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
19B. Dibenzo(a,h)anthracene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
20B. 1,2-dichlorobenzene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
21B. 1,3-dichlorobenzene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1

Note: Testing for base/neutral compounds is not required for steam electric power plants.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 003

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Testing Required	b. Believed Present	c. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	(2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-dichlorobenzene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
23B. 3,3-dichlorobenzidine			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
24B. diethylphthalate			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
25B. Dimethylphthalate			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
26B. di-N-Butylphthalate			x	< 3.71	<1.741					1	ug/l	kg/d	< 3.44	<3.599	1
27B. 2,4-Dinitrotoluene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
28B. 2,6-dinitrotoluene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
29B. di-N-Octyl Phthalate			x	< 6.18	<2.901					1	ug/l	kg/d	< 5.73	<5.995	1
30B. 1,2-Diphenylhydrazine			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
31B. Fluoranthene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
32B. Fluorene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
33B. Hexachlorobenzene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
34B. Hexachlorobutadiene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
35B. Hexachlorocyclopentadiene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
36B. Hexachloroethane			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
37B. Indeno(1,2,3-cd)Pyrene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
38B. Isophorone			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
39B. Naphthalene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
40B. Nitrobenzene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
41B. N-Nitrosodimethylamine			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
42B. N-Nitrosodi-N-Propylamine			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1

Note: Testing for base/neutral compounds is not required for steam electric power plants.

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OUTLET NO.
003

V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
44B. Phenanthrene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
45B. Pyrene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
46B. 1,2,4-trichlorobenzene			x	< 2.47	<1.159					1	ug/l	kg/d	< 2.29	<2.396	1
GC/MS FRACTION -- PESTICIDES															
1P. Aldrin			x												
2P. a-BHC			x												
3P. b-BHC			x												
4P. g-BHC			x												
5P. d-BHC			x												
6P. Chlordane			x												
7P. 4,4-DDT			x												
8P. 4,4-DDE			x												
9P. 4,4-DDD			x												
10P. Dieldrin			x												
11P. a-Endosulfan			x												
12P. b-Endosulfan			x												
13P. Endosulfan sulfate			x												
14P. Endrin			x												
15P. Endrin Aldehyde			x												
16P. Heptachlor			x												

Note: Testing for base/neutral compounds is not required for steam electric power plants.
Testing for pesticides is not required for steam electric power plants.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 003

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- PESTICIDES (continued)															
17P. Heptachlor Epoxide			x												
18P. PCB-1242			x												
19P. PCB-1254			x												
20P. PCB-1221			x												
21P. PCB-1232			x												
22P. PCB-1248			x												
23P. PCB-1260			x												
24P. PCB-1016			x												
25P. Toxaphene			x												

Note: Testing for pesticides is not required for steam electric power plants.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 004

TABLE A

1. POLLUTANT	2. EFFLUENT								3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses				a. LONG TERM AVRG. VALUE		b. No. of Analyses
	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass			a. Concentration	b. Mass	(1) Concentration	(2) Mass	
a. BOD	< 2.0	<14.4					1		mg/l	kg/d	11	11508	1
b. COD	6	43.33					1		mg/l	kg/d	6	6277	1
c. TOC	1.73	12.49					1		mg/l	kg/d	2.4	2511	1
d. TSS	201.75	1456.99	47.89	991.51	15.7	172.57	72		mg/l	kg/d	3	3139	1
e. Ammonia *(as N)*	< 0.03	<0.2					1		mg/l	kg/d	< 0.03	<31.39	1
f. Flow	VALUE:	5.786	VALUE:	5.470	VALUE:	2.904	54		MGD		VALUE:	276.4	1
g. Temperature *(winter)*	VALUE:		VALUE:		VALUE:				° C		VALUE:		
h. Temperature *(summer)*	VALUE:	12.3	VALUE:		VALUE:		1		° C		VALUE:	11.6	1
i. pH	Minimum 7.82	Maximum 8.40	Minimum 7.82	Maximum 8.40			54		Standard Units				

TABLE B

1. POLLUTANT	2. Mark 'X'		3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Believed Present	b. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
			(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
a. Bromide	x		< 0.06	<0.43					1	mg/l	kg/d	< 0.06	<62.77	1
b. Chloride	x		39.7	286.7					1	mg/l	kg/d	16.2	16948	1
c. Chlorine, Tot. Residual	x		<0.10	<0.72					1	mg/l	kg/d	<0.10	<104.6	1
d. Color	x		VALUE:	<5.0	VALUE:		VALUE:		1	Color Units		VALUE:	<5.0	1
e. Fecal Coliform	x		VALUE:	< 1	VALUE:		VALUE:		1	colonies/100ml		VALUE:	38	1
f. Fluoride	x		0.12	0.87					1	mg/l	kg/d	0.06	62.77	1
g. Nitrate/Nitrite	x		1.71	12.35					1	mg/l	kg/d	0.87	910.2	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE B (CONTINUED)

OUTLET NO.
004

1. POLLUTANT	2. Mark 'X'		3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Believed Present	b. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
			(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
h. TON	x		<0.05	<0.4					1	mg/l	kg/d	<0.05	<52.31	1
i. O&G	x		5.0	36.11	5.0	103.52	2.6	28.58	18	mg/l	kg/d	<2	<2092	1
j. Phosphorus	x		0.08	0.58					1	mg/l	kg/d	0.14	146.5	1
k. Radioactivity														
(1) Total Alpha	x		VALUE: 0.30±1.52		VALUE:		VALUE:		1	pCi/liter		VALUE: 0.91±1.68		1
(2) Total Beta	x		VALUE: 4.2±2.7		VALUE:		VALUE:		1	pCi/liter		VALUE: 6.7±2.7		1
(3) Total Radium	x		VALUE: 0.14±0.54		VALUE:		VALUE:		1	pCi/liter		VALUE: 0.15±0.44		1
(4) Radium 226	x		VALUE: 0.07±0.25		VALUE:		VALUE:		1	pCi/liter		VALUE: 0.15±0.28		1
l. Sulfate	x		24.8	179.1					1	mg/l	kg/d	17.7	18517	1
m. Sulfide	x		< 0.5	<3.6					1	mg/l	kg/d	< 0.5	<523.1	1
n. Sulfite	x		< 2	<14.4					1	mg/l	kg/d	< 2	<2092	1
o. Surfactants	x		< 0.025	<0.18					1	mg/l	kg/d	< 0.025	<26.15	1
p. Aluminum	x		0.13	0.968					1	mg/l	kg/d	0.005	5.231	1
q. Barium	x		0.066	0.477					1	mg/l	kg/d	0.0256	26.78	1
r. Boron	x		< 0.09	<0.65					1	mg/l	kg/d	< 0.09	<94.16	1
s. Cobalt	x		< 0.001	<0.007					1	mg/l	kg/d	< 0.001	<1.046	1
t. Iron	x		0.172	1.242					1	mg/l	kg/d	0.102	106.7	1
u. Magnesium	x		8.55	61.75					1	mg/l	kg/d	8.57	8966	1
v. Molybdenum	x		0.0012	0.009					1	mg/l	kg/d	0.0012	1.255	1
w. Manganese	x		0.012	0.087					1	mg/l	kg/d	0.029	30.34	1
x. Tin	x		< 0.001	<0.007					1	mg/l	kg/d	< 0.001	<1.046	1
y. Titanium	x		0.005	0.036					1	mg/l	kg/d	0.0017	1.778	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 004

TABLE C

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
				a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
	a. Testing Required	b. Believed Present	c. Believed Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony	x			0.3	0.002					1	ug/l	kg/d	<0.2	<0.209	1
2M. Arsenic	x			3	0.022					1	ug/l	kg/d	< 1	<1.046	1
3M. Beryllium	x			< 0.2	<0.001					1	ug/l	kg/d	<0.2	<0.209	1
4M. Cadmium	x			< 0.2	<0.001					1	ug/l	kg/d	<0.2	<0.209	1
5M. Chromium	x			1	0.007					1	ug/l	kg/d	< 1	<1.046	1
6M. Copper	x			1.1	0.008					1	ug/l	kg/d	2.2	2.302	1
7M. Lead	x			0.4	0.003					1	ug/l	kg/d	0.5	0.523	1
8M. Mercury	x			< 0.1	<0.001					1	ug/l	kg/d	<0.1	<0.105	1
9M. Nickel	x			< 2	<0.014					1	ug/l	kg/d	< 2	<2.092	1
10M. Selenium	x			< 1	<0.007					1	ug/l	kg/d	< 1	<1.046	1
11M. Silver	x			< 1	<0.007					1	ug/l	kg/d	1.1	1.151	1
12M. Thallium	x			< 0.2	<0.001					1	ug/l	kg/d	<0.2	<0.209	1
13M. Zinc	x			5.2	0.038					1	ug/l	kg/d	4.8	5.022	1
14M. Cyanide	x			< 4	<0.029					1	ug/l	kg/d	< 4	<4.185	1
15M. Phenols*	x			< 1	<0.007					1	ug/l	kg/d	< 1	<1.046	1
DIOXIN															
2,3,7,8-tetrachlorodibenzo-P-dioxin			x	Describe Results:											

* The intake and outfall values reported for total phenols were those reported in the 2004 VPDES permit renewal application due to this parameter not being analyzed by the lab.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 004

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- VOLATILE COMPOUNDS															
1V. Acrolein	x			< 4.36	<0.031					1	ug/l	kg/d	< 4.36	<4.561	1
2V. Acrylonitrile	x			< 4.24	<0.031					1	ug/l	kg/d	< 4.24	<4.436	1
3V. Benzene	x			< 0.13	<0.001					1	ug/l	kg/d	< 0.13	<0.136	1
4V. Bromoform	x			< 0.4	<0.003					1	ug/l	kg/d	< 0.4	<0.418	1
5V. Carbon Tetrachloride	x			< 0.25	<0.002					1	ug/l	kg/d	< 0.25	<0.262	1
6V. Chlorobenzene	x			< 0.18	<0.001					1	ug/l	kg/d	< 0.18	<0.188	1
7V. Dibromochloromethane	x			< 0.42	<0.003					1	ug/l	kg/d	< 0.42	<0.439	1
8V. Chloroethane	x			< 0.94	<0.007					1	ug/l	kg/d	< 0.94	<0.983	1
9V. 2-Chlorophenol	x			< 5.0	<0.036					1	ug/l	kg/d	< 2.29	<2.396	1
10V. Chloroform	x			< 0.25	<0.002					1	ug/l	kg/d	< 0.25	<0.262	1
11V. Dichlorobromomethane	x			< 0.16	<0.001					1	ug/l	kg/d	<0.16	<0.167	1
12V. 1,1-Dichloroethane	x			< 0.38	<0.003					1	ug/l	kg/d	< 0.38	<0.398	1
13V. 1,2-Dichloroethane	x			< 0.43	<0.003					1	ug/l	kg/d	< 0.43	<0.450	1
14V. 1,1-Dichloroethylene	x			< 0.33	<0.002					1	ug/l	kg/d	< 0.33	<0.345	1
15V. 1,2-Dichloropropane	x			< 0.46	<0.003					1	ug/l	kg/d	< 0.46	<0.481	1
16V. 1,3-Dichloropropylene	x			< 0.33	<0.002					1	ug/l	kg/d	< 0.22	<0.230	1
17V. Ethylbenzene	x			< 0.18	<0.001					1	ug/l	kg/d	< 0.18	<0.188	1
18V. Bromomethane	x			< 0.5	<0.004					1	ug/l	kg/d	< 0.5	<0.523	1
19V. Chloromethane	x			< 0.33	<0.002					1	ug/l	kg/d	< 0.33	<0.345	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Testing Required	b. Believed Present	c. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	(2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses
GC/MS FRACTION -- VOLATILE COMPOUNDS (continued)															
20V. Methylene Chloride	x			< 0.54	<0.004					1	ug/l	kg/d	< 0.54	<0.565	1
21V. 1,1,2,2-Tetrachloroethane	x			< 0.38	<0.003					1	ug/l	kg/d	< 0.38	<0.398	1
22V. Tetrachloroethylene	x			< 0.20	<0.001					1	ug/l	kg/d	< 0.20	<0.209	1
23V. Toluene	x			< 0.17	<0.001					1	ug/l	kg/d	< .017	<0.018	1
24V. 1,2- Trans Dichloroethylene	x			< 0.39	<0.003					1	ug/l	kg/d	< 0.39	<0.408	1
25V. 1,1,1-trichloroethane	x			< 0.35	<0.003					1	ug/l	kg/d	< 0.35	<0.366	1
26V. 1,1,2-trichloroethane	x			< 0.49	<0.004					1	ug/l	kg/d	< 0.49	<0.513	1
27V. Trichloroethylene	x			< 0.30	<0.002					1	ug/l	kg/d	< 0.30	<0.314	1
28V. Vinyl Chloride	x			< 0.22	<0.002					1	ug/l	kg/d	< 0.22	<0.230	1
GC/MS FRACTION -- ACID COMPOUNDS															
1A. 2-Chlorophenol	x			< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
2A. 2,4-Dichlorophenol	x			< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
3A. 2,4-Dimethylphenol	x			< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
4A. 4,6-Dinitro-2-methylphenol	x			< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
5A. 2,4-Dinitrophenol	x			< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
6A. 2-Nitrophenol	x			< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
7A. 4-Nitrophenol	x			< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
8A. 4-Chloro-3-methylphenol	x			< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
9A. Pentachlorophenol	x			< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
10A. Phenol	x			< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
11A. 2,4,6-Trichlorophenol	x			< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1

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TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Testing Required	b. Believed Present	c. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	(2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
2B. Acenaphtylene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
3B. Anthracene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
4B. Benzidine			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
5B. Benzo(a)Anthracene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
6B. Benzo(a)Pyrene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
7B. Benzo(b)fluoranthene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
8B. Benzo(ghi)perylene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
9B. Benzo(k)fluoranthene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
10B. Bis(2-chloroethoxy)methane			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
11B. Bis(2-chloroethyl)ether			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
12B. Bis(2-chloroisopropyl)ether			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
13B. Bis(2-ethylhexyl)phthalate			x	8.9	0.06					1	ug/l	kg/d	< 6.87	<7.187	1
14B. 4-bromophenyl Phenyl Ether			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
15B. Butyl Benzyl Phthalate			x	< 5.89	<0.043					1	ug/l	kg/d	< 5.73	<5.995	1
16B. 2-Chloronaphthalene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
17B. 4-chlorophenyl Phenyl Ether			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
18B. Chrysene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
19B. Dibenzo(a,h)anthracene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
20B. 1,2-dichlorobenzene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
21B. 1,3-dichlorobenzene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1

Note: Testing for base/neutral compounds is not required for steam electric power plants.

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TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration		(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-dichlorobenzene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
23B. 3,3-dichlorobenzidine			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
24B. diethylphthalate			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
25B. Dimethylphthalate			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
26B. di-N-Butylphthalate			x	< 3.53	<0.025					1	ug/l	kg/d	< 3.44	<3.599	1
27B. 2,4-Dinitrotoluene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
28B. 2,6-dinitrotoluene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
29B. di-N-Octyl Phthalate			x	< 5.89	<0.043					1	ug/l	kg/d	< 5.73	<5.995	1
30B. 1,2-Diphenylhydrazine			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
31B. Fluoranthene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
32B. Fluorene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
33B. Hexachlorobenzene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
34B. Hexachlorobutadiene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
35B. Hexachlorocyclopentadiene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
36B. Hexachloroethane			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
37B. Indeno(1,2,3-cd)Pyrene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
38B. Isophorone			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
39B. Naphthalene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
40B. Nitrobenzene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
41B. N-Nitrosodimethylamine			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
42B. N-Nitrosodi-N-Propylamine			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1

Note: Testing for base/neutral compounds is not required for steam electric power plants.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Testing Required	b. Believed Present	c. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	(2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
44B. Phenanthrene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
45B. Pyrene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
46B. 1,2,4-trichlorobenzene			x	< 2.35	<0.017					1	ug/l	kg/d	< 2.29	<2.396	1
GC/MS FRACTION -- PESTICIDES															
1P. Aldrin			x												
2P. a-BHC			x												
3P. b-BHC			x												
4P. g-BHC			x												
5P. d-BHC			x												
6P. Chlordane			x												
7P. 4,4-DDT			x												
8P. 4,4-DDE			x												
9P. 4,4-DDD			x												
10P. Dieldrin			x												
11P. a-Endosulfan			x												
12P. b-Endosulfan			x												
13P. Endosulfan sulfate			x												
14P. Endrin			x												
15P. Endrin Aldehyde			x												
16P. Heptachlor			x												

Note: Testing for base/neutral compounds is not required for steam electric power plants.
Testing for pesticides is not required for steam electric power plants.

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TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- PESTICIDES (continued)															
17P. Heptachlor Epoxide			X												
18P. PCB-1242			X												
19P. PCB-1254			X												
20P. PCB-1221			X												
21P. PCB-1232			X												
22P. PCB-1248			X												
23P. PCB-1260			X												
24P. PCB-1016			X												
25P. Toxaphene			X												

Note: Testing for pesticides is not required for steam electric power plants.

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TABLE A

1. POLLUTANT	2. EFFLUENT							3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		b. No. of Analyses
	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
a. BOD	< 2.0	<922.7					1	mg/l	kg/d	11	11508	1
b. COD	5	2306.77					1	mg/l	kg/d	6	6277	1
c. TOC	2.4	1107.25					1	mg/l	kg/d	2.4	2511	1
d. TSS	< 1.0	<461.4					1	mg/l	kg/d	3	3139	1
e. Ammonia *(as N)*	0.03	13.84					1	mg/l	kg/d	< 0.03	<31.39	1
f. Flow	VALUE:	177.41	VALUE:	127.3	VALUE:	112.97	54	MGD		VALUE:	276.4	1
g. Temperature *(winter)*	VALUE:		VALUE:		VALUE:			° C		VALUE:		
h. Temperature *(summer)*	VALUE:	15.6	VALUE:		VALUE:		1	° C		VALUE:	11.6	1
i. pH	Minimum 8.04	Maximum 8.04	Minimum	Maximum			1	Standard Units				

TABLE B

1. POLLUTANT	2. Mark 'X'		3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
			a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
	a. Believed Present	b. Believed Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
a. Bromide	x		< 0.06	<27.68					1	mg/l	kg/d	< 0.06	<62.77	1
b. Chloride	x		6.52	3008					1	mg/l	kg/d	16.2	16948	1
c. Chlorine, Tot. Residual	x		<0.10	<46.14					1	mg/l	kg/d	<0.10	<104.6	1
d. Color	x		VALUE:	<5.0	VALUE:		VALUE:		1	Color Units		VALUE:	<5.0	1
e. Fecal Coliform	x		VALUE:	18	VALUE:		VALUE:		1	colonies/100ml		VALUE:	38	1
f. Fluoride	x		0.28	129.2					1	mg/l	kg/d	0.06	62.77	1
g. Nitrate/Nitrite	x		0.69	318.3					1	mg/l	kg/d	0.87	910.2	1

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TABLE B (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Believed Present	2. Mark 'X' b. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	a. MAXIMUM DAILY VALUE (2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	b. MAXIMUM 30 DAY VALUE (2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	c. LONG TERM AVRG. VALUE (2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	4. UNITS b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	a. LONG TERM AVRG. VALUE (2) Mass	d. No. of Analyses
h. TON	x		<0.05	<23.1					1	mg/l	kg/d	<0.05	<52.31	1
i. O&G	x		<2	<922.7					1	mg/l	kg/d	<2	<2092	1
j. Phosphorus	x		0.13	59.98					1	mg/l	kg/d	0.14	146.5	1
k. Radioactivity														
(1) Total Alpha	x		VALUE: 1.1±1.7		VALUE:		VALUE:		1	pCi/liter		VALUE: 0.91±1.68		1
(2) Total Beta	x		VALUE: 2.8±2.6		VALUE:		VALUE:		1	pCi/liter		VALUE: 6.7±2.7		1
(3) Total Radium	x		VALUE: 0.11±0.57		VALUE:		VALUE:		1	pCi/liter		VALUE: 0.15±0.44		1
(4) Radium 226	x		VALUE: 0.20±0.31		VALUE:		VALUE:		1	pCi/liter		VALUE: 0.15±0.28		1
l. Sulfate	x		16.2	7474					1	mg/l	kg/d	17.7	18517	1
m. Sulfide	x		< 0.5	<230.7					1	mg/l	kg/d	< 0.5	<523.1	1
n. Sulfite	x		< 2	<922.7					1	mg/l	kg/d	< 2	<2092	1
o. Surfactants	x		< 0.025	<11.53					1	mg/l	kg/d	< 0.025	<26.15	1
p. Aluminum	x		< 0.005	<2.307					1	mg/l	kg/d	0.005	5.231	1
q. Barium	x		0.023	10.61					1	mg/l	kg/d	0.0256	26.78	1
r. Boron	x		< 0.09	<41.52					1	mg/l	kg/d	< 0.09	<94.16	1
s. Cobalt	x		< 0.001	<0.461					1	mg/l	kg/d	< 0.001	<1.046	1
t. Iron	x		0.047	21.68					1	mg/l	kg/d	0.102	106.7	1
u. Magnesium	x		8.06	3719					1	mg/l	kg/d	8.57	8966	1
v. Molybdenum	x		< 0.001	<0.461					1	mg/l	kg/d	0.0012	1.255	1
w. Manganese	x		0.007	3.229					1	mg/l	kg/d	0.029	30.34	1
x. Tin	x		< 0.001	<0.461					1	mg/l	kg/d	< 0.001	<1.046	1
y. Titanium	x		0.0011	0.507					1	mg/l	kg/d	0.0017	1.778	1

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TABLE C

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony	x			< 0.2	<0.092					1	ug/l	kg/d	<0.2	<0.209	1
2M. Arsenic	x			< 1	<0.461					1	ug/l	kg/d	< 1	<1.046	1
3M. Beryllium	x			< 0.2	<0.092					1	ug/l	kg/d	<0.2	<0.209	1
4M. Cadmium	x			< 0.2	<0.092					1	ug/l	kg/d	<0.2	<0.209	1
5M. Chromium	x			< 1	<0.461					1	ug/l	kg/d	< 1	<1.046	1
6M. Copper	x			2.8	1.292					1	ug/l	kg/d	2.2	2.302	1
7M. Lead	x			0.6	0.2768					1	ug/l	kg/d	0.5	0.523	1
8M. Mercury	x			< 0.1	<0.046					1	ug/l	kg/d	<0.1	<0.105	1
9M. Nickel	x			< 2	<0.923					1	ug/l	kg/d	< 2	<2.092	1
10M. Selenium	x			< 1	<0.461					1	ug/l	kg/d	< 1	<1.046	1
11M. Silver	x			1.1	0.507					1	ug/l	kg/d	1.1	1.151	1
12M. Thallium	x			< 0.2	<0.092					1	ug/l	kg/d	<0.2	<0.209	1
13M. Zinc	x			6.6	3.045					1	ug/l	kg/d	4.8	5.022	1
14M. Cyanide	x			< 4	<1.845					1	ug/l	kg/d	< 4	<4.185	1
15M. Phenols*	x			< 1	<0.461					1	ug/l	kg/d	< 1	<1.046	1
DIOXIN															
2,3,7,8-tetrachlorodibenzo-P-dioxin			x	Describe Results:											

* The intake and outfall values reported for total phenols were those reported in the 2004 VPDES permit renewal application due to this parameter not being analyzed by the lab.

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TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Testing Required	b. Believed Present	c. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	(2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses
GC/MS FRACTION -- VOLATILE COMPOUNDS															
1V. Acrolein	x			< 4.36	<2.012					1	ug/l	kg/d	< 4.36	<4.561	1
2V. Acrylonitrile	x			< 4.24	<1.956					1	ug/l	kg/d	< 4.24	<4.436	1
3V. Benzene	x			< 0.13	<0.060					1	ug/l	kg/d	< 0.13	<0.136	1
4V. Bromoform	x			< 0.4	<0.185					1	ug/l	kg/d	< 0.4	<0.418	1
5V. Carbon Tetrachloride	x			< 0.25	<0.115					1	ug/l	kg/d	< 0.25	<0.262	1
6V. Chlorobenzene	x			< 0.18	<0.083					1	ug/l	kg/d	< 0.18	<0.188	1
7V. Dibromochloromethane	x			< 0.42	<0.194					1	ug/l	kg/d	< 0.42	<0.439	1
8V. Chloroethane	x			< 0.94	<0.434					1	ug/l	kg/d	< 0.94	<0.983	1
9V. 2-Chlorophenol	x			< 5.0	<2.307					1	ug/l	kg/d	< 2.29	<2.396	1
10V. Chloroform	x			< 0.25	<0.115					1	ug/l	kg/d	< 0.25	<0.262	1
11V. Dichlorobromomethane	x			< 0.16	<0.074					1	ug/l	kg/d	<0.16	<0.167	1
12V. 1,1-Dichloroethane	x			< 0.38	<0.175					1	ug/l	kg/d	< 0.38	<0.398	1
13V. 1,2-Dichloroethane	x			< 0.43	<0.198					1	ug/l	kg/d	< 0.43	<0.450	1
14V. 1,1-Dichloroethylene	x			< 0.33	<0.152					1	ug/l	kg/d	< 0.33	<0.345	1
15V. 1,2-Dichloropropane	x			< 0.46	<0.212					1	ug/l	kg/d	< 0.46	<0.481	1
16V. 1,3-Dichloropropylene	x			< 0.33	<0.152					1	ug/l	kg/d	< 0.22	<0.230	1
17V. Ethylbenzene	x			< 0.18	<0.083					1	ug/l	kg/d	< 0.18	<0.188	1
18V. Bromomethane	x			< 0.5	<0.231					1	ug/l	kg/d	< 0.5	<0.523	1
19V. Chloromethane	x			< 0.33	<0.152					1	ug/l	kg/d	< 0.33	<0.345	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

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TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- VOLATILE COMPOUNDS (continued)															
20V. Methylene Chloride	x			< 0.54	<0.249					1	ug/l	kg/d	< 0.54	<0.565	1
21V. 1,1,2,2-Tetrachloroethane	x			< 0.38	<0.175					1	ug/l	kg/d	< 0.38	<0.398	1
22V. Tetrachloroethylene	x			< 0.20	<0.092					1	ug/l	kg/d	< 0.20	<0.209	1
23V. Toluene	x			< 0.17	<0.078					1	ug/l	kg/d	< .017	<0.018	1
24V. 1,2- Trans Dichloroethylene	x			< 0.22	<0.101					1	ug/l	kg/d	< 0.39	<0.408	1
25V. 1,1,1-trichloroethane	x			< 0.35	<0.161					1	ug/l	kg/d	< 0.35	<0.366	1
26V. 1,1,2-trichloroethane	x			< 0.49	<0.226					1	ug/l	kg/d	< 0.49	<0.513	1
27V. Trichloroethylene	x			< 0.30	<0.138					1	ug/l	kg/d	< 0.30	<0.314	1
28V. Vinyl Chloride	x			< 0.22	<0.101					1	ug/l	kg/d	< 0.22	<0.230	1
GC/MS FRACTION -- ACID COMPOUNDS															
1A. 2-Chlorophenol	x			< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
2A. 2,4-Dichlorophenol	x			< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
3A. 2,4-Dimethylphenol	x			< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
4A. 4,6-Dinitro-2-methylphenol	x			< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
5A. 2,4-Dinitrophenol	x			< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
6A. 2-Nitrophenol	x			< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
7A. 4-Nitrophenol	x			< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
8A. 4-Chloro-3-methylphenol	x			< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
9A. Pentachlorophenol	x			< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
10A. Phenol	x			< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
11A. 2,4,6-Trichlorophenol	x			< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Testing Required	b. Believed Present	c. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	(2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
2B. Acenaphtylene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
3B. Anthracene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
4B. Benzidine			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
5B. Benzo(a)Anthracene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
6B. Benzo(a)Pyrene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
7B. Benzo(b)fluoranthene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
8B. Benzo(ghi)perylene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
9B. Benzo(k)fluoranthene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
10B. Bis(2-chloroethoxy)methane			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
11B. Bis(2-chloroethyl)ether			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
12B. Bis(2-chloroisopropyl)ether			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
13B. Bis(2-ethylhexyl)phthalate			x	< 7	<3.229					1	ug/l	kg/d	< 6.87	<7.187	1
14B. 4-bromophenyl Phenyl Ether			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
15B. Butyl Benzyl Phthalate			x	< 5.83	<2.690					1	ug/l	kg/d	< 5.73	<5.995	1
16B. 2-Chloronaphthalene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
17B. 4-chlorophenyl Phenyl Ether			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
18B. Chrysene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
19B. Dibenzo(a,h)anthracene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
20B. 1,2-dichlorobenzene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
21B. 1,3-dichlorobenzene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1

Note: Testing for base/neutral compounds is not required for steam electric power plants.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

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TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Testing Required	b. Believed Present	c. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	(2)	b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-dichlorobenzene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
23B. 3,3-dichlorobenzidine			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
24B. diethylphthalate			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
25B. Dimethylphthalate			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
26B. di-N-Butylphthalate			x	< 3.5	<1.615					1	ug/l	kg/d	< 3.44	<3.599	1
27B. 2,4-Dinitrotoluene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
28B. 2,6-dinitrotoluene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
29B. di-N-Octyl Phthalate			x	< 5.83	<2.690					1	ug/l	kg/d	< 5.73	<5.995	1
30B. 1,2-Diphenylhydrazine			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
31B. Fluoranthene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
32B. Fluorene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
33B. Hexachlorobenzene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
34B. Hexachlorobutadiene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
35B. Hexachlorocyclopentadiene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
36B. Hexachloroethane			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
37B. Indeno(1,2,3-cd)Pyrene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
38B. Isophorone			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
39B. Naphthalene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
40B. Nitrobenzene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
41B. N-Nitrosodimethylamine			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
42B. N-Nitrosodi-N-Propylamine			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1

Note: Testing for base/neutral compounds is not required for steam electric power plants.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Testing Required	b. Believed Present	c. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	(2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
44B. Phenanthrene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
45B. Pyrene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
46B. 1,2,4-trichlorobenzene			x	< 2.33	<1.075					1	ug/l	kg/d	< 2.29	<2.396	1
GC/MS FRACTION -- PESTICIDES															
1P. Aldrin			x												
2P. a-BHC			x												
3P. b-BHC			x												
4P. g-BHC			x												
5P. d-BHC			x												
6P. Chlordane			x												
7P. 4,4-DDT			x												
8P. 4,4-DDE			x												
9P. 4,4-DDD			x												
10P. Dieldrin			x												
11P. a-Endosulfan			x												
12P. b-Endosulfan			x												
13P. Endosulfan sulfate			x												
14P. Endrin			x												
15P. Endrin Aldehyde			x												
16P. Heptachlor			x												

Note: Testing for base/neutral compounds is not required for steam electric power plants.
Testing for pesticides is not required for steam electric power plants.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

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TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- PESTICIDES (continued)															
17P. Heptachlor Epoxide			X												
18P. PCB-1242			X												
19P. PCB-1254			X												
20P. PCB-1221			X												
21P. PCB-1232			X												
22P. PCB-1248			X												
23P. PCB-1260			X												
24P. PCB-1016			X												
25P. Toxaphene			X												

Note: Testing for pesticides is not required for steam electric power plants.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 006

TABLE A

1. POLLUTANT	2. EFFLUENT								3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses				a. LONG TERM AVRG. VALUE		b. No. of Analyses
	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass			a. Concentration	b. Mass	(1) Concentration	(2) Mass	
a. BOD									mg/l	kg/d	11	11508	1
b. COD									mg/l	kg/d	6	6277	1
c. TOC									mg/l	kg/d	2.4	2511	1
d. TSS									mg/l	kg/d	3	3139	1
e. Ammonia *(as N)*									mg/l	kg/d	< 0.03	<31.39	1
f. Flow	VALUE:		VALUE:		VALUE:				MGD		VALUE:	276.4	1
g. Temperature *(winter)*	VALUE:		VALUE:		VALUE:				° C		VALUE:		
h. Temperature *(summer)*	VALUE:		VALUE:		VALUE:				° C		VALUE:	11.6	1
i. pH	Minimum	Maximum	Minimum	Maximum					Standard Units				

TABLE B

1. POLLUTANT	2. Mark 'X'		3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
			a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
	a. Believed Present	b. Believed Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
a. Bromide	x									mg/l	kg/d	< 0.06	<62.77	1
b. Chloride	x									mg/l	kg/d	16.2	16948	1
c. Chlorine, Tot. Residual	x									mg/l	kg/d	<0.10	<104.6	1
d. Color	x		VALUE:		VALUE:		VALUE:			Color Units		VALUE:	<5.0	1
e. Fecal Coliform	x		VALUE:		VALUE:		VALUE:			colonies/100ml		VALUE:	38	1
f. Fluoride	x									mg/l	kg/d	0.06	62.77	1
g. Nitrate/Nitrite	x									mg/l	kg/d	0.87	910.2	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE B (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Believed Present	2. Mark 'X' b. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	a. MAXIMUM DAILY VALUE (2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	b. MAXIMUM 30 DAY VALUE (2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	c. LONG TERM AVRG. VALUE (2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	4. UNITS b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	a. LONG TERM AVRG. VALUE (2) Mass	d. No. of Analyses
h. TON	x									mg/l	kg/d	<0.05	<52.31	1
i. O&G	x									mg/l	kg/d	<2	<2092	1
j. Phosphorus	x									mg/l	kg/d	0.14	146.5	1
k. Radioactivity														
(1) Total Alpha	x		VALUE:		VALUE:		VALUE:			pCi/liter		VALUE: 0.91±1.68		1
(2) Total Beta	x		VALUE:		VALUE:		VALUE:			pCi/liter		VALUE: 6.7±2.7		1
(3) Total Radium	x		VALUE:		VALUE:		VALUE:			pCi/liter		VALUE: 0.15±0.44		1
(4) Radium 226	x		VALUE:		VALUE:		VALUE:			pCi/liter		VALUE: 0.15±0.28		1
l. Sulfate	x									mg/l	kg/d	17.7	18517	1
m. Sulfide	x									mg/l	kg/d	< 0.5	<523.1	1
n. Sulfite	x									mg/l	kg/d	< 2	<2092	1
o. Surfactants	x									mg/l	kg/d	< 0.025	<26.15	1
p. Aluminum	x									mg/l	kg/d	0.005	5.231	1
q. Barium	x									mg/l	kg/d	0.0256	26.78	1
r. Boron	x									mg/l	kg/d	< 0.09	<94.16	1
s. Cobalt	x									mg/l	kg/d	< 0.001	<1.046	1
t. Iron	x									mg/l	kg/d	0.102	106.7	1
u. Magnesium	x									mg/l	kg/d	8.57	8966	1
v. Molybdenum	x									mg/l	kg/d	0.0012	1.255	1
w. Manganese	x									mg/l	kg/d	0.029	30.34	1
x. Tin	x									mg/l	kg/d	< 0.001	<1.046	1
y. Titanium	x									mg/l	kg/d	0.0017	1.778	1

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TABLE C

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony	x										ug/l	kg/d	<0.2	<0.209	1
2M. Arsenic	x										ug/l	kg/d	< 1	<1.046	1
3M. Beryllium	x										ug/l	kg/d	<0.2	<0.209	1
4M. Cadmium	x										ug/l	kg/d	<0.2	<0.209	1
5M. Chromium	x										ug/l	kg/d	< 1	<1.046	1
6M. Copper	x										ug/l	kg/d	2.2	2.302	1
7M. Lead	x										ug/l	kg/d	0.5	0.523	1
8M. Mercury	x										ug/l	kg/d	<0.1	<0.105	1
9M. Nickel	x										ug/l	kg/d	< 2	<2.092	1
10M. Selenium	x										ug/l	kg/d	< 1	<1.046	1
11M. Silver	x										ug/l	kg/d	1.1	1.151	1
12M. Thallium	x										ug/l	kg/d	<0.2	<0.209	1
13M. Zinc	x										ug/l	kg/d	4.8	5.022	1
14M. Cyanide	x										ug/l	kg/d	< 4	<4.185	1
15M. Phenols*	x										ug/l	kg/d	< 1	<1.046	1
DIOXIN															
2,3,7,8-tetrachlorodibenzo-P-dioxin			x	Describe Results:											

* The intake value reported for total phenols were those reported in the 2004 VPDES permit renewal application due to this parameter not being analyzed by the lab.

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006

V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- VOLATILE COMPOUNDS															
1V. Acrolein	x										ug/l	kg/d	< 4.36	<4.561	1
2V. Acrylonitrile	x										ug/l	kg/d	< 4.24	<4.436	1
3V. Benzene	x										ug/l	kg/d	< 0.13	<0.136	1
4V. Bromoform	x										ug/l	kg/d	< 0.4	<0.418	1
5V. Carbon Tetrachloride	x										ug/l	kg/d	< 0.25	<0.262	1
6V. Chlorobenzene	x										ug/l	kg/d	< 0.18	<0.188	1
7V. Dibromochloromethane	x										ug/l	kg/d	< 0.42	<0.439	1
8V. Chloroethane	x										ug/l	kg/d	< 0.94	<0.983	1
9V. 2-Chlorophenol	x										ug/l	kg/d	< 2.29	<2.396	1
10V. Chloroform	x										ug/l	kg/d	< 0.25	<0.262	1
11V. Dichlorobromomethane	x										ug/l	kg/d	<0.16	<0.167	1
12V. 1,1-Dichloroethane	x										ug/l	kg/d	< 0.38	<0.398	1
13V. 1,2-Dichloroethane	x										ug/l	kg/d	< 0.43	<0.450	1
14V. 1,1-Dichloroethylene	x										ug/l	kg/d	< 0.33	<0.345	1
15V. 1,2-Dichloropropane	x										ug/l	kg/d	< 0.46	<0.481	1
16V. 1,3-Dichloropropylene	x										ug/l	kg/d	< 0.22	<0.230	1
17V. Ethylbenzene	x										ug/l	kg/d	< 0.18	<0.188	1
18V. Bromomethane	x										ug/l	kg/d	< 0.5	<0.523	1
19V. Chloromethane	x										ug/l	kg/d	< 0.33	<0.345	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- VOLATILE COMPOUNDS (continued)															
20V. Methylene Chloride	x										ug/l	kg/d	< 0.54	<0.565	1
21V. 1,1,2,2-Tetrachloroethane	x										ug/l	kg/d	< 0.38	<0.398	1
22V. Tetrachloroethylene	x										ug/l	kg/d	< 0.20	<0.209	1
23V. Toluene	x										ug/l	kg/d	< .017	<0.018	1
24V. 1,2- Trans Dichloroethylene	x										ug/l	kg/d	< 0.39	<0.408	1
25V. 1,1,1-trichloroethane	x										ug/l	kg/d	< 0.35	<0.366	1
26V. 1,1,2-trichloroethane	x										ug/l	kg/d	< 0.49	<0.513	1
27V. Trichloroethylene	x										ug/l	kg/d	< 0.30	<0.314	1
28V. Vinyl Chloride	x										ug/l	kg/d	< 0.22	<0.230	1
GC/MS FRACTION -- ACID COMPOUNDS															
1A. 2-Chlorophenol	x										ug/l	kg/d	< 2.29	<2.396	1
2A. 2,4-Dichlorophenol	x										ug/l	kg/d	< 2.29	<2.396	1
3A. 2,4-Dimethylphenol	x										ug/l	kg/d	< 2.29	<2.396	1
4A. 4,6-Dinitro-2-methylphenol	x										ug/l	kg/d	< 2.29	<2.396	1
5A. 2,4-Dinitrophenol	x										ug/l	kg/d	< 2.29	<2.396	1
6A. 2-Nitrophenol	x										ug/l	kg/d	< 2.29	<2.396	1
7A. 4-Nitrophenol	x										ug/l	kg/d	< 2.29	<2.396	1
8A. 4-Chloro-3-methylphenol	x										ug/l	kg/d	< 2.29	<2.396	1
9A. Pentachlorophenol	x										ug/l	kg/d	< 2.29	<2.396	1
10A. Phenol	x										ug/l	kg/d	< 2.29	<2.396	1
11A. 2,4,6-Trichlorophenol	x										ug/l	kg/d	< 2.29	<2.396	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Testing Required	b. Believed Present	c. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	(2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene			x								ug/l	kg/d	< 2.29	<2.396	1
2B. Acenaphtylene			x								ug/l	kg/d	< 2.29	<2.396	1
3B. Anthracene			x								ug/l	kg/d	< 2.29	<2.396	1
4B. Benzidine			x								ug/l	kg/d	< 2.29	<2.396	1
5B. Benzo(a)Anthracene			x								ug/l	kg/d	< 2.29	<2.396	1
6B. Benzo(a)Pyrene			x								ug/l	kg/d	< 2.29	<2.396	1
7B. Benzo(b)fluoranthene			x								ug/l	kg/d	< 2.29	<2.396	1
8B. Benzo(ghi)perylene			x								ug/l	kg/d	< 2.29	<2.396	1
9B. Benzo(k)fluoranthene			x								ug/l	kg/d	< 2.29	<2.396	1
10B. Bis(2-chloroethoxy)methane			x								ug/l	kg/d	< 2.29	<2.396	1
11B. Bis(2-chloroethyl)ether			x								ug/l	kg/d	< 2.29	<2.396	1
12B. Bis(2-chloroisopropyl)ether			x								ug/l	kg/d	< 2.29	<2.396	1
13B. Bis(2-ethylhexyl)phthalate			x								ug/l	kg/d	< 6.87	<7.187	1
14B. 4-bromophenyl Phenyl Ether			x								ug/l	kg/d	< 2.29	<2.396	1
15B. Butyl Benzyl Phthalate			x								ug/l	kg/d	< 5.73	<5.995	1
16B. 2-Chloronaphthalene			x								ug/l	kg/d	< 2.29	<2.396	1
17B. 4-chlorophenyl Phenyl Ether			x								ug/l	kg/d	< 2.29	<2.396	1
18B. Chrysene			x								ug/l	kg/d	< 2.29	<2.396	1
19B. Dibenzo(a,h)anthracene			x								ug/l	kg/d	< 2.29	<2.396	1
20B. 1,2-dichlorobenzene			x								ug/l	kg/d	< 2.29	<2.396	1
21B. 1,3-dichlorobenzene			x								ug/l	kg/d	< 2.29	<2.396	1

Note: Testing for base/neutral compounds is not required for steam electric power plants.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 006

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration		(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-dichlorobenzene			x								ug/l	kg/d	< 2.29	<2.396	1
23B. 3,3-dichlorobenzidine			x								ug/l	kg/d	< 2.29	<2.396	1
24B. diethylphthalate			x								ug/l	kg/d	< 2.29	<2.396	1
25B. Dimethylphthalate			x								ug/l	kg/d	< 2.29	<2.396	1
26B. di-N-Butylphthalate			x								ug/l	kg/d	< 3.44	<3.599	1
27B. 2,4-Dinitrotoluene			x								ug/l	kg/d	< 2.29	<2.396	1
28B. 2,6-dinitrotoluene			x								ug/l	kg/d	< 2.29	<2.396	1
29B. di-N-Octyl Phthalate			x								ug/l	kg/d	< 5.73	<5.995	1
30B. 1,2-Diphenylhydrazine			x								ug/l	kg/d	< 2.29	<2.396	1
31B. Fluoranthene			x								ug/l	kg/d	< 2.29	<2.396	1
32B. Fluorene			x								ug/l	kg/d	< 2.29	<2.396	1
33B. Hexachlorobenzene			x								ug/l	kg/d	< 2.29	<2.396	1
34B. Hexachlorobutadiene			x								ug/l	kg/d	< 2.29	<2.396	1
35B. Hexachlorocyclopentadiene			x								ug/l	kg/d	< 2.29	<2.396	1
36B. Hexachloroethane			x								ug/l	kg/d	< 2.29	<2.396	1
37B. Indeno(1,2,3-cd)Pyrene			x								ug/l	kg/d	< 2.29	<2.396	1
38B. Isophorone			x								ug/l	kg/d	< 2.29	<2.396	1
39B. Naphthalene			x								ug/l	kg/d	< 2.29	<2.396	1
40B. Nitrobenzene			x								ug/l	kg/d	< 2.29	<2.396	1
41B. N-Nitrosodimethylamine			x								ug/l	kg/d	< 2.29	<2.396	1
42B. N-Nitrosodi-N-Propylamine			x								ug/l	kg/d	< 2.29	<2.396	1

Note: Testing for base/neutral compounds is not required for steam electric power plants.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 006

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Testing Required	b. Believed Present	c. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	(2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine			x								ug/l	kg/d	< 2.29	<2.396	1
44B. Phenanthrene			x								ug/l	kg/d	< 2.29	<2.396	1
45B. Pyrene			x								ug/l	kg/d	< 2.29	<2.396	1
46B. 1,2,4-trichlorobenzene			x								ug/l	kg/d	< 2.29	<2.396	1
GC/MS FRACTION -- PESTICIDES															
1P. Aldrin			x												
2P. a-BHC			x												
3P. b-BHC			x												
4P. g-BHC			x												
5P. d-BHC			x												
6P. Chlordane			x												
7P. 4,4-DDT			x												
8P. 4,4-DDE			x												
9P. 4,4-DDD			x												
10P. Dieldrin			x												
11P. a-Endosulfan			x												
12P. b-Endosulfan			x												
13P. Endosulfan sulfate			x												
14P. Endrin			x												
15P. Endrin Aldehyde			x												
16P. Heptachlor			x												

Note: Testing for base/neutral compounds is not required for steam electric power plants.
Testing for pesticides is not required for steam electric power plants.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 006

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- PESTICIDES (continued)															
17P. Heptachlor Epoxide			x												
18P. PCB-1242			x												
19P. PCB-1254			x												
20P. PCB-1221			x												
21P. PCB-1232			x												
22P. PCB-1248			x												
23P. PCB-1260			x												
24P. PCB-1016			x												
25P. Toxaphene			x												

Note: Testing for pesticides is not required for steam electric power plants.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO.
007

TABLE A

1. POLLUTANT	2. EFFLUENT							3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		b. No. of Analyses
	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
a. BOD	< 2.0	<0.0					1	mg/l	kg/d	11	11508	1
b. COD	5	0.03					1	mg/l	kg/d	6	6277	1
c. TOC	1.47	0.01					1	mg/l	kg/d	2.4	2511	1
d. TSS	18.5	0.10	4.6	1.92	1.39	0.12	54	mg/l	kg/d	3	3139	1
e. Ammonia *(as N)*	0.11	0.00					1	mg/l	kg/d	< 0.03	<31.39	1
f. Flow	VALUE:	0.231	VALUE:	0.110	VALUE:	0.023	54	MGD		VALUE:	276.4	1
g. Temperature *(winter)*	VALUE:		VALUE:		VALUE:			° C		VALUE:		
h. Temperature *(summer)*	VALUE:	8.1	VALUE:		VALUE:		1	° C		VALUE:	11.6	1
i. pH	Minimum 8.20	Maximum 8.50	Minimum 8.20	Maximum 8.50			54	Standard Units				

TABLE B

1. POLLUTANT	2. Mark 'X'		3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Believed Present	b. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
			(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
a. Bromide	x		1.94	0.01					1	mg/l	kg/d	< 0.06	<62.77	1
b. Chloride	x		9.08	0.05					1	mg/l	kg/d	16.2	16948	1
c. Chlorine, Tot. Residual	x		<0.10	<0.00					1	mg/l	kg/d	<0.10	<104.6	1
d. Color	x		VALUE:	<5.0	VALUE:		VALUE:		1	Color Units		VALUE:	<5.0	1
e. Fecal Coliform	x		VALUE:	< 1	VALUE:		VALUE:		1	colonies/100ml		VALUE:	38	1
f. Fluoride	x		1.04	0.01					1	mg/l	kg/d	0.06	62.77	1
g. Nitrate/Nitrite	x		0.8	0.00					1	mg/l	kg/d	0.87	910.2	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 007

TABLE B (CONTINUED)

1. POLLUTANT	2. Mark 'X'		3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Believed Present	b. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
			(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
h. TON	x		<0.05	<0.0					1	mg/l	kg/d	<0.05	<52.31	1
i. O&G	x		<5.0	<0.0	<5.0	<2.082	2.5	0.22	19	mg/l	kg/d	<2	<2092	1
j. Phosphorus	x		0.11	0.00					1	mg/l	kg/d	0.14	146.5	1
k. Radioactivity														
(1) Total Alpha	x		VALUE: 11.0±1.7		VALUE:		VALUE:		1	pCi/liter		VALUE: 0.91±1.68		1
(2) Total Beta	x		VALUE: 14.0±1.4		VALUE:		VALUE:		1	pCi/liter		VALUE: 6.7±2.7		1
(3) Total Radium	x		VALUE: 0.43±0.52		VALUE:		VALUE:		1	pCi/liter		VALUE: 0.15±0.44		1
(4) Radium 226	x		VALUE: 0.17±0.27		VALUE:		VALUE:		1	pCi/liter		VALUE: 0.15±0.28		1
l. Sulfate	x		255	1.351					1	mg/l	kg/d	17.7	18517	1
m. Sulfide	x		< 0.5	<0.003					1	mg/l	kg/d	< 0.5	<523.1	1
n. Sulfite	x		< 2	<0.011					1	mg/l	kg/d	< 2	<2092	1
o. Surfactants	x		< 0.025	<0.000					1	mg/l	kg/d	< 0.025	<26.15	1
p. Aluminum	x		< 0.005	<0.000					1	mg/l	kg/d	0.005	5.231	1
q. Barium	x		0.134	0.001					1	mg/l	kg/d	0.0256	26.78	1
r. Boron	x		1.19	0.006					1	mg/l	kg/d	< 0.09	<94.16	1
s. Cobalt	x		0.001	0.000					1	mg/l	kg/d	< 0.001	<1.046	1
t. Iron	x		0.171	0.001					1	mg/l	kg/d	0.102	106.7	1
u. Magnesium	x		38.9	0.206					1	mg/l	kg/d	8.57	8966	1
v. Molybdenum	x		0.0377	0.000					1	mg/l	kg/d	0.0012	1.255	1
w. Manganese	x		1.67	0.009					1	mg/l	kg/d	0.029	30.34	1
x. Tin	x		<.0.001	<0.000					1	mg/l	kg/d	< 0.001	<1.046	1
y. Titanium	x		0.0051	0.000					1	mg/l	kg/d	0.0017	1.778	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 007

TABLE C

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony	x			0.5	0.000					1	ug/l	kg/d	<0.2	<0.209	1
2M. Arsenic	x			100	0.001					1	ug/l	kg/d	< 1	<1.046	1
3M. Beryllium	x			< 0.2	<0.000					1	ug/l	kg/d	<0.2	<0.209	1
4M. Cadmium	x			< 0.2	<0.000					1	ug/l	kg/d	<0.2	<0.209	1
5M. Chromium	x			< 1	<0.000					1	ug/l	kg/d	< 1	<1.046	1
6M. Copper	x			< 1	<0.000					1	ug/l	kg/d	2.2	2.302	1
7M. Lead	x			< 0.2	<0.000					1	ug/l	kg/d	0.5	0.523	1
8M. Mercury	x			< 0.1	<0.000					1	ug/l	kg/d	<0.1	<0.105	1
9M. Nickel	x			< 2	<0.000					1	ug/l	kg/d	< 2	<2.092	1
10M. Selenium	x			< 1	<0.000					1	ug/l	kg/d	< 1	<1.046	1
11M. Silver	x			1.1	0.000					1	ug/l	kg/d	1.1	1.151	1
12M. Thallium	x			< 0.2	<0.000					1	ug/l	kg/d	<0.2	<0.209	1
13M. Zinc	x			< 3	<0.000					1	ug/l	kg/d	4.8	5.022	1
14M. Cyanide	x			< 4	<0.021					1	ug/l	kg/d	< 4	<4.185	1
15M. Phenols*	x			< 1	<0.000					1	ug/l	kg/d	< 1	<1.046	1
DIOXIN															
2,3,7,8-tetrachlorodibenzo-P-dioxin			x	Describe Results:											

* The intake and outfall values reported for total phenols were those reported in the 2004 VPDES permit renewal application due to this parameter not being analyzed by the lab.

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007

V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- VOLATILE COMPOUNDS															
1V. Acrolein	x			< 4.36	<0.000					1	ug/l	kg/d	< 4.36	<4.561	1
2V. Acrylonitrile	x			< 4.24	<0.000					1	ug/l	kg/d	< 4.24	<4.436	1
3V. Benzene	x			< 0.13	<0.000					1	ug/l	kg/d	< 0.13	<0.136	1
4V. Bromoform	x			< 0.4	<0.000					1	ug/l	kg/d	< 0.4	<0.418	1
5V. Carbon Tetrachloride	x			< 0.25	<0.000					1	ug/l	kg/d	< 0.25	<0.262	1
6V. Chlorobenzene	x			< 0.18	<0.000					1	ug/l	kg/d	< 0.18	<0.188	1
7V. Dibromochloromethane	x			< 0.42	<0.000					1	ug/l	kg/d	< 0.42	<0.439	1
8V. Chloroethane	x			< 0.94	<0.000					1	ug/l	kg/d	< 0.94	<0.983	1
9V. 2-Chlorophenol	x			< 5.0	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
10V. Chloroform	x			< 0.25	<0.000					1	ug/l	kg/d	< 0.25	<0.262	1
11V. Dichlorobromomethane	x			< 0.16	<0.000					1	ug/l	kg/d	<0.16	<0.167	1
12V. 1,1-Dichloroethane	x			< 0.38	<0.000					1	ug/l	kg/d	< 0.38	<0.398	1
13V. 1,2-Dichloroethane	x			< 0.43	<0.000					1	ug/l	kg/d	< 0.43	<0.450	1
14V. 1,1-Dichloroethylene	x			< 0.33	<0.000					1	ug/l	kg/d	< 0.33	<0.345	1
15V. 1,2-Dichloropropane	x			< 0.46	<0.000					1	ug/l	kg/d	< 0.46	<0.481	1
16V. 1,3-Dichloropropylene	x			< 0.33	<0.000					1	ug/l	kg/d	< 0.22	<0.230	1
17V. Ethylbenzene	x			< 0.18	<0.000					1	ug/l	kg/d	< 0.18	<0.188	1
18V. Bromomethane	x			< 0.5	<0.000					1	ug/l	kg/d	< 0.5	<0.523	1
19V. Chloromethane	x			< 0.33	<0.000					1	ug/l	kg/d	< 0.33	<0.345	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Testing Required	b. Believed Present	c. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	(2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses
GC/MS FRACTION -- VOLATILE COMPOUNDS (continued)															
20V. Methylene Chloride	x			< 0.54	<0.000					1	ug/l	kg/d	< 0.54	<0.565	1
21V. 1,1,2,2-Tetrachloroethane	x			< 0.38	<0.000					1	ug/l	kg/d	< 0.38	<0.398	1
22V. Tetrachloroethylene	x			< 0.20	<0.000					1	ug/l	kg/d	< 0.20	<0.209	1
23V. Toluene	x			< 0.17	<0.000					1	ug/l	kg/d	< .017	<0.018	1
24V. 1,2- Trans Dichloroethylene	x			< 0.39	<0.000					1	ug/l	kg/d	< 0.39	<0.408	1
25V. 1,1,1-trichloroethane	x			< 0.35	<0.000					1	ug/l	kg/d	< 0.35	<0.366	1
26V. 1,1,2-trichloroethane	x			< 0.49	<0.000					1	ug/l	kg/d	< 0.49	<0.513	1
27V. Trichloroethylene	x			< 0.30	<0.000					1	ug/l	kg/d	< 0.30	<0.314	1
28V. Vinyl Chloride	x			< 0.22	<0.000					1	ug/l	kg/d	< 0.22	<0.230	1
GC/MS FRACTION -- ACID COMPOUNDS															
1A. 2-Chlorophenol	x			< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
2A. 2,4-Dichlorophenol	x			< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
3A. 2,4-Dimethylphenol	x			< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
4A. 4,6-Dinitro-2-methylphenol	x			< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
5A. 2,4-Dinitrophenol	x			< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
6A. 2-Nitrophenol	x			< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
7A. 4-Nitrophenol	x			< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
8A. 4-Chloro-3-methylphenol	x			< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
9A. Pentachlorophenol	x			< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
10A. Phenol	x			< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
11A. 2,4,6-Trichlorophenol	x			< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 007

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Testing Required	b. Believed Present	c. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	(2) Mass	b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
2B. Acenaphtylene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
3B. Anthracene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
4B. Benzidine			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
5B. Benzo(a)Anthracene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
6B. Benzo(a)Pyrene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
7B. Benzo(b)fluoranthene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
8B. Benzo(ghi)perylene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
9B. Benzo(k)fluoranthene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
10B. Bis(2-chloroethoxy)methane			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
11B. Bis(2-chloroethyl)ether			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
12B. Bis(2-chloroisopropyl)ether			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
13B. Bis(2-ethylhexyl)phthalate			x	< 7.24	<0.000					1	ug/l	kg/d	< 6.87	<7.187	1
14B. 4-bromophenyl Phenyl Ether			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
15B. Butyl Benzyl Phthalate			x	< 6.03	<0.000					1	ug/l	kg/d	< 5.73	<5.995	1
16B. 2-Chloronaphthalene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
17B. 4-chlorophenyl Phenyl Ether			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
18B. Chrysene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
19B. Dibenzo(a,h)anthracene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
20B. 1,2-dichlorobenzene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
21B. 1,3-dichlorobenzene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1

Note: Testing for base/neutral compounds is not required for steam electric power plants.

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OUTLET NO.
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V. INTAKE AND EFFLUENT CHARACTERISTICS

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X' a. Testing Required	b. Believed Present	c. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) Concentration	(2)	b. MAXIMUM 30 DAY VALUE (1) Concentration	(2) Mass	c. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses	4. UNITS (specify if blank) a. Concentration	b. Mass	5. INTAKE (optional) a. LONG TERM AVRG. VALUE (1) Concentration	(2) Mass	d. No. of Analyses
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-dichlorobenzene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
23B. 3,3-dichlorobenzidine			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
24B. diethylphthalate			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
25B. Dimethylphthalate			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
26B. di-N-Butylphthalate			x	< 3.62	<0.000					1	ug/l	kg/d	< 3.44	<3.599	1
27B. 2,4-Dinitrotoluene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
28B. 2,6-dinitrotoluene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
29B. di-N-Octyl Phthalate			x	< 6.03	<0.000					1	ug/l	kg/d	< 5.73	<5.995	1
30B. 1,2-Diphenylhydrazine			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
31B. Fluoranthene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
32B. Fluorene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
33B. Hexachlorobenzene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
34B. Hexachlorobutadiene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
35B. Hexachlorocyclopentadiene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
36B. Hexachloroethane			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
37B. Indeno(1,2,3-cd)Pyrene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
38B. Isophorone			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
39B. Naphthalene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
40B. Nitrobenzene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
41B. N-Nitrosodimethylamine			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
42B. N-Nitrosodi-N-Propylamine			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1

Note: Testing for base/neutral compounds is not required for steam electric power plants.

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V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 007

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
44B. Phenanthrene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
45B. Pyrene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
46B. 1,2,4-trichlorobenzene			x	< 2.41	<0.000					1	ug/l	kg/d	< 2.29	<2.396	1
GC/MS FRACTION -- PESTICIDES															
1P. Aldrin			x												
2P. a-BHC			x												
3P. b-BHC			x												
4P. g-BHC			x												
5P. d-BHC			x												
6P. Chlordane			x												
7P. 4,4-DDT			x												
8P. 4,4-DDE			x												
9P. 4,4-DDD			x												
10P. Dieldrin			x												
11P. a-Endosulfan			x												
12P. b-Endosulfan			x												
13P. Endosulfan sulfate			x												
14P. Endrin			x												
15P. Endrin Aldehyde			x												
16P. Heptachlor			x												

Note: Testing for base/neutral compounds is not required for steam electric power plants.
Testing for pesticides is not required for steam electric power plants.

EPA I.D. NUMBER
VAD001894542

V. INTAKE AND EFFLUENT CHARACTERISTICS

OUTLET NO. 007

TABLE C (CONTINUED)

1. POLLUTANT	2. Mark 'X'			3. EFFLUENT							4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. No. of Analyses			a. LONG TERM AVRG. VALUE		d. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		a. Concentration	b. Mass	(1) Concentration	(2) Mass	
GC/MS FRACTION -- PESTICIDES (continued)															
17P. Heptachlor Epoxide			X												
18P. PCB-1242			X												
19P. PCB-1254			X												
20P. PCB-1221			X												
21P. PCB-1232			X												
22P. PCB-1248			X												
23P. PCB-1260			X												
24P. PCB-1016			X												
25P. Toxaphene			X												

Note: Testing for pesticides is not required for steam electric power plants.

EPA Form 2F for Outfalls 502, 901, 907 and 008

EPA ID Number *(copy from Item 1 of Form 1)* VAD001894542

Form Approved. OMB No. 2040-0086

Approval expires 5-31-92

Please print or type in the unshaded areas only

Form 2F NPDES

EPA

United States Environmental Protection Agency
Washington, DC 20460

Application for Permit To Discharge Stormwater Discharges Associated with Industrial Activity

Paperwork Reduction Act Notice

Public recording burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, and any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U. S. Environmental Protection Agency, 401 M St., SW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

I. Outfall Location

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

A. Outfall Number *(list)*	B. Latitude			C. Longitude			D. Receiving Water *(name)*
001/901	37	22	15	80	51	44	New River
004	37	22	23	80	52	02	East River to New River
005/502	37	22	20	80	52	02	East River to New River
006	37	22	28	80	52	07	Adair Run to New River
007/907	37	22	56	80	52	48	New River
008	37	22	35	80	52	19	Unnamed tributary to Adair Run
See Appendix B, Note 1 for further description of stormwater outfalls							

II. Improvements

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

1. Identification of Conditions, Agreements, etc.	2. Affected Outfalls		3. Brief Description of Project	4. Final Compliance Date	
	number	Source of discharge		a. req.	b. proj.
N/A					

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

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfall(s) covered in the application if a topographic map is unavailable) depicting the facility including each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage or disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which receive storm water discharges from the facility.

 Continue on Page 2

Continued from the Front

IV. Narrative Description of Pollutant Sources

A. For each outfall, provide an estimate of the area (include units) of impervious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)	Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)
001	Approx. 1.6 acres	Approx. 14 acres	007	N/A	Approx. 50 acres
004	Approx. 2 acres	Approx. 16.7 acres	005	Approx. 0.74 acre	Approx. 5 acres
006	N/A	Approx. 11 acres	008	Approx. 2.25 acres	Approx. 20.2 acres

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas; and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

See Appendix B, Note 2

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table 2F-1

See Appendix B, Note 1

V. Nonstormwater Discharges

A. I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharges from these outfall(s) are identified in either an accompanying Form 2C or Form 2E application for the outfall.

Name and Official Title *(type or print)*	Signature	Date Signed
John M. McManus Vice President, Environmental Services	John M. McManus	1/9/09

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

On December 10, 2008, Outfalls 502 and 907 were sampled during a qualifying storm event. With the exception of Outfall 006, which is presently not in use, Outfall 008, which is yet to be built due to the project being on-hold indefinitely, and Outfall 901, all other outfalls listed above in Part I.A were sampled under non-storm event conditions, with the resulting data included in accompanying Form 2C. Outfall 901 was not sampled during the December 10, 2008 storm event due to atypical conditions of the discharge as discussed below in Part VI. Outfall 901 will be sampled and the data provided as soon as possible. In the meantime, Pages VII-1 and VII-2 from the previous renewal application are included.

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

On December 3, 2008 at approximately 3:30 p.m., Glen Lyn Plant personnel discovered a sheen and diesel fuel odor at the confluence of the Ginny Hollow tunnel and the New River (Outfall 901). Booms and absorbent pads were deployed and the appropriate notifications made to the VADEQ and NRC. Causes of the sheen and odor were thoroughly investigated and the source could not be identified. The sheen and odor ceased and no source was identified after several days of investigation. Following these investigations for this event, it was believed the source was from above Glen Lyn Plant.

Consequently, on December 10, 2008 at approximately 9:30 a.m., the sheen reappeared at the confluence of the Ginny Hollow tunnel and the New River (Outfall 901). Booms and absorbent pads were again deployed and the appropriate notifications made to the VADEQ and NRC, as well as the West Virginia DEP. Further investigations of the sheen were performed including complete inspection of the Ginny Hollow tunnel. The source was eventually tracked to the fuel oil secondary containment sump. A leaky pipe fitting within the secondary containment was discovered and has been repaired. The resulting fuel oil drained to the secondary containment sump where it was discharged to the Ginny Hollow tunnel during pumping. Although the sump acts as a oil-water separator, the discharge line running up the sump was damaged and allowed fuel oil to be discharged as a result of agitation in the sump. The sump discharge line has been repaired and remediation activities within the secondary containment are ongoing.

 Continue on Page 3

EPA ID Number *(copy from Item I of Form 1)*
VAD001894542

Continued from page 2

VII. Discharge Information

A, B, C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided. Tables VII-A, VII-B, and VII-C are included on separate sheets numbered VII-1 and VII-2.

Potential discharges not covered by analysis – is any toxic pollutant listed in table 2F-2, 2F-3, or 2F-4, 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)* [X] No *(go to Section IX)*

The Company does not specifically use any of the substances identified in Tables 2F-2, 2F-3 or 2F-4 in the generation of electricity. However, some of the pollutants identified in Tables 2F-2 and 2F-3 under Toxic Pollutants and Total Phenol may be present due to their presence in coal and coal combustion by-products.

VIII. 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 past 3 years?

[X] Yes *(list all such pollutants below)* [ ] No *(go to Section IX)*

See Form 2C, Part VII - Biological Toxicity Testing Data.

IX. Contract Analysis Information

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

[X] Yes *(list the name, address, and telephone number of, and pollutants analyzed by each such laboratory or firm below)* [ ] No *(go to Section X)*

A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed
REIC	225 Industrial Park Road Beaver, WV 25813	(304) 255-2500	BOD5, Oil & Grease, COD, NO_3-NO_2, TKN, Metals, Total P
Glen Lyn Plant Laboratory	U. S. Route 460 Glen Lyn, VA 24093	(540) 726-1141	TSS, pH, Flow

X. 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)*	B. Area Code and Phone No.
John M. McManus Vice President, Environmental Services	(614) 716-1268
C. Signature John M McManus	D. Date Signed 1/9/09

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VII. Discharge Information *(Continued from page 3 of Form 2F)*

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.

Pollutant And CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Outfall 901 Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
Oil & Grease	<5 mg/L	N/A			1	Vehicular traffic, runoff from town of Glen
Biological Oxygen Demand (BOD_5)	<2 mg/L				1	Lyn, dust
Chemical Oxygen Demand (COD)	7 mg/L				1	
Total Suspended Solids (TSS)	9.9 mg/L				1	
Total Kjeldahl Nitrogen (TKN)	0.22 mg/L				1	
Nitrate-Nitrite ($NO_3 - NO_2$)	0.54 mg/L				1	
Total Phosphorus	<0.01 mg/L				1	
pH	Minimum 8.2	Maximum	Minimum	Maximum	1	

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant And CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
Dissolved As	<4 µg/L				1	
Dissolved Cu	6 µg/L				1	
Dissolved Ni	6 µg/L				1	
Dissolved Se	8 µg/L				1	
Dissolved Zn	22 µg/L				1	

 Continue on Reverse

Continued from the Front

Part C – List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant And CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	**Outfall 901** Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
N/A						

Part D – Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration Of Storm Event *(in minutes)*	3. Total rainfall During storm event *(in inches)*	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event *(gallons/minute or specify units)*	6. Total flow from rain event *(gallons or specify units)*
9/15/03	195	0.64	288	2,800	546,000

7. Provide a description of the method of flow measurement or estimate.

Calculated using the physical dimensions of the conduit and an empirical estimate of flow rate.

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VII. Discharge Information *(Continued from page 3 of Form 2F)*

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.

Pollutant And CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Outfall 502 Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
Oil & Grease	<2 mg/L	N/A			1	Vehicular traffic, dust
Biological Oxygen Demand (BOD_5)	4 mg/L				1	
Chemical Oxygen Demand (COD)	63 mg/L				1	
Total Suspended Solids (TSS)	94.4 mg/L				1	
Total Kjeldahl Nitrogen (TKN)	<1 mg/L				1	
Nitrate-Nitrite ($NO_3 - NO_2$)	0.12 mg/L				1	
Total Phosphorus	0.09 mg/L				1	
pH	Minimum 7.76	Maximum	Minimum	Maximum	1	

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant And CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
Total Iron	0.607 mg/L				1	
Total Chromium	4.4 µg/L				1	
Total Copper	14.4 µg/L				1	
Total Nickel	<10 µg/L				1	
Total Zinc	0.593 mg/L				1	

 Continue on Reverse

Continued from the Front

Part C – List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant And CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	**Outfall 502** Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
N/A						

Part D – Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration Of Storm Event *(in minutes)*	3. Total rainfall During storm event *(in inches)*	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event *(gallons/minute or specify units)*	6. Total flow from rain event *(gallons or specify units)*
12/10/08	180	0.48	216	9.767	1,800

7. Provide a description of the method of flow measurement or estimate.

Measured using a bucket and stopwatch.

	EPA ID Number *(copy from Item I of Form 1)* VAD001894542	Form Approved. OMB No. 2040-0086 Approval expires 5-31-92

VII. Discharge Information *(Continued from page 3 of Form 2F)*

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.

Pollutant And CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Outfall 907 Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
Oil & Grease	<2 mg/L	N/A			1	Vehicular traffic, coal combustion by-products
Biological Oxygen Demand (BOD_5)	<2 mg/L				1	
Chemical Oxygen Demand (COD)	<4 mg/L				1	
Total Suspended Solids (TSS)	<1 mg/L				1	
Total Kjeldahl Nitrogen (TKN)	<0.85 mg/L				1	
Nitrate-Nitrite ($NO_3 - NO_2$)	0.64 mg/L				1	
Total Phosphorus	0.09 mg/L				1	
pH	Minimum 7.53	Maximum	Minimum	Maximum	1	

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant And CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
Total Iron	0.166 mg/L				1	
Total Chromium	<1 µg/L				1	
Total Copper	<1 µg/L				1	
Total Nickel	<2 µg/L				1	
Total Zinc	5.6 µg/L				1	

 Continue on Reverse

Continued from the Front

Part C – List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant And CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Outfall 907 Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
N/A						

Part D – Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration Of Storm Event *(in minutes)*	3. Total rainfall During storm event *(in inches)*	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event *(gallons/minute or specify units)*	6. Total flow from rain event *(gallons or specify units)*
12/10/08	180	0.48	216	1.2202	220

7. Provide a description of the method of flow measurement or estimate.

Measured using a bucket and stopwatch.

	EPA ID Number *(copy from Item I of Form 1)* VAD001894542	Form Approved. OMB No. 2040-0086 Approval expires 5-31-92

VII. Discharge Information *(Continued from page 3 of Form 2F)*

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.

Pollutant And CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Outfall 008 Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
Oil & Grease		N/A				Vehicular traffic, coal combustion by-products
Biological Oxygen Demand (BOD_5)						
Chemical Oxygen Demand (COD)						
Total Suspended Solids (TSS)						
Total Kjeldahl Nitrogen (TKN)						
Nitrate-Nitrite ($NO_3 - NO_2$)						
Total Phosphorus						
pH	Minimum	Maximum	Minimum	Maximum		

Outfall yet to be built; no sampling data available.

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant And CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
N/A						

Continued from the Front

Part C – List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant And CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	**Outfall 008** Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
N/A						

Part D – Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration Of Storm Event *(in minutes)*	3. Total rainfall During storm event *(in inches)*	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event *(gallons/minute or specify units)*	6. Total flow from rain event *(gallons or specify units)*

7. Provide a description of the method of flow measurement or estimate.

Outfall has yet to be built; no flow measurement data available.

VPDES Permit Application Addendum

VPDES Permit Application Addendum

1. **Entity to whom the permit is to be issued:** Appalachian Power Company
Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.

2. **Is this facility located within city or town boundaries?** [Y] / N

3. **Provide the tax map parcel number for the land where the discharge is located.** 002

4. **For the facility to be covered by this permit, how many acres will be disturbed during the next fine years due to new construction activities?** Approximately 11 acres will be disturbed as a result of the proposed lateral landfill expansion and reduction of the auxiliary fly ash pond.

5. **What is the design average effluent flow of this facility?** 350 MGD
For industrial facilities, provide the max. 30-day average production level, include units:

In addition to the design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? Y / [N]
If "Yes", please identify the other flow tiers (in MGD) or production levels: _____
Please consider the following questions for both the flow tiers and the production levels (if applicable): Do you plan to expand operations during the next five years? Is your facility's design flow considerably greater than your current flow?

6. **Nature of operations generating wastewater:**
Coal-fired steam electric power generation

0 % of flow from domestic connections/sources
Number of private residences to be served by the treatment works:

100 % of flow from non-domestic connections/sources

7. **Mode of discharge:** X Continuous ____ Intermittent ____ Seasonal
Describe frequency and duration of intermittent or seasonal discharges:
_____

8. **Identify the characteristics of the receiving stream at the point just above the facility's discharge point:**
X Permanent stream, never dry
__ Intermittent stream, usually flowing, sometimes dry
__ Ephemeral stream, wet-weather flow, often dry
__ Effluent-dependent stream, usually or always dry without effluent flow
__ Lake or pond at or below the discharge point
__ Other: _____

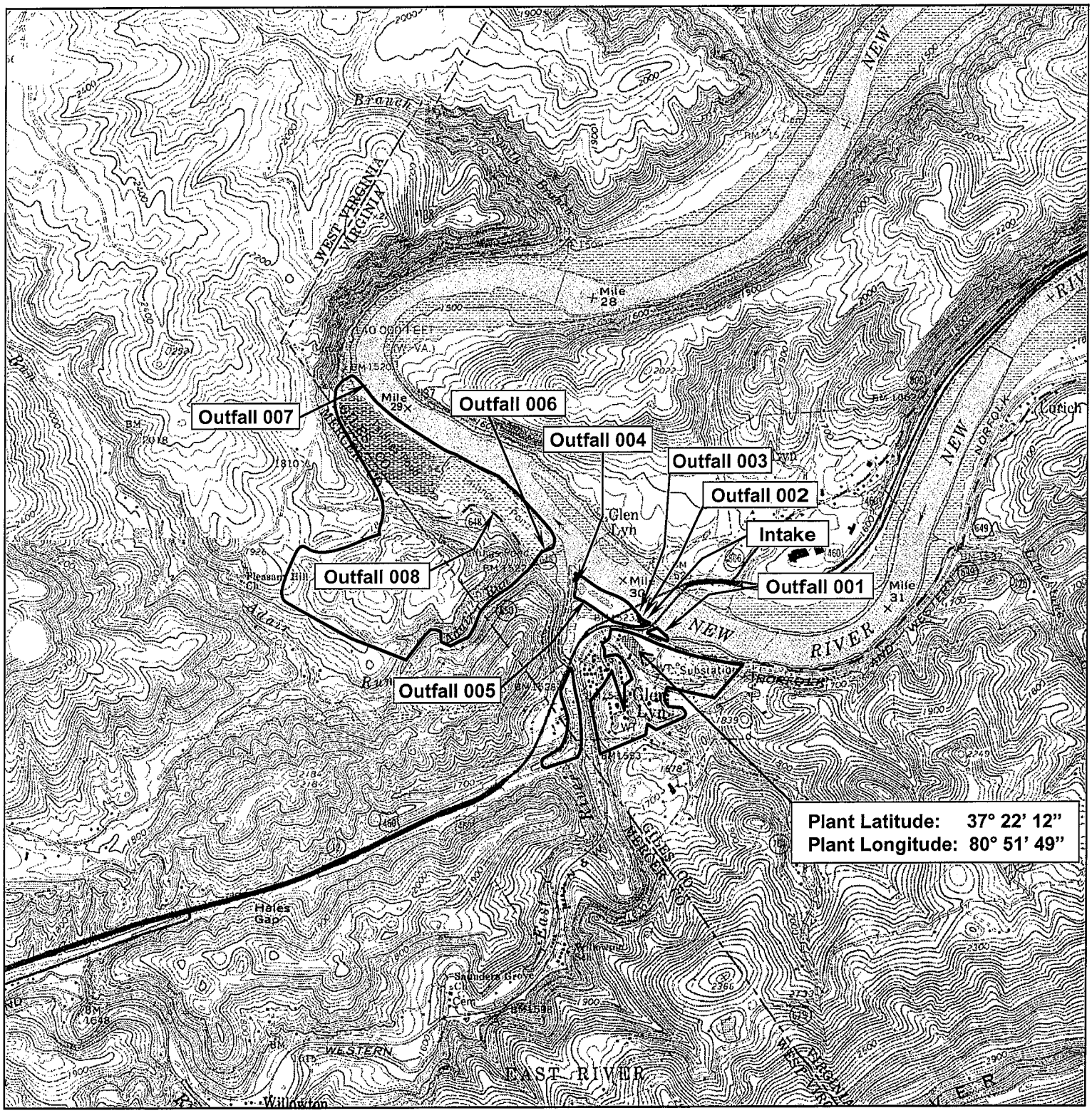
9. **Approval Date(s):**
O & M Manual Submitted to DEQ on October 7, 2004. **Sludge/Solids Management Plan** March 21, 1995

Have there been any changes in your operations or procedures since the above approval dates? Y/[N]

Figure 1

USGS Site Location Map

Figure 1



Narrows, VA / Lerona, Oakville, & Peterson, WVA Quadrangles

USGS Topographic Map

— Plant Property Boundary

0 ½ 1mi

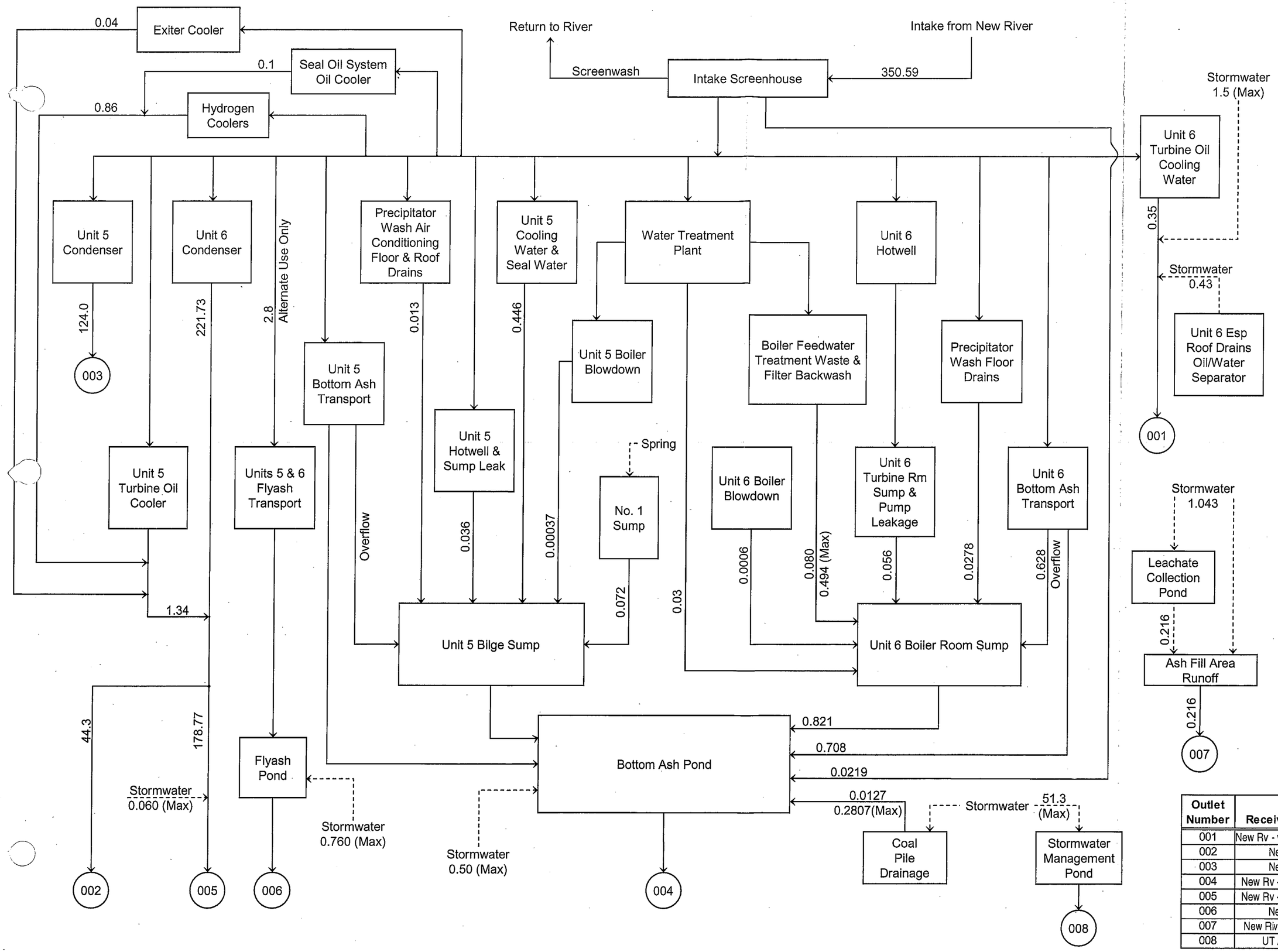
12.31.08

Appalachian Power Company
Glen Lyn Plant
VPDES Permit No. VA0000370
USGS Site Location Map

Water & Ecological Resource Services

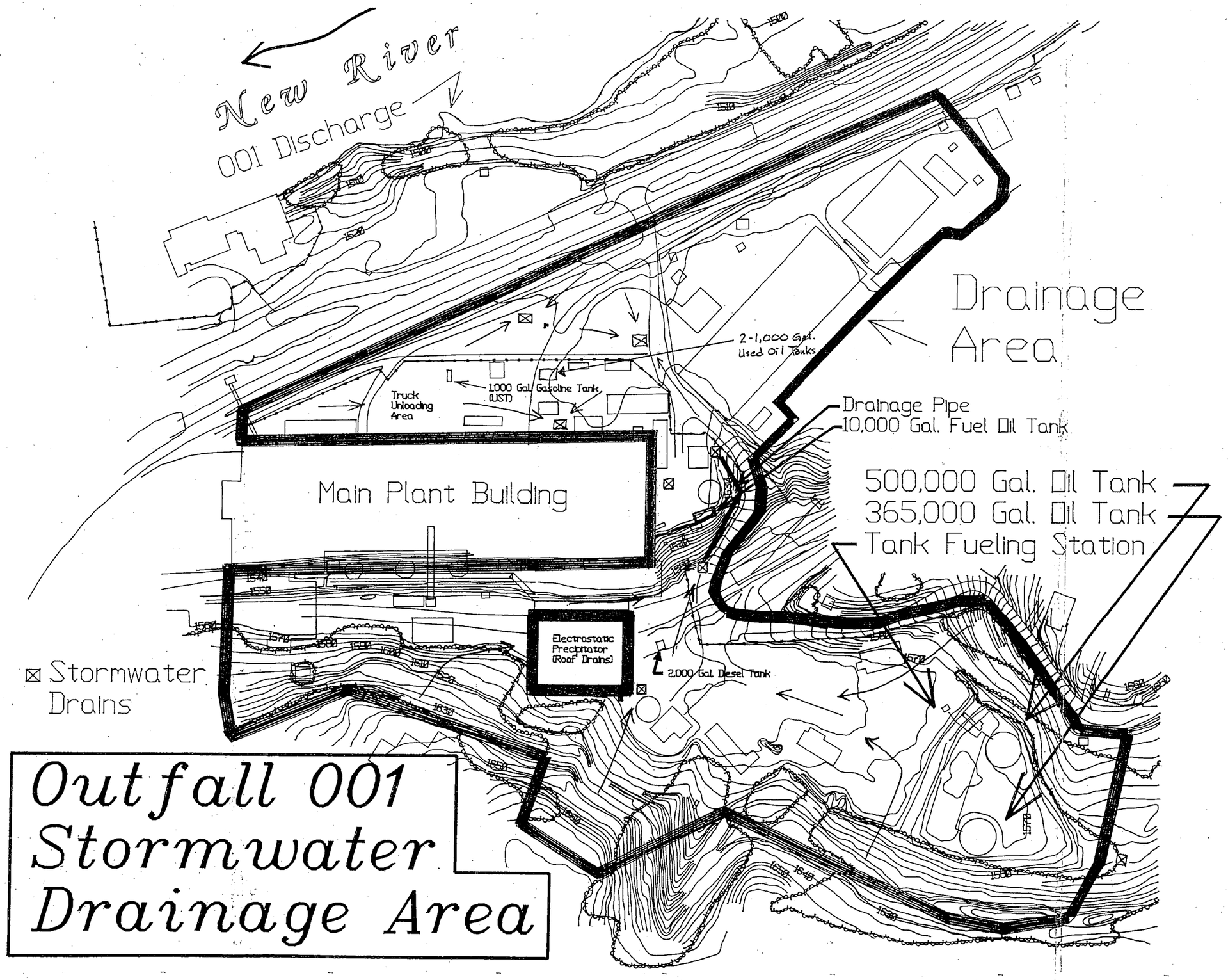
Figure 2

VPDES Water Balance Diagram

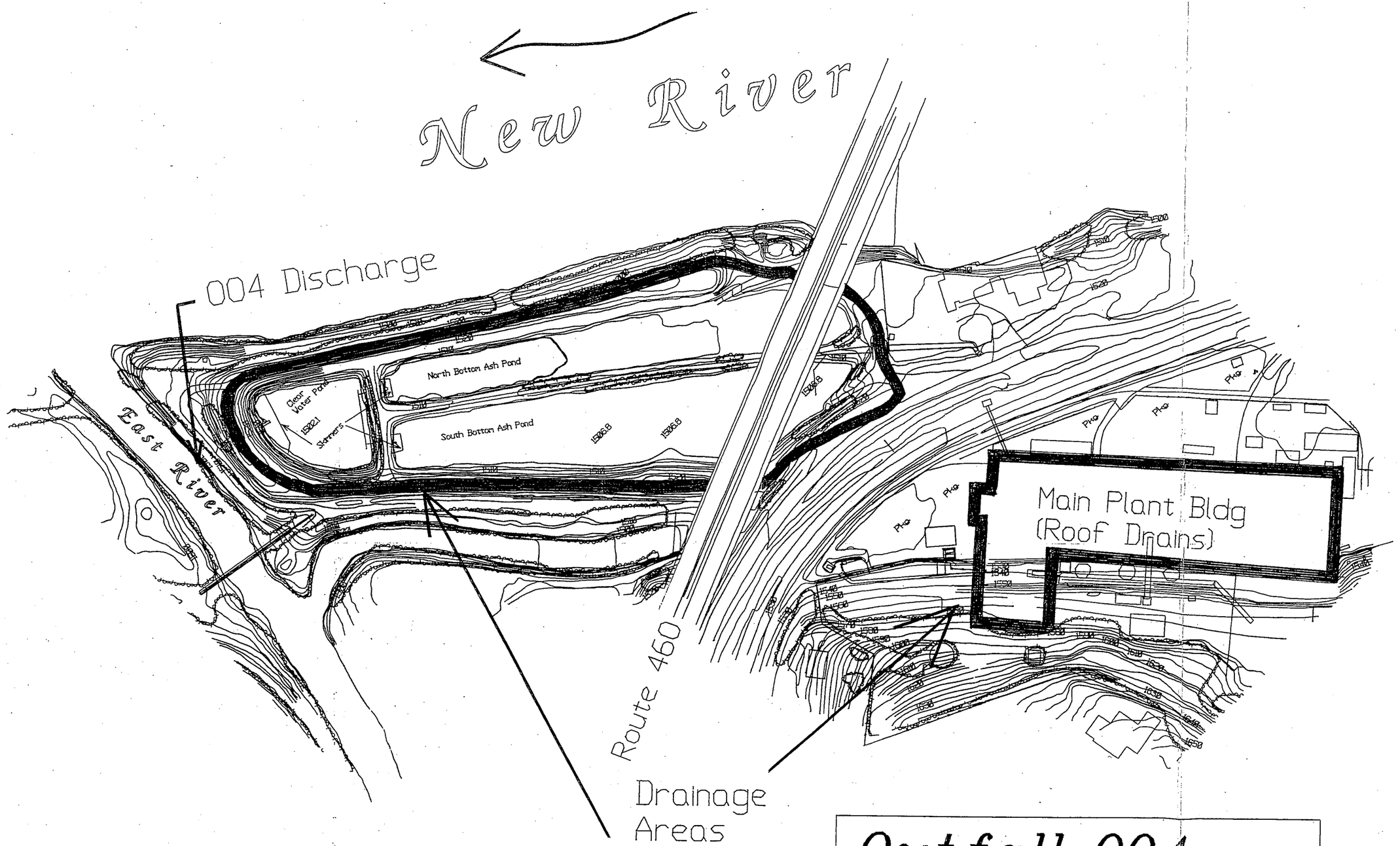


Outlet Number	Receiving Water	Average Flow	Maximum Flow
001	New Rv - via Ginny Hollow	0.35	2.28
002	New River	44.3	
003	New River	124.0	
004	New Rv - via East River	2.98	4.17
005	New Rv - via East River	178.77	178.83
006	New River	0.00396	3.564
007	New River - Intermittant	0.216	1.274
008	UT Adair Run	-	11.63

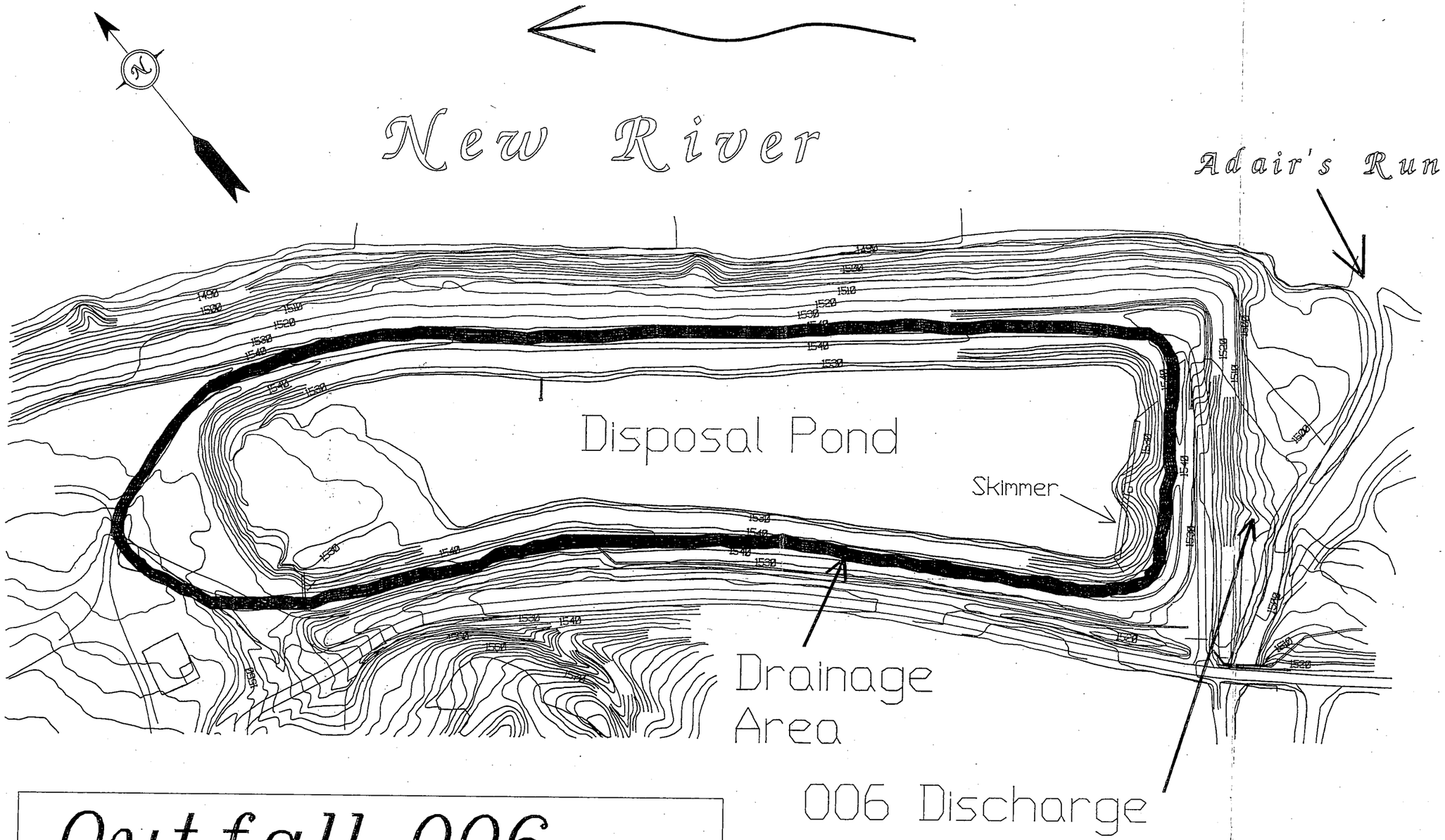
Stormwater Drainage Maps



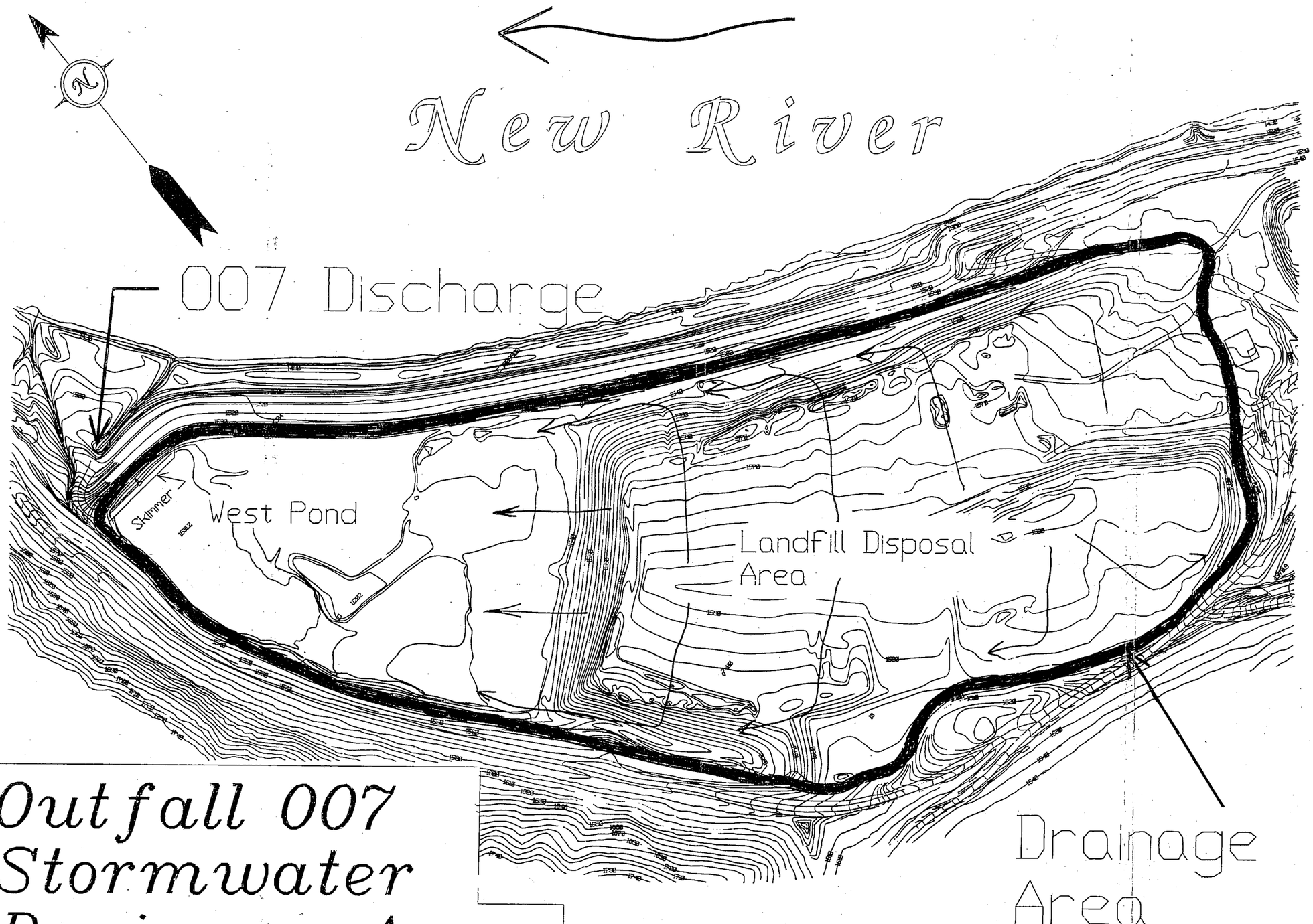
Outfall 001 Stormwater Drainage Area



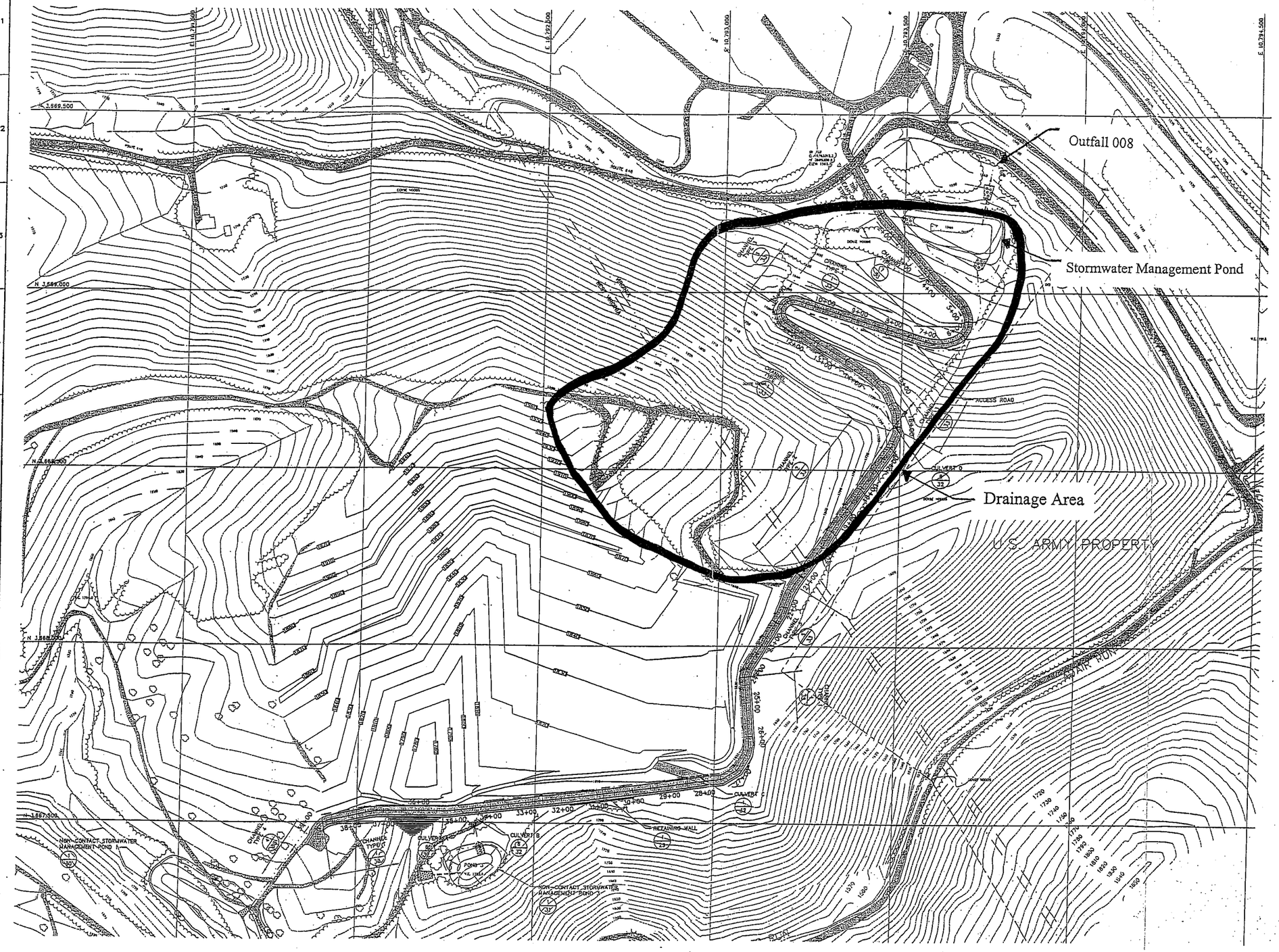
Outfall 004 Stormwater Drainage Area



Outfall 006 Stormwater Drainage Area



Outfall 007 Stormwater Drainage Area


Outfall 008
Stormwater Management Pond
Drainage Area
U.S. ARMY PROPERTY
ACCESS ROAD
NON-CONTACT STORMWATER MANAGEMENT POND 1
NON-CONTACT STORMWATER MANAGEMENT POND 2
RETAINING WALL
CULVERT 8
CULVERT 9
CHANNEL TYPE-D
CHANNEL TYPE-E
CHANNEL TYPE-F
CHANNEL TYPE-G
CHANNEL TYPE-H
CHANNEL TYPE-I
CHANNEL TYPE-J
CHANNEL TYPE-K
CHANNEL TYPE-L
CHANNEL TYPE-M
CHANNEL TYPE-N
CHANNEL TYPE-O
CHANNEL TYPE-P
CHANNEL TYPE-Q
CHANNEL TYPE-R
CHANNEL TYPE-S
CHANNEL TYPE-T
CHANNEL TYPE-U
CHANNEL TYPE-V
CHANNEL TYPE-W
CHANNEL TYPE-X
CHANNEL TYPE-Y
CHANNEL TYPE-Z
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CHANNEL TYPE-AM
CHANNEL TYPE-AN
CHANNEL TYPE-AO
CHANNEL TYPE-AP
CHANNEL TYPE-AQ
CHANNEL TYPE-AR
CHANNEL TYPE-AS
CHANNEL TYPE-AT
CHANNEL TYPE-AU
CHANNEL TYPE-AV
CHANNEL TYPE-AW
CHANNEL TYPE-AX
CHANNEL TYPE-AY
CHANNEL TYPE-AZ
CHANNEL TYPE-BA
CHANNEL TYPE-BB
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CHANNEL TYPE-BM
CHANNEL TYPE-BN
CHANNEL TYPE-BO
CHANNEL TYPE-BP
CHANNEL TYPE-BQ
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CHANNEL TYPE-DV
CHANNEL TYPE-DW
CHANNEL TYPE-DX
CHANNEL TYPE-DY
CHANNEL TYPE-DZ
CHANNEL TYPE-EA
CHANNEL TYPE-EB
CHANNEL TYPE-EC
CHANNEL TYPE-ED
CHANNEL TYPE-EE
CHANNEL TYPE-EF
CHANNEL TYPE-EG
CHANNEL TYPE-EH
CHANNEL TYPE-EI
CHANNEL TYPE-EJ
CHANNEL TYPE-EK
CHANNEL TYPE-EL
CHANNEL TYPE-EM
CHANNEL TYPE-EN
CHANNEL TYPE-EO
CHANNEL TYPE-EP
CHANNEL TYPE-EQ
CHANNEL TYPE-ER
CHANNEL TYPE-ES
CHANNEL TYPE-ET
CHANNEL TYPE-EU
CHANNEL TYPE-EV
CHANNEL TYPE-EW
CHANNEL TYPE-EX
CHANNEL TYPE-EY
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CHANNEL TYPE-FQ
CHANNEL TYPE-FR
CHANNEL TYPE-FS
CHANNEL TYPE-FT
CHANNEL TYPE-FU
CHANNEL TYPE-FV
CHANNEL TYPE-FW
CHANNEL TYPE-FX
CHANNEL TYPE-FY
CHANNEL TYPE-FZ
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CHANNEL TYPE-GB
CHANNEL TYPE-GC
CHANNEL TYPE-GD
CHANNEL TYPE-GE
CHANNEL TYPE-GF
CHANNEL TYPE-GG
CHANNEL TYPE-GH
CHANNEL TYPE-GI
CHANNEL TYPE-GJ
CHANNEL TYPE-GK
CHANNEL TYPE-GL
CHANNEL TYPE-GM
CHANNEL TYPE-GN
CHANNEL TYPE-GO
CHANNEL TYPE-GP
CHANNEL TYPE-GQ
CHANNEL TYPE-GR
CHANNEL TYPE-GS
CHANNEL TYPE-GT
CHANNEL TYPE-GU
CHANNEL TYPE-GV
CHANNEL TYPE-GW
CHANNEL TYPE-GX
CHANNEL TYPE-GY
CHANNEL TYPE-GZ
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CHANNEL TYPE-HC
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CHANNEL TYPE-HN
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CHANNEL TYPE-HP
CHANNEL TYPE-HQ
CHANNEL TYPE-HR
CHANNEL TYPE-HS
CHANNEL TYPE-HT
CHANNEL TYPE-HU
CHANNEL TYPE-HV
CHANNEL TYPE-HW
CHANNEL TYPE-HX
CHANNEL TYPE-HY
CHANNEL TYPE-HZ
CHANNEL TYPE-IA
CHANNEL TYPE-IB
CHANNEL TYPE-IC
CHANNEL TYPE-ID
CHANNEL TYPE-IE
CHANNEL TYPE-IF
CHANNEL TYPE-IG
CHANNEL TYPE-IH
CHANNEL TYPE-II
CHANNEL TYPE-IJ
CHANNEL TYPE-IK
CHANNEL TYPE-IL
CHANNEL TYPE-IM
CHANNEL TYPE-IN
CHANNEL TYPE-IO
CHANNEL TYPE-IP
CHANNEL TYPE-IQ
CHANNEL TYPE-IR
CHANNEL TYPE-IS
CHANNEL TYPE-IT
CHANNEL TYPE-IU
CHANNEL TYPE-IV
CHANNEL TYPE-IW
CHANNEL TYPE-IX
CHANNEL TYPE-IY
CHANNEL TYPE-IZ
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Appendix A

EPA Form 2C Notes

Note 1: ITEM II – ADDITIONAL INFORMATION AND NOTES

The wastewater and stormwater flow values that are listed on Form 2C-II.B and on the VPDES Water Balance Diagram (Figure 2) are representative of facility operation at full load under normal conditions. The generation at this facility is dependent on the consumer demand and availability of operating capacity to satisfy that demand. Limitations on flows could restrict the Company's ability to operate the facility at full load, thereby de-rating the capacity of the facility. These values do not represent maximum design capacity. Factors of redundant equipment and extraordinary operations were not considered in the calculation of the listed flows, since they are not part of normal operation.

Intake Structure

The river water intake structure is located on the west shore of the New River, just upstream of the U.S. Route 460 bridge, approximately 100 yards from the plant. The intake structure consists of two separate operating intakes that supply process and cooling water for Units 5 and 6, respectively. The Unit 6 intake is upstream of the Unit 5 intake, and they are separated by the inoperative intake tunnels that formerly supplied retired generating Units 2, 3, and 4.

Each intake system has a screening system to protect the pumps from debris in the river. Each screening system consists of three components. The first component is the sluice gates that form a skimmer wall at the openings of each intake tunnel. These gates serve to keep floating debris from entering the intake, and can also be used to close the intake tunnels should repairs be necessary. Coarse debris that passes by the skimmer walls is removed by the trash grills, which are a series of vertical bars spaced approximately three inches apart. The trash grills are periodically cleaned using manually controlled trash rakes. The trash rakes physically remove debris from the grills for proper disposal.

The third component of the screening system is a series of vertical traveling screens. Each unit is served by four sets of screens. The screens consist of framed panels (2 ft. x 6 ft. on Unit 5 and 2 ft. x 8 ft. on Unit 6) that hold 3/8-in^2 copper mesh screen. Leaves, twigs, debris, and organisms that pass through the trash grills may be impinged on the screens. The screens are periodically rotated (automatically based on pressure differential across the screen, or manually) and flushed with water using a high-pressure spray to remove impinged material. The spray flushes the dislodged materials into troughs (one for each unit) that carry the materials back to the New River. The Company does not believe that this screen backwash constitutes a discharge or addition of pollutants to navigable waters, as contemplated by the Clean Water Act, but represents a return of natural materials to the river.

During winter months, ice accumulating on the trash grills can reduce the volume of water passing through the screening system. To alleviate this condition, a

portion of the heated water from the discharge side of the cooling water condensers is routed to the front of the intake structure to melt the ice.

Outfall 001

Water discharged via Outfall 001 (Ginny Hollow) consists of once-through cooling water for the Unit 6 turbine oil lubrication system and stormwater runoff. The lubrication system operates at a lower pressure than that of the surrounding cooling water, such that any leaks will normally result in cooling water entering the lubricating system, rather than the reverse.

The stormwater portion of the outfall consists of runoff from the plant yard area southeast of the general office building to the coal yard (see Stormwater Drainage Maps section for depiction of this area). Drainage from the coal yard is collected and pumped to the bottom ash ponds. The Ginny Hollow discharge tunnel, which runs underground along the entire length of the plant property, also conveys stormwater collected from a portion of the Town of Glen Lyn, located uphill and west of Glen Lyn Plant. Glen Lyn Plant's drainage area contribution to Ginny Hollow consists of approximately 14 acres, including 1 acre of paved road, 3 acres of graveled or plant roadways, 4.5 acres of graveled substation, and 5.5 acres of vegetated land. Glen Lyn Plant periodically uses Accord®, Arsenal®, glyphosate-based or other EPA approved herbicides to control vegetation in the drainage area to this outfall.

Outfall 002

The Unit 6 condenser cooling water system utilizes New River water to condense the steam used to drive the turbines involved in generation of electricity. The resulting heated water is released back to the New River through two separate discharges. Approximately 20% of the water is discharged through Outfall 002, located just downstream of the plant intake structure. The remaining 80% is routed through a separate concrete tunnel to an open channel leading to the East River (Outfall 005) just upstream of its confluence with the New River. There are no stormwater contributions to Outfall 002.

Flows routed to these two discharges cannot be measured directly, but have been estimated based on the relative size of the discharge tunnels. These estimates have been used for Discharge Monitoring Reports submitted to date under the plant's VPDES permit.

Outfall 003

Unit 5 condenser cooling water discharges to the New River through Outfall 003 via an underground tunnel located downstream of the plant intake. The entire discharge outlet is under the water surface at the normal pool level of the New

River, making collection of samples difficult. There are no stormwater contributions to this discharge.

Outfall 004

The bottom ash/wastewater treatment pond system consists of two primary treatment ponds discharging to a clearwater pond, which in turn discharges to the East River via Outfall 004, located just upstream of the East River confluence with the New River. The ponds are located northwest of the plant, with a portion of the ponds located underneath the U. S. Route 460 bridge which crosses the New River. Only one primary bottom ash/wastewater treatment pond is in service at any given time.

General plant wastewater, including those waste streams specifically classified as low-volume wastes in the Steam Electric Effluent Guidelines (40 CFR Part 423), stormwater, and bottom ash are routed to one of the primary treatment ponds for settling and self-neutralization. The supernatant from the ponds decant to the clearwater pond for final clarification before being discharged to the East River. A skimmer is located at the overflow structure to retain any floating solids or other material. Because of the varying settle-ability characteristics of the ash, the facility may add a polymer to aid settling. Polymer additions are performed only on an 'as-needed' basis. Settled material in each primary treatment pond is excavated while the other pond is in service. The excavated bottom ash is beneficially reused or disposed in the on-site coal combustion by-product landfill. The dikes of the ponds are sprayed annually in the spring with Escort® herbicide or other EPA approved herbicide to control woody stem vegetation.

Both primary treatment ponds are 1.5 acres in size, and have maximum operating depths of 8 feet. The retention time within a pond at full load operating conditions is approximately 1.5 days. When the volume of settled materials in the pond reaches a level where the pond no longer provides adequate retention time to allow sufficient settling, the pond is removed from service, and the adjacent pond is placed into service. The out-of-service pond is allowed to remain quiescent for a period of time to allow further settling, and is then dewatered to the in-service pond using a portable pump. Depending on the coal quality and the plant production schedule, a primary treatment pond remains in service approximately 3 months.

Additional flow to the pond system includes stormwater runoff from the roof drains of the main generation building, roof drains from the Unit 5 electrostatic precipitator, surface runoff from land adjacent to the ponds and access road, and water collected at the coal yard. Coal yard runoff is collected using a french drain system, perimeter drain system, collection sump, and pumping system with automatic controls triggered by the water level in the sump. The total area of stormwater drainage includes 16.7 acres (see Stormwater Drainage Maps section for depiction of this area). This area includes 7 acres for the coal yard, 2.7 acres

of roof drains, 3.4 acres of adjacent plant property, and 3.6 acres of direct precipitation to the ponds. Additionally, as discussed in Appendix B, stormwater runoff from the area designated as Outfall 502 has been diverted to the bottom ash/wastewater treatment ponds. All stormwater from this drainage area up to the 10-year, 24-hour storm will drain to these ponds. Also, as discussed in Appendix B, the secondary containment sump for the 500,000 and 365,000 gallon fuel oil tanks have been diverted to the bottom ash/wastewater treatment ponds. Finally, a small portion of the drainage off the U.S. Route 460 bridge also drains into the bottom ash/wastewater treatment ponds, but this runoff is negligible compared to the over flow from Outfall 004.

Outfall 005

The Unit 6 condenser cooling water system utilizes New River water to condense the steam used to drive the turbines that generate electricity. The resulting heated water is released back to the New River through two separate discharges. Approximately 20% of the flow is discharged through Outfall 002. The remaining 80% is routed through a separate underground tunnel into a manmade channel that flows into the East River via Outfall 005, located just upstream of the New River confluence. Flows routed to these two discharges cannot be measured directly, but have been estimated based on the relative sizes of the discharge tunnels. These estimates have been used for Discharge Monitoring Reports submitted to date under the plant's VPDES permit.

Stormwater contributions to this outfall include excess runoff from approximately a 10-year, 24-hour storm event as discussed in Appendix B for Outfall 502.

Glen Lyn Plant periodically uses Accord®, Arsenal®, glyphosate-based or other EPA approved herbicides to control vegetation in the drainage area to this outfall.

Outfall 006

The auxiliary fly ash pond associated with Outfall 006 is used as an alternate and backup to the dry ash handling system and landfill disposal. The wet system is infrequently used when the dry system experiences an outage. The auxiliary fly ash pond is currently approximately 7 acres in size, with a maximum operating depth of 32 feet. The existing weir directs flow from the pond to the discharge structure leading to Outfall 006 which discharges to Adair Run. Except for rainfall and the periodic use for sluicing ash while the dry ash system has an outage, there are no flow sources to this pond. The current operating level within the pond is 15 feet below the skimmer elevation. Consequently, the potential for a discharge through the weir is negligible and has not occurred over the current permit term. There is a discharge averaging about 520 gallons/day at the outfall that is thought to be groundwater or seepage from the dike. The water level within the pond is below the elevation of the discharge piping. Stormwater drainage for this outfall is currently approximately 11 acres. The inboard dikes of the pond are

sprayed annually in the spring with Escort® herbicide or other EPA approved herbicide to control woody stem vegetation.

Approximately 5 acres of the auxiliary fly ash pond is proposed for lateral expansion of the existing coal combustion by-products landfill. This will result in approximately 2 acres of the auxiliary fly ash pond remaining and will be utilized as such whenever the dry fly ash handling system is inoperable. This will require the reduced auxiliary fly ash to be rebuilt, including a liner system. Additionally, the outlet structure from the pond has been redesigned and configured to discharge to the New River, a much higher flow receiving stream than Adair Run. The location of relocated Outfall 006 will be at Latitude: 37°22'31.5" / Longitude: 80°52'5". If and when the reconfigured auxiliary fly ash pond is utilized, the pond will be allowed to drain from the surface via a faircloth skimmer to a manhole on the outside of the dike. The manhole will be valved allowing for the sampling prior to being discharged to the New River. Once the pond is dewatered, the fly ash will be dredged and disposed of in the adjacent landfill.

During construction of the lateral landfill expansion and reduced fly ash pond, stormwater collected in lower end of the auxiliary fly ash pond will be manually pumped to the Outfall 007 collection pond. Leachate collected in the lateral landfill expansion will be collected in a sump between the landfill expansion and reduced auxiliary fly ash pond, and pump to the Outfall 007 collection pond. It is not anticipated that the effluent flow or quality discharged via relocated Outfall 006 or Outfall 007 will change as a result of the proposed lateral landfill expansion and reduction of the auxiliary fly ash pond. The effluent flow from Outfall 006 is projected to remain at approximately 2.8 MGD, if discharging. However, such operation of the auxiliary fly ash pond would likely require polymer addition on an 'as needed' basis similar to what is used for the bottom ash ponds to assist the settling of the ash in order to meet the 30 mg/L monthly average and 100 mg/L daily maximum for total suspended solids. Details of the proposed reduction of the auxiliary fly ash pond, liner system, new outlet structure and location of relocated Outfall 006 are shown on Drawings 56-30255-04-B, 56-30255-7-B and 56-30255-10-B provided at the end of this appendix. Approval for expansion of the landfill is currently being pursued through the Solid Waste Division at DEQ.

Outfall 007

The ash collected in the electrostatic precipitators is removed from the plant as a dry product and transported by truck to the coal combustion by-product landfill at the plant, if not sold or beneficially reused in an approved manner. The landfill is located in the area between the auxiliary fly ash pond and the Outfall 007 runoff pond (see Stormwater Drainage Maps section for depiction of this area). The Outfall 007 runoff pond is used to collect stormwater runoff from the around landfill, as well as contact water from the coal combustion by-product landfill from the leachate pond.

Water that percolates through the ash fill, groundwater intercepts, and stormwater that comes into direct contact with the active landfill areas is collected by the leachate pond. Water is retained in this pond until transferred manually by a portable pump on an as-needed basis to the adjacent (northwest) runoff collection pond for additional settling prior to discharge through Outfall 007 to the New River. Stormwater that falls on the portion of the landfill that does not come into direct contact with the ash is collected in crown ditches and transferred directly to the runoff collection pond. The quality and quantity of effluent from this outfall is not expected to change as a result of the proposed lateral landfill expansion as discussed above.

Outfall 007 will also discharge treated leachate from the proposed Adair Run Landfill, if constructed. This facility will be located primarily in West Virginia and is permitted under SW/NPDES Permit WV0116114 issued by the West Virginia Department of Environmental Protection. The Adair Run Landfill is on-hold indefinitely and no construction has taken place. However, if constructed, leachate and contact runoff from the Adair Run Landfill will be collected in a sump and gravity drained through a 12-inch diameter pipe to the existing landfill leachate pond, where it will receive treatment before discharging through Outfall 007. The estimated daily leachate flow will range from 6,385 gpd (during the short period prior to placement of any ash) to 715 gpd during the majority of the construction of the facility. The life of the Adair Run landfill is projected to be 23 years based on ash production estimates.

The landfill drainage area contains approximately 50 acres, of which about 10 acres is occupied by the two ponds. Glen Lyn Plant periodically uses Accord®, Arsenal®, glyphosate-based or other EPA approved herbicides to control vegetation in the drainage area to this outfall.

Outfall 008

The discharge from Outfall 008, if constructed, will consist solely of non-contact runoff from a stormwater management pond that will be developed as part of the proposed Adair Run Landfill. The Adair Run Landfill will be located primarily in West Virginia and will have two other stormwater management ponds discharging to waters of the State of West Virginia. The stormwater management pond that will discharge through Outfall 008 will collect runoff from the northeast side of the landfill, including parts of the access road (see Stormwater Drainage Maps section for depiction of this area). During periods of below-average rainfall or drought, it is possible that Outfall 008 may not discharge. It is impractical to estimate the frequency or length of discharge periods, as the Company has no control over weather-related factors. As stated elsewhere in this application, the Adair Run Landfill has been postponed indefinitely.

Outfall 999

In the current VPDES permit, Glen Lyn Plant has an individual reporting requirement for the cooling water heat discharge at each cooling water source, with a combined heat discharge limit from all the cooling water outfalls reported as Outfall 999. There is no physical discharge for this outfall, but a reporting requirement and maximum plant limit of 9.48 x 10^8 BTU/hr. The Company requests that this facility limitation be maintained in lieu of individual outfall limitations.

Note 2: ITEM VIII – OUTSIDE LABORATORY POLLUTANT ANALYSIS

Name	Address	Telephone	Pollutants Analyzed
REI Consultants, Inc.	225 Industrial Park Drive Beaver, WV 25813	304-255-2500	Part A: All parameters except Flow, TSS, Temperature, pH and TCR. Part B: All parameters except radioactivity. Part C: Metals, Cyanide, Volatile Compounds, Acid Compounds, and Base/Neutral Compounds.
Underwriters Laboratories	110 South Hill Street South Bend, IN 46617	574-233-4777	Part B: Radioactivity.
Appalachian Power Company Glen Lyn Plant	U.S. Route 460 Glen Lyn, VA 24093	540-726-1141	Part A: Flow, TSS, Temperature, pH and TCR.

Note 3: RENEWAL OF 316(a) VARIANCE

The original Clean Water Act Section 316(a) variance was granted to Glen Lyn Plant by the Virginia State Water Control Board (SWCB) on December 22, 1977. Conditions under which this variance request was granted have not changed since that time. As a special condition in the 1989 VPDES permit, the SWCB requested the Company to provide supplementary information regarding the 316(a) variance continuation to verify that plant operating conditions and load factors remained essentially unchanged, that there were no physical changes to plant discharges that could interact with the thermal discharges, and that there were no changes to the biotic community that would impact previous 316(a) determinations. This information was provided, and the 316(a) variance has been continued. Since that time, Outfall 501 (sewage treatment plant) has been removed, and the volume of cooling water at Outfall 001 was reduced by elimination of cooling water to transformers in the main switchyard. These changes did not measurably impact the thermal discharges from the plant's steam condensers. The Company requests that the Section 316(a) variance be continued in the next VPDES permit.

Note 4: RENEWAL OF 316(b) VARIANCE

Glen Lyn Plant's variance under Clean Water Act Section 316(b) was granted by the Virginia State Water Control Board on October 25, 1978. The Company requests that this variance be continued through the term of the next VPDES permit.

Note 5: REQUEST FOR REDUCED MONITORING FREQUENCY

Outfalls 004 and 007

Under the current VPDES permit, toxicity testing is performed once per permit term on Outfalls 004 and 007. All toxicity test results for these two outfalls over the past 15 years are listed below. These results demonstrate an almost perfect record of no significant toxicity over the past three permit terms, indicating the consistently high quality of these two discharges. Based on this record, the Company requests that the toxicity testing frequency for these two discharges be eliminated from the next permit.

Test Date	Test Organism	Chronic Result (NOEC)	Acute Result (LC_{50})
Outfall 004			
September 1994	*Ceriodaphnia dubia*	100%	>100%
November 1995	*C. dubia*	100%	>100%
September 1996	*C. dubia*	Invalid	Invalid
July 1997	*C. dubia*	100%	>100%
August 1997	*C. dubia*	100%	>100%
September 1998	*C. dubia*	100%	>100%
February 1999	*C. dubia*	--	>100%
August 1999	*C. dubia*	100%	>100%
September 2000	*C. dubia*	100%	>100%
May 2001	*C. dubia*	100%	>100%
August 2002	*C. dubia*	100%	>100%
July 2003	*C. dubia*	100%	>100%
December 2007	*C. dubia*	8%*	>72%
Outfall 007			
October 1994	*C. dubia*	--	>100%
	Pimephales promelas	--	>100%
May 1995	*C. dubia*	--	>100%
	P. promelas	--	>100%
December 1995	*C. dubia*	--	>100%
	P. promelas	--	>100%
January 1997	*C. dubia*	--	Invalid
	P. promelas	--	Invalid
July 1997	*C. dubia*	--	>100%
	P. promelas	--	38%*
January 1998	*C. dubia*	--	>100%
March 1998	*P. promelas*	--	>100%
September 1998	*C. dubia*	--	>100%
	P. promelas	--	>100%

February 1999	*P. promelas*	--	>100%
August 1999	*C. dubia*	--	>100%
	P. promelas	--	>100%
September 2000	*C. dubia*	--	>100%
	P. promelas	--	>100%
May 2001	*C. dubia*	--	>100%
	P. promelas	--	>100%
October 2002	*C. dubia*	--	>100%
	P. promelas	--	>100%
September 2003	*C. dubia*	--	>100%
	P. promelas	--	>100%
December 2007	*C. dubia*	--	>100%
	P. promelas	--	--

*Questionable test based on non-linear dose-response relationship.

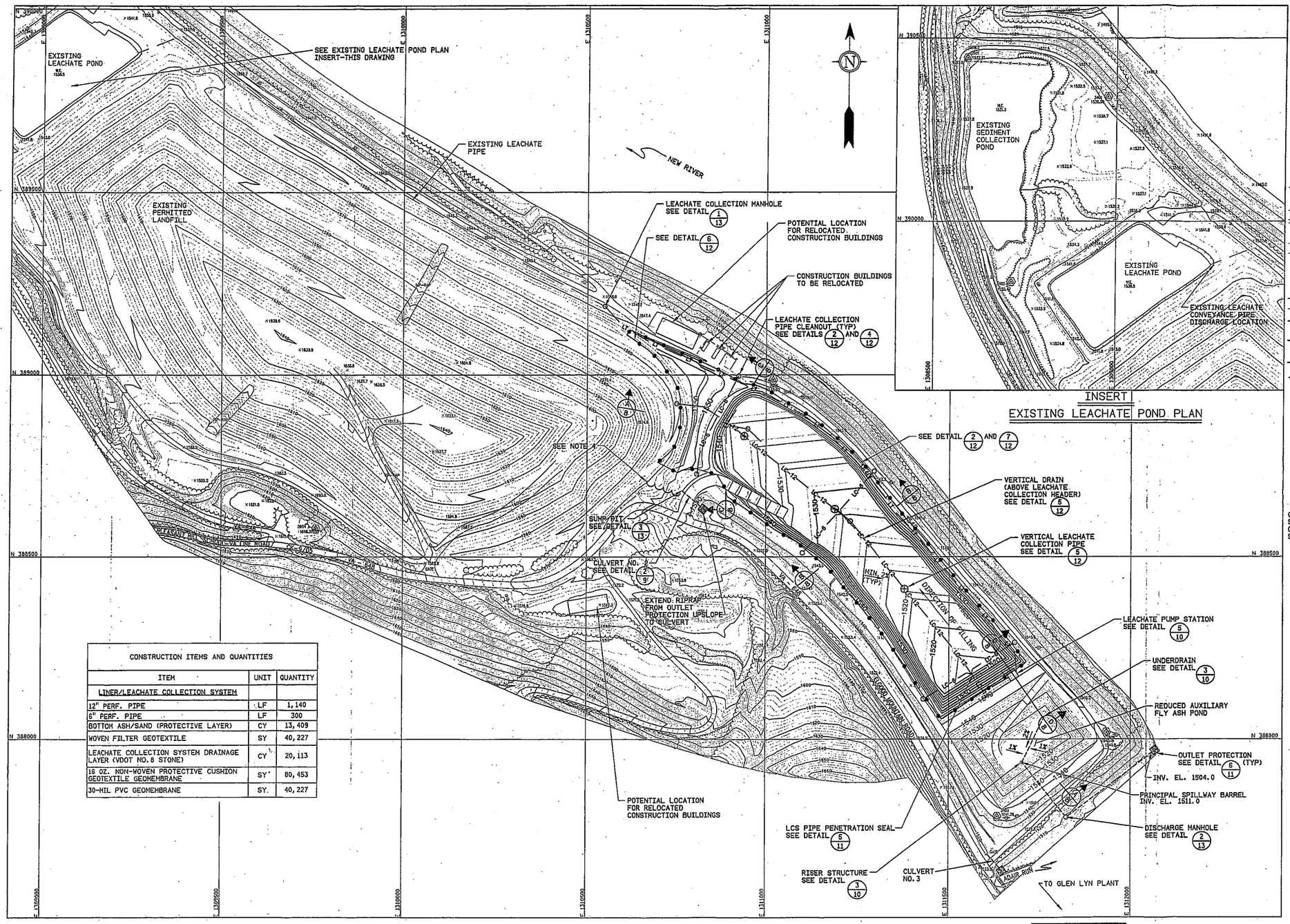
Outfall 502

Under the current VPDES permit, toxicity testing and monitoring for flow, total suspended solids and total recoverable zinc is performed annually on Outfall 502. As discussed in Appendix B for Outfall 502, no untreated stormwater discharges are expected from Outfall 502 up to the 10-year, 24-hour storm event. Since up to the subject storm frequency will be diverted to the bottom ash/wastewater treatment ponds which eventually discharge via Outfall 004, the Company requests that the toxicity testing and monitoring frequency for this discharge be eliminated during the next permit term since discharges via Outfall 502 are not expected frequently. The Company requests that Outfall 502 remain in the reissued permit without monitoring requirements as an emergency stormwater outfall that will intermittently discharge if the specified storm is exceeded.

Outfall 901

Under the current VPDES permit, monitoring for flow, total recoverable nickel and total recoverable zinc is performed quarterly and annual toxicity testing is required on Outfall 901. Due to the low presence of total recoverable nickel in this discharge (near or below the detection limit) and all LC_{50} values for the performed 48-hour acute tests on *Pimephales promelas* and *Ceriodaphnia dubia* resulting in >100% effluent (see Form 2C, Part VII for results), the Company requests elimination of monitoring for total recoverable nickel and the toxicity testing during the next permit term. Additionally, due to the limited availability of staff at Glen Lyn Plant, the Company requests the monitoring frequency for flow and total recoverable zinc at Outfall 901 be reduced to semiannually in the reissued permit.

DWG. NO. 56-30255-04



INSERT

EXISTING LEACHATE POND PLAN

NOTES

1. FOR LINER DETAILS, REFER TO DRAWING No. 56-30255-12.
2. LEACHATE WILL BE PUMPED VIA LEACHATE TRANSPORT PIPE, THEN GRAVITY DRAIN TO EXISTING LEACHATE POND.
3. FOR LIMIT OF WASTE MANAGEMENT, REFER TO DRAWING NO. 56-30255-06.
4. A SINGLE LINE OF CONIFEROUS TREES WILL BE PLANTED AS SHOWN ON THE PLAN VIEW TO PROVIDE SCREENING THROUGHOUT THE YEAR PER REGULATION 9 VAC 20-80-270. A. 4. C. 1.

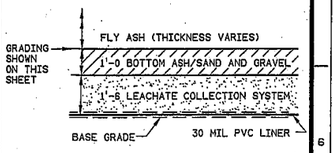
LEGEND

EXISTING

- 1000 — MAJOR CONTOURS
- MINOR CONTOURS
- X — X — FENCE
- ROAD
- STRUCTURE
- TREE LINE
- PROPERTY LINE
- UTILITY POLE
- 1922.8 SPOT ELEVATION

PROPOSED

- 1550 — MAJOR CONTOURS
- MINOR CONTOUR
- LT — LT — LEACHATE TRANSPORT PIPE
- LC-12 — LC-12 — LEACHATE COLLECTION SYSTEM PIPE (WITH PIPE DIAMETER IN INCHES)
- LEACHATE COLLECTION PIPE CLEANOUT
- LIMIT OF PVC LINER
- VERTICAL LEACHATE COLLECTION PIPE
- B/8 SECTION IDENTIFICATION LETTER AND SECTION CUTTING PLANE LOCATION
- DRAWING NUMBER WHERE SECTION APPEARS
- PROPOSED TREE LINE



CONSTRUCTION ITEMS AND QUANTITIES

ITEM	UNIT	QUANTITY
LINER/LEACHATE COLLECTION SYSTEM		
12" PERF. PIPE	LF	1,140
6" PERF. PIPE	LF	300
BOTTOM ASH/SAND (PROTECTIVE LAYER)	CY	13,409
WOVEN FILTER GEOTEXTILE	SY	40,227
LEACHATE COLLECTION SYSTEM DRAINAGE LAYER (VDOT NO.8 STONE)	CY	20,113
16 OZ. NON-WOVEN PROTECTIVE CUSHION GEOTEXTILE GEOMEMBRANE	SY	80,453
30-MIL PVC GEOMEMBRANE	SY.	40,227

MAP REFERENCE:
MAPPING PREPARED BY AIR SURVEY PHOTOGRAMMETRIC MAPPING SERVICES 45180 BUSINESS COURT, DULLES, VA

MAPPING COMPILED BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATED 03-04-06
GRID BASED ON VIRGINIA STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD 1927.
VERTICAL DATUM BASED ON NGVD 1929.

SCALE 1"=100'
100 0 100 200
CONTOUR INTERVAL 2 FEET

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — RESCHA YODMANI — PE-No. 066616

DATE	NO.	DESCRIPTION	APPD.
1/11/10	B	PER VA DEQ 7/2/08 1ST PART B PERMIT APPLICATION REVIEW	GFB
4/24/07	A	ISSUED FOR PERMIT	NRL

REVISIONS

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APPALACHIAN POWER CO.

GLEN LYN PLANT

GLEN LYN, VIRGINIA

GLEN LYN LANDFILL LATERAL EXPANSION

MODIFICATION PLAN

DWG. NO. 56-30255-04-B

gal consultants — PITTSBURGH OFFICE 385 EAST WATERFRONT DRIVE, HOMESTEAD, PA 15120-5005

DRAWN EJM — CHECKED RH — APPROVED MBL — DATE 8/24/07
TASK NO. 00
PROJECT NO./DASH NO. 2005-540-20
DRAWING NO. E-M004
SCALE: 1"=100' SHT. NO. 4 OF 18

SCALE: CSI: CH: ENGR.: PROJ. ENGR.: DATE: — APPROVED BY

CIVIL ENGINEERING DIVISION

AEP AMERICAN ELECTRIC POWER — 1 RIVERSIDE PLAZA COLUMBUS, OH 43215

IGS1092
P:\PIT\2005\2005-540\D20\CADD\Glen Lyn\dwg\2005-540-20-00-E-M004.dwg

SYSTEM DATE-DD-MMM-YYYY
SYSTEM TIME-HOUR:MINUTE
16th PLB-DET

DWG NO. 56-30255-07

EXISTING ACCESS GATE
EXISTING SLOPE DRAIN C-2
EXISTING PERMITTED LANDFILL
EXISTING SLOPE DRAIN C-1
EXISTING SLOPE DRAIN C-3
EXISTING ACCESS GATE
EXISTING LEACHATE POND
EXISTING SEDIMENT POND
EXISTING LEACHATE CONVEYANCE PIPE DISCHARGE LOCATION
EXISTING LEACHATE PIPE
CULVERT NO. 3
EXISTING ACCESS GATE
SLOPE DRAIN 3
DISCHARGE MANHOLE
CULVERT NO. 2
PCC-3
PCC-2
PCC-1
ELGOOD MOUNTAIN ROAD
CULVERT NO. 1
ADAMS RUN
NEW RIVER
LEACHATE COLLECTION MANHOLE
TO GLEN LYN PLANT
AREA USED FOR CLOSURE COST ESTIMATE
PROPOSED LANDFILL LATERAL EXPANSION
LEACHATE PUMP STATION
NEW RIVER DISCHARGE PIPE
REDUCED AUXILIARY FLY ASH POND

N 307500
N 306500
N 305500
N 304500
N 303500
E 1309000
E 1309500
E 1310000
E 1310500
E 1311000
E 1311500

LEGEND

1550	MAJOR CONTOURS
	MINOR CONTOURS
x x	FENCE
	ROAD
	STRUCTURE
	TREE LINE
	UTILITY POLE
x 1952.8	SPOT ELEVATION
	AREA USED FOR CLOSURE COST ESTIMATE
LT LT	LEACHATE TRANSPORT PIPE
LC-12 LC-12	LEACHATE COLLECTION SYSTEM PIPE (WITH PIPE DIAMETER IN INCHES)
PCC	PERMANENT COLLECTION CHANNEL
⊕	VERTICAL LEACHATE COLLECTION PIPE

MAP REFERENCE:
MAPPING PREPARED BY AIR SURVEY
PHOTOGRAMMETRIC MAPPING SERVICES
45100 BUSINESS COURT, DULLES, VA

MAPPING COMPILED BY PHOTOGRAMMETRIC
METHODS FROM AERIAL PHOTOGRAPHY DATED 03-04-06
GRID BASED ON VIRGINIA STATE PLANE
COORDINATE SYSTEM SOUTH ZONE NAD 1927.
VERTICAL DATUM BASED ON NGVD 1929.

SCALE 1"=100'
100 0 100 200
CONTOUR INTERVAL 2 FEET

COMMONWEALTH OF VIRGINIA
PREECHA YOONANE
Lic. No. 029018
PROFESSIONAL ENGINEER

DATE	NO.	DESCRIPTION	APPD.
5/21/08	B	PER VA DEQ 7/2/08 1ST PART B PERMIT APPLICATION REVIEW	GFB
8/24/07	A	ISSUED FOR PERMIT	MRL

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APPALACHIAN POWER CO.

GLEN LYN PLANT

GLEN LYN, VIRGINIA

GLEN LYN LANDFILL LATERAL EXPANSION

CLOSURE PLAN

DWG. NO. 56-30255-07-B

SCALE:
DR: EJM
CK: RH
ENGR.
PROJ. ENGR.
DATE:
APPROVED BY

CIVIL ENGINEERING DIVISION

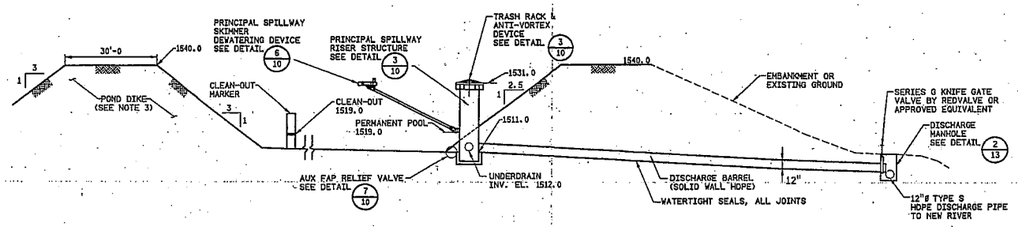
gai consultants
PITTSBURGH OFFICE 385 EAST WATERFRONT DRIVE, HOMESTEAD, PA 15120-5005

DRAWN EJM
CHECKED RH
APPROVED MRL
DATE 8/24/07
TASK NO. 00
PROJECT NO./DASH NO. 2005-540-20
DRAWING NO. E-M007
SCALE 1"=100' SHT. NO. 7 OF 15

AMERICAN ELECTRIC POWER
1 RIVERSIDE PLAZA
COLUMBUS, OH 43215

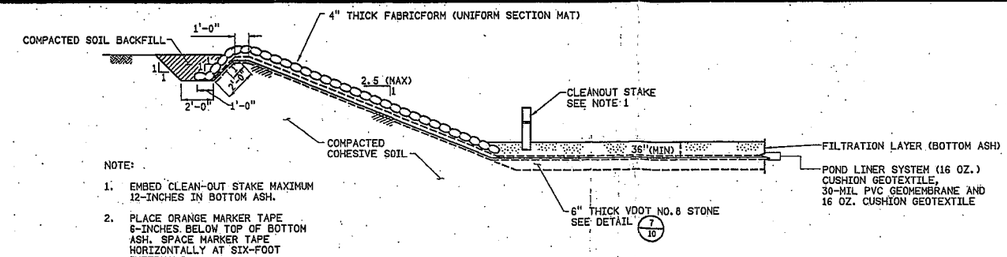
SYSTEM DATE-DD-MMM-YYYY
SYSTEM TIME-HOUR:MINUTE
IBM PLOT CFG

DWG NO. 56-30255-10



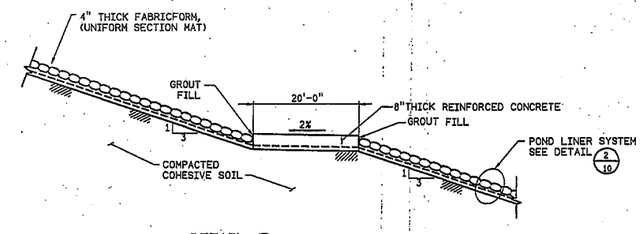
NOTES:
1. A CLEAN-OUT MARKER SHALL BE PLACED NEAR THE CENTER OF THE AUX FAP. ACCUMULATED SOLIDS SHALL BE REMOVED BEFORE IT HAS REACHED THE CLEAN-OUT ELEVATION OF 1519.0 ON THE MARKER.
2. TYPE S HDPE PIPE HAS A SMOOTH INTERIOR AND A CORRUGATED EXTERIOR.
3. THE CORE OF THE POND DIKE SHALL BE CONSTRUCTED OF EITHER COMPACTED SOIL FILL, OR FLY ASH STRUCTURAL FILL. IF THE CORE IS CONSTRUCTED OF FLY ASH STRUCTURAL FILL, THEN 1'-6 OF COMPACTED SOIL FILL SHALL BE PLACED AS A FINAL COVER OVER THE FLY ASH AS SHOWN ON SECTION D OF DRAWING M008.

DETAIL 1/3
REDUCED AUXILIARY FLY ASH
POND TYPICAL SECTION
SCALE: N.T.S.

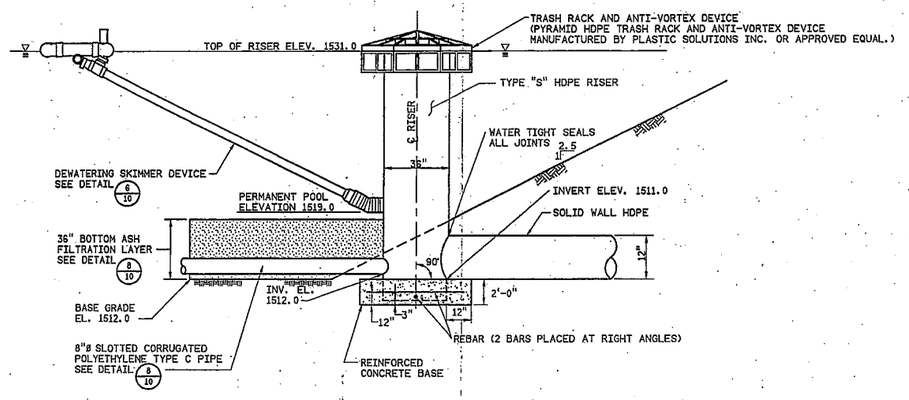


NOTE:
1. EMBED CLEAN-OUT STAKE MAXIMUM 12-INCHES IN BOTTOM ASH.
2. PLACE ORANGE MARKER TAPE 6-INCHES BELOW TOP OF BOTTOM ASH. SPACE MARKER TAPE HORIZONTALLY AT SIX-FOOT INTERVALS.

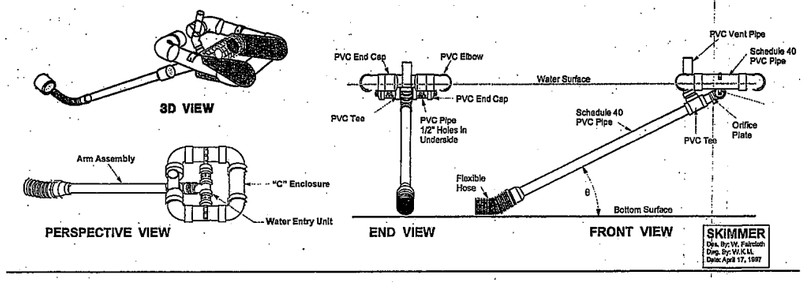
DETAIL 2/3,9,10
REDUCED AUXILIARY FLY ASH
POND LINER SYSTEM WITH LINER ANCHOR
SCALE: N.T.S.



DETAIL 4/3,8
POND ACCESS RAMP
SCALE: N.T.S.

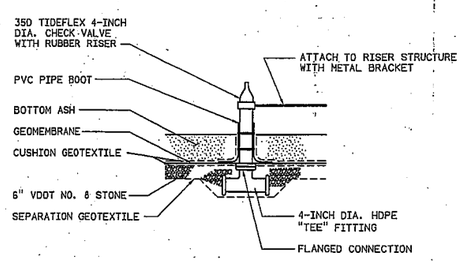


DETAIL 3/4,10
RISER STRUCTURE
SCALE: N.T.S.

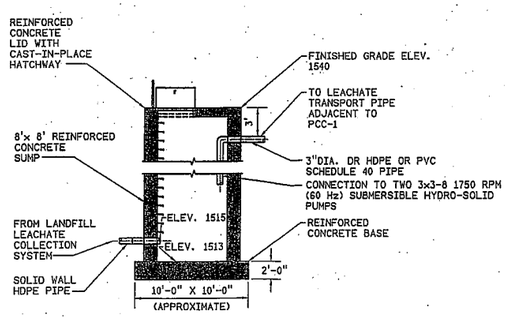


DETAIL 6/10
DEWATERING SKIMMER
SCALE: N.T.S.

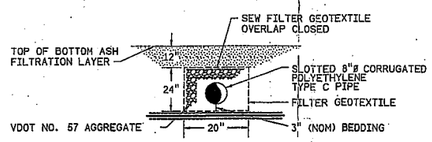
DEWATERING SKIMMER SCHEDULE			
NUMBER OF SKIMMERS	SKIMMER SIZE (IN.)	ORIFICE HOLE DIAMETER (IN.)	TARGET DEWATERING TIME (DAY)
1	6	4.5	8



DETAIL 7/10
AUX FAP RELIEF VALVE
SCALE: N.T.S.



DETAIL 5/4,5,9
LEACHATE PUMP STATION
SCALE: N.T.S.



DETAIL 8/10
REDUCED AUXILIARY FLY ASH POND UNDERDRAIN
SCALE: N.T.S.

COMMONWEALTH OF VIRGINIA
PRECHA YODMANE
No. 0201
PROFESSIONAL ENGINEER

gal consultants
PITTSBURGH OFFICE 385 EAST WATERFRONT DRIVE, HOMESTEAD, PA 15120-5005

DRAWN EJM APPROVED MRL
CHECKED RH DATE 8/24/07
TASK NO. 00
PROJECT NO./DASH NO. 2005-540-20
DRAWING NO. E-M010
SCALE N.T.S. SHT. NO. 10 OF 15

DATE	NO.	DESCRIPTION	APPD.
5/12/08	B	PER VA DEQ 7/2/08 1ST PART B PERMIT APPLICATION REVIEW	GFP
8/24/07	A	ISSUED FOR PERMIT	MRL

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APPALACHIAN POWER CO.
GLEN LYN PLANT
GLEN LYN, VIRGINIA
GLEN LYN LANDFILL LATERAL EXPANSION
DETAILS-
SHEET 2 OF 5
DWG. NO. 56-30255-10-B
SCALE: CIVIL ENGINEERING DIVISION
DR: CH: ENGR. PROJ. SUPR. DATE: APPROVED BY
AEP AMERICAN ELECTRIC POWER
1 RIVERSIDE PLAZA COLUMBUS, OH 43215

Appendix B

EPA Form 2F Notes

Note 1: FURTHER DESCRIPTION OF STORMWATER OUTFALLS

Outfall 001/901

The stormwater portion to Outfall 001 (Outfall 901) consists of runoff from the plant yard area, starting at the general office building and proceeding southeast to the coal yard (see Stormwater Drainage Maps section for depiction of this area). The coal yard is not included in the drainage area because coal yard drainage is collected and pumped to the bottom ash ponds. The stormwater collected from the Unit 6 precipitator roof is routed through an oil/water separator prior to release into the Ginny Hollow drainage tunnel. The secondary containment sump for the 500,000 and 365,000 gallon fuel oil tanks used to be manually discharged into the Ginny Hollow drainage tunnel. This discharge contribution has since been relocated to the Unit 6 silo sump which is pumped to the bottom ash/wastewater treatment ponds (Outfall 004). Accumulated stormwater in the Unit 6 fuel oil tank secondary containment is also periodically discharged to the drains leading to Outfall 901 manually following inspection. The Ginny Hollow drainage tunnel, which traverses the entire length of the plant property, also conveys stormwater collected from a portion of the Town of Glen Lyn, located uphill and west of the Glen Lyn Plant. All contributing stormwater flows from the plant property and plant activities have been identified within this application. The Company knows of no non-stormwater flow sources other than those identified that contribute to the Outfall 901 discharge.

The drainage area consists of approximately 14 total acres, including 1 acre of paved road, 3 acres of graveled or plant roadways, 4.5 acres of graveled substation, and 5.5 acres of vegetated land. Glen Lyn Plant periodically uses Accord®, Arsenal®, glyphosate-based or other EPA approved herbicides to control vegetation in the drainage area to this outfall.

Outfall 004

Stormwater contribution to the bottom ash/wastewater treatment pond system and eventual discharge to the East River via Outfall 004 includes runoff from the roof drains of the main generation building (except the Unit 6 precipitator roof, described above), the roof drains from the Unit 5 precipitator, stormwater collected from the coal yard, and up to the 10-year, 24-hour storm from the drainage area to Outfall 502 (see Stormwater Drainage Maps section for depiction of this area). Coal yard runoff is collected using a french drain system, perimeter drain system, collection sump, and pumping system with automatic controls triggered by the water level in the sump. In addition, rainfall that falls directly on the ponds, surrounding area and a portion of the runoff from the U.S. Route 460 bridge is treated within this system. All stormwater routed to the ponds receives treatment along with the wastewater flows to the system, including flow equalization, sedimentation, skimming, and coagulation, prior to discharge from Outfall 004.

The Company believes that it is not necessary or appropriate to have stormwater monitoring requirements placed on this treatment system. Stormwater flow discharged through Outfall 004 comprise only a small portion of the total flow, and receives treatment along with the wastewater, such that it would be impossible to obtain a sample representative of storm event data.

The total area of stormwater drainage includes 16.7 acres (see Stormwater Drainage Maps section for depiction of this area). This area includes 7 acres for the coal yard, 2.7 acres of roof drains, 3.4 acres of adjacent plant property, and 3.6 acres of direct precipitation to the ponds. Additionally, approximately 5 acres of drainage designated as Outfall 502 drains to the ponds up to the 10-year, 24-hour storm (see below for a further description). A small portion of U.S. Route 460 bridge drainage also drains to the ponds. The dikes of the ponds are sprayed annually in the spring with Escort® or other EPA approved herbicide to control woody stem vegetation.

Outfall 005/502

Outfall 502 receives stormwater runoff from two main areas which total approximately 5 acres (see Stormwater Drainage Maps section for depiction of this area). These areas consist of the area along the banks of the manmade channel (1.5 acres) and the parking area in front of the main plant building (3.5 acres). The parking area in front of the main plant building receives runoff primarily from a parking area (asphalt and gravel surfaces), but also receive stormwater runoff from roof drains of the facility's assembly building and office trailer, secondary containment dike of a fuel storage tank and from surrounding railroad tracks. This drainage leads to a drop inlet to a discharge tunnel leading to Outfall 005. The drop inlet is designated as Outfall 502.

During 2008, stormwater runoff to Outfall 502 was diverted to the bottom ash/wastewater treatment pond system which discharges to the East River via Outfall 004. It is estimated that the diversion has been constructed to handle the 10-year, 24-hour storm. Any precipitation event greater than the 10-year, 24-hour storm will continue to discharge via Outfall 502. However, the first-flush, which typically contains the bulk of pollutants, should be captured and diverted to the bottom ash/wastewater treatment ponds. The sampling results contained in this application on Form 2F, Part VII respective to Outfall 502 are for the discharge of diverted stormwater immediately prior to entering the diversion pipe to the bottom ash/wastewater treatment ponds. As a result, the Company does not believe that it is necessary or appropriate to impose a stormwater monitoring requirement on this discharge during the next permit term. Additionally, the Company requests that Outfall 502 remain in the reissued permit without monitoring requirements as an emergency stormwater outfall that will intermittently discharge if the specified storm is exceeded.

Glen Lyn Plant periodically uses Accord®, Arsenal®, glyphosate-based or other EPA approved herbicides to control vegetation in the drainage area to this outfall.

Outfall 006

In the event that the auxiliary fly ash pond was full and discharging through the weir, stormwater runoff would be an identified contributor to the discharge. However, Outfall 006 has not experienced a discharge, other than the small amount of seepage that infiltrates through the discharge tunnel, for many years. Except for periodic use for sluicing fly ash while the dry ash system has an outage, the only flow to the pond is from rainfall. Stormwater drainage for the pond is approximately 11 acres (see Stormwater Drainage Maps section for depiction of this area). This drainage area will decrease to approximately 2 acres following the proposed lateral landfill expansion and reduction if the pond size as discussed in Appendix A. The inboard dikes of the pond are sprayed annually in the spring with Escort® herbicide or other EPA approved herbicide to control woody stem vegetation.

In the event that the auxiliary fly ash pond is utilized, all storm water routed to the pond would receive treatment along with the wastewater flow to the system, including flow equalization, sedimentation, skimming, coagulation, and neutralization, prior to discharge from Outfall 006. Consequently, the Company does not believe that it is necessary or appropriate to impose a stormwater monitoring requirement on this discharge.

Outfall 007/907

The stormwater portion to Outfall 007 (Outfall 907) consists of runoff from the entire drainage area of the coal combustion by-product landfill (see Stormwater Drainage Maps section for depiction of this area). The drainage area for this runoff includes contact water from the landfill collected in the intermediate treatment (leachate) pond, and non-contact stormwater that drains from around the outside of the existing fill area. There is also believed to be a small, underground spring that contributes a small amount of flow to the treatment pond.

Water that percolates through the ash fill, groundwater intercepts, and stormwater that comes into direct contact with the active landfill areas is collected by the leachate pond. Water is retained in this pond until transferred manually by a portable pump on an as-needed basis to the adjacent (northwest) runoff collection pond for additional settling prior to discharge through Outfall 007 to the New River. Stormwater that falls on the portion of the landfill that does not come into direct contact with the ash is collected in crown ditches and transferred directly to the runoff collection pond. All water routed to the collection pond receives the same treatment, including flow equalization, sedimentation, skimming, and coagulation prior to being discharged through Outfall 007.

The landfill drainage area contains approximately 50 acres, of which about 10 acres is occupied by the two ponds. Glen Lyn Plant periodically uses Accord®, Arsenal®, glyphosate-based or other EPA approved herbicides to control vegetation in the drainage area to this outfall.

Outfall 008

The discharge from Outfall 008, if constructed, will consist solely of non-contact runoff from a stormwater management pond (Pond 2) that is proposed to support the Adair Run Landfill. The Adair Run Landfill will be located primarily in West Virginia and permitted under SW/NPDES Permit WV0116114 issued by the West Virginia Department of Environmental Protection. The Adair Run Landfill is on-hold indefinitely and no construction has taken place. However, if the Adair Run Landfill is constructed, so will Outfall 008. The drainage area contributing to Outfall 008 will consist of approximately 20.2 acres. Of which, approximately 17.96 acres will consist of vegetated hillside, and the remaining 2.25 acres will consist of paved access road (see Stormwater Drainage Maps section for depiction of this area). Runoff will enter the pond primarily through two channels; rip-rap will be used to protect the channel outlets (inlets to the pond). Details of the pond (Pond 2), including its outlet structure, are shown on Drawing Number 56-30249, which can be found in the Stormwater Drainage Maps section of this application.

The pond was designed to manage stormwater run-on and runoff from the 25-year, 24-hour storm event without overtopping. Post-development peak discharge is limited to the volume of predevelopment runoff for the 2-year, 24-hour storm event.

<u>Note 2:</u> SIGNIFICANT MATERIALS STORED

Outfall 001

The materials stored in the drainage area for Outfall 001 include:

- Structural steel components, including piping, stored on the ground on the hill behind the plant.
- Scrap metal, including a scrap metal dumpster, maintained on the hill behind the plant.
- Used wooden pallets stored on the ground behind the plant and in front of the plant prior to being removed for disposal.
- A small amount of asbestos piping stored on the ground on the hill behind the plant.
- Several above- and below-ground storage tanks. The two largest tanks are a 500,000 and 365,000-gallon aboveground fuel oil storage tanks. Both of these tanks are surrounded by an earthen clay berm and are equipped with a vapor monitoring system.

- Various materials shipped to or from the plant may be temporarily stored at the shipping/receiving area. This area may also include materials and equipment brought by outside contractors performing work at the plant.

Outfalls 004 and 006

Outside of the wastewater treated and discharged through Outfalls 004 and 006, no significant materials have been stored, treated, or disposed of in the stormwater drainage areas identified for these outfalls during the previous three years.

Outfall 005/502

Two 2,500-gallon fuel storage tanks with secondary containment are located within the Outfall 502 drainage area.

Outfall 007/907

Other than the ash disposal activities at the structural fill area, the only material storage within this drainage area is ash sluice piping for the wet ash system. The equipment used to operate the landfill is also periodically rinsed, with the water draining to the Outfall 007 collection pond.

Outfall 008

No significant materials are expected to be stored in this area, if constructed.

Appendix C

Summary of Discharge Monitoring Reports

Summary of DMR Data Collected at Outfall 001 - Unit #6 Turbine Oil Cooler

Monitoring Period	Monthly Avgerage Flow (MGD)	Daily Maximum Flow (MGD)	Daily Maximum Heat Reject (BTU/Hr)
July 2004*		Unit Out of Service	
August 2004	0.453	1.093	0.020
September 2004	0.358	0.389	0.020
October 2004	0.238	0.249	0.020
November 2004	0.170	0.258	0.020
December 2004	0.220	0.234	0.020
2004 Average	0.288	0.445	0.020
January 2005	0.234	0.243	0.025
February 2005	0.225	0.254	0.025
March 2005	0.225	0.247	0.023
April 2005	0.334	0.450	0.025
May 2005	0.375	0.549	0.023
June 2005	0.528	0.566	0.022
July 2005	0.557	0.589	0.018
August 2005	0.589	0.589	0.014
September 2005	0.620	0.658	0.030
October 2005	0.452	0.599	0.024
November 2005	0.207	0.223	0.025
December 2005	0.186	0.223	0.029
2005 Average	0.378	0.433	0.024
January 2006	0.206	0.243	0.027
February 2006	0.197	0.263	0.028
March 2006	0.252	0.298	0.026
April 2006	0.417	0.518	0.027
May 2006	0.430	0.618	0.026
June 2006	0.593	0.618	0.019
July 2006	0.530	0.618	0.025
August 2006	0.511	0.608	0.011
September 2006	0.489	0.599	0.025
October 2006	0.290	0.330	0.026
November 2006	0.273	0.345	0.024
December 2006	0.259	0.359	0.025
2006 Average	0.371	0.451	0.024
January 2007	0.198	0.243	0.026
February 2007	0.225	0.263	0.030
March 2007	0.340	0.386	0.025
April 2007	0.301	0.457	0.028
May 2007		Unit Out of Service	
June 2007	0.299	0.608	0.025
July 2007	0.576	0.648	0.017
August 2007	0.648	0.648	0.008
September 2007	0.621	0.648	0.027
October 2007	0.497	0.698	0.026
November 2007	0.241	0.315	0.026
December 2007	0.253	0.281	0.026
2007 Average	0.382	0.472	0.024
January 2008	0.235	0.281	0.027
February 2008	0.261	0.298	0.026
March 2008	0.476	0.578	0.029
April 2008	0.627	0.648	0.030
May 2008	0.648	0.648	0.030
June 2008	0.573	0.744	0.022
July 2008	0.674	0.745	0.024
August 2008	0.676	0.745	0.022
September 2008	0.650	0.745	0.012
October 2008	0.254	0.272	0.024
November 2008	0.160	0.178	0.023
December 2008	0.173	0.213	0.024
2008 Average	0.451	0.508	0.024
Long-Term Maximum**	0.676	0.745	0.030
Long-Term Minimum**	0.160	0.178	0.008
Long-Term Average**	0.385	0.456	0.024

* First monitoring period of the current VPDES Permit (Effective July 11, 2004).
** Values determined over the current VPDES Permit monitoring periods.

Summary of DMR Data Collected at Outfall 002 - Unit #6 Cooling Water (20%)

Monitoring Period	Monthly Avgerage Flow (MGD)	Daily Maximum Flow (MGD)	Daily Maximum Heat Reject (BTU/Hr)
July 2004*	17.7	44.3	1.53
August 2004	31.1	44.3	2.04
September 2004	26.6	44.3	2.01
October 2004	30.5	44.3	2.05
November 2004	28.4	44.3	2.06
December 2004	30.5	44.3	2.09
2004 Average	27.5	44.3	1.96
January 2005	29.5	44.3	2.07
February 2005	25.9	44.3	2.07
March 2005	30.5	44.3	2.05
April 2005	27.5	44.3	2.05
May 2005	28.6	44.3	2.07
June 2005	31.8	44.3	2.00
July 2005	30.5	44.3	2.00
August 2005	30.7	44.3	2.00
September 2005	30.5	44.3	1.99
October 2005	25.7	44.3	2.03
November 2005	29.0	44.0	2.08
December 2005	30.7	44.3	2.08
2005 Average	29.2	44.3	2.04
January 2006	30.5	44.3	2.08
February 2006	30.5	44.3	2.07
March 2006	30.5	44.3	2.07
April 2006	30.5	44.3	2.07
May 2006	23.1	44.3	2.06
June 2006	30.5	44.3	2.03
July 2006	28.5	44.3	1.99
August 2006	30.7	44.3	2.00
September 2006	30.7	44.3	2.04
October 2006	30.5	44.3	2.05
November 2006	30.1	44.3	2.05
December 2006	27.5	44.3	2.07
2006 Average	29.5	44.3	2.05
January 2007	27.2	44.3	2.05
February 2007	30.5	44.3	2.07
March 2007	30.4	44.3	2.04
April 2007	29.4	44.3	2.03
May 2007	1.9	44.3	0.01
June 2007	16.4	44.3	2.02
July 2007	29.5	44.3	2.02
August 2007	30.5	44.3	1.98
September 2007	27.4	44.3	2.01
October 2007	30.5	44.3	2.06
November 2007	29.2	44.3	2.07
December 2007	30.5	44.3	2.07
2007 Average	26.1	44.3	1.87
January 2008	30.5	44.3	2.07
February 2008	30.5	44.3	2.07
March 2008	30.5	44.3	2.07
April 2008	30.5	44.3	2.06
May 2008	22.9	44.3	2.07
June 2008	29.0	44.3	2.02
July 2008	29.3	44.3	2.01
August 2008	31.4	44.3	2.02
September 2008	29.5	44.3	2.02
October 2008	25.3	44.3	2.06
November 2008	24.0	44.3	2.07
December 2008	30.5	44.3	2.06
2008 Average	28.7	44.3	2.05
Long-Term Maximum**	31.8	44.3	2.09
Long-Term Minimum**	1.9	44.0	0.01
Long-Term Average**	28.257	44.294	2.00

* First monitoring period of the current VPDES Permit (Effective July 11, 2004).
** Values determined over the current VPDES Permit monitoring periods.

Summary of DMR Data Collected at Outfall 003 - Unit #5 Cooling Water

Monitoring Period	Monthly Avgerage Flow (MGD)	Daily Maximum Flow (MGD)	Daily Maximum Heat Reject (BTU/Hr)
July 2004	124.0	124.0	6.29
August 2004	98.8	124.0	5.88
September 2004	90.9	124.0	6.04
October 2004	113.6	124.0	6.13
November 2004	89.0	124.0	6.58
December 2004	79.9	124.0	6.56
2004 Average	99.4	124.0	6.25
January 2005	78.0	124.0	6.44
February 2005	71.8	124.0	6.07
March 2005	79.0	124.0	5.89
April 2005	99.9	124.0	6.69
May 2005	70.9	124.0	6.13
June 2005	113.2	124.0	6.14
July 2005	107.4	124.0	6.26
August 2005	124.0	124.0	6.38
September 2005	124.0	124.0	6.41
October 2005	123.7	124.0	6.41
November 2005	60.0	124.0	6.33
December 2005	117.4	124.0	6.15
2005 Average	97.4	124.0	6.28
January 2006	65.2	124.0	6.36
February 2006	124.0	124.0	6.41
March 2006	124.0	124.0	6.68
April 2006	124.0	124.0	6.21
May 2006	124.0	124.0	6.35
June 2006	122.1	124.0	6.15
July 2006	124.0	124.0	6.02
August 2006	124.0	124.0	6.15
September 2006	80.9	124.0	5.55
October 2006	38.8	124.0	5.68
November 2006	124.0	124.0	6.35
December 2006	83.0	124.0	6.48
2006 Average	104.8	124.0	6.20
January 2007	89.1	124.0	6.41
February 2007	123.9	124.0	6.87
March 2007	123.8	124.0	6.68
April 2007	124.0	124.0	6.87
May 2007	124.0	124.0	6.48
June 2007	123.2	124.0	6.35
July 2007	119.7	124.0	6.48
August 2007	124.0	124.0	6.48
September 2007	112.9	124.0	6.35
October 2007	96.5	124.0	6.21
November 2007	119.6	124.0	6.61
December 2007	99.6	124.0	6.41
2007 Average	115.0	124.0	6.52
January 2008	93.8	124.0	6.02
February 2008	123.8	124.0	6.61
March 2008	116.5	124.0	5.95
April 2008	122.1	124.0	6.02
May 2008	113.6	124.0	6.21
June 2008	123.8	124.0	6.35
July 2008	116.9	124.0	5.88
August 2008	69.8	124.0	5.95
September 2008	55.4	124.0	5.95
October 2008	5.6	124.0	6.21
November 2008	16.8	124.0	6.15
December 2008	21.3	124.0	6.61
2008 Average	81.6	124.0	6.16
Long-Term Maximum**	124.0	124.0	6.87
Long-Term Minimum**	5.6	124.0	5.55
Long-Term Average**	99.998	124.000	6.28

* First monitoring period of the current VPDES Permit (Effective July 11, 2004).
** Values determined over the current VPDES Permit monitoring periods.

Summary of DMR Data Collected at Outfall 004 - Bottom Ash Ponds, Low Volume Wastes, Coal Pile Underdrain and Miscellaneous Wastewater Discharge

Monitoring Period	Monthly Avgerage Flow (MGD)	Daily Maximum Flow (MGD)	Monthly Average TSS (mg/L)	Daily Maximum TSS (mg/L)	Oil & Grease (mg/L)	Minimum pH (S.U.)	Maximum pH (S.U.)
July 2004*	1.642	1.787	26.5	56.2		7.40	8.00
August 2004	2.098	2.443	23.1	35.5		7.00	7.40
September 2004	1.997	2.464	18.7	27.5	5.0	6.80	7.90
October 2004	2.260	2.430	10.9	18.0		7.10	7.20
November 2004	2.217	2.291	8.4	14.3		6.80	7.30
December 2004	3.273	3.315	19.6	39.9	<5.0	7.20	7.60
2004 Average	2.248	2.455	17.9	31.9	3.8***	7.05	7.57
January 2005	3.286	3.616	20.8	30.0		7.30	7.70
February 2005	3.021	3.267	13.0	29.6	<5.0	7.60	8.10
March 2005	3.112	3.221	17.0	25.4		7.60	7.80
April 2005	2.896	3.158	12.8	19.0		7.70	7.80
May 2005	2.987	3.111	8.0	9.7		7.60	8.10
June 2005	3.245	3.366	7.4	11.4	<5.0	7.70	8.00
July 2005	3.374	3.752	9.5	12.3		7.80	7.90
August 2005	3.443	3.763	7.8	14.4		7.60	7.90
September 2005	3.169	3.223	5.4	8.4	<5.0	7.80	7.90
October 2005	3.120	3.393	7.4	9.3		7.60	7.80
November 2005	2.919	3.349	12.0	16.4		7.20	7.90
December 2005	3.181	3.513	14.6	32.4	<5.0	7.30	7.70
2005 Average	3.146	3.394	11.3	18.2	2.5***	7.57	7.88
January 2006	3.317	3.412	9.9	19.2		7.20	7.40
February 2006	3.272	3.360	14.9	28.4		7.20	7.70
March 2006	3.178	3.357	12.2	21.9	<5.0	7.20	7.50
April 2006	3.191	3.261	18.5	24.5		7.30	7.50
May 2006	3.109	3.246	30.8	87.9		7.00	7.90
June 2006	3.422	3.502	10.6	14.4	<5.0	7.50	8.20
July 2006	4.230	4.924	15.3	25.7		7.60	7.90
August 2006	4.083	5.786	20.3	28.7		7.60	7.90
September 2006	5.429	5.663	13.0	22.1		7.40	7.80
October 2006	5.060	5.654	14.0	22.6	<5.0	7.20	7.70
November 2006	5.356	5.404	13.5	21.4		6.60	7.40
December 2006	5.325	5.711	22.6	41.5		6.43	7.61
2006 Average	4.081	4.440	16.3	29.9	2.5***	7.19	7.71
January 2007	5.470	5.697	18.0	54.9	<5.0	6.33	6.93
February 2007	5.337	5.454	23.0	54.3		6.61	7.23
March 2007	5.405	5.427	13.8	18.2		7.29	7.75
April 2007	5.107	5.398	20.2	26.8	<5.0	6.99	7.67
May 2007	2.790	4.969	12.4	28.7		6.99	7.49
June 2007	1.349	2.089	14.2	15.7		6.61	6.92
July 2007	1.236	1.422	14.9	18.8	<5.0	6.69	7.84
August 2007	1.145	1.228	19.9	22.9		6.98	7.64
September 2007	1.034	1.407	11.6	14.7		7.55	7.86
October 2007	1.093	1.195	8.9	15.2	<5.0	6.79	7.47
November 2007	1.431	2.140	12.8	15.8		6.85	7.25
December 2007	2.019	2.241	21.7	32.1	<5.0	6.85	7.54
2007 Average	2.785	3.222	16.0	26.5	2.5***	6.88	7.47
January 2008	1.993	2.307	23.7	77.4		6.98	7.41
February 2008	1.850	2.251	21.3	33.8		6.75	7.56
March 2008	1.802	1.927	13.7	27.3	<5.0	6.62	6.92
April 2008	1.815	1.891	18.0	23.4		6.54	6.89
May 2008	1.633	1.978	17.7	23.7		6.96	8.19
June 2008	1.825	2.102	16.3	22.9	<5.0	7.81	8.26
July 2008	2.040	2.167	19.5	30.8		7.82	7.91
August 2008	2.002	2.077	12.9	16.1		7.81	8.07
September 2008	2.052	2.085	11.7	15.5	<5.0	7.60	7.93
October 2008	1.835	1.908	7.1	11.0	<5.0	7.67	8.40
November 2008	1.790	2.180	47.89	201.75		7.58	7.92
December 2008	1.920	2.020	9.3	19.2		7.48	8.08
2008 Average	1.880	2.074	18.3	41.9	2.5***	7.30	7.80
Long-Term Maximum**	5.470	5.786	47.89	201.75	5.0	7.82	8.40
Long-Term Minimum**	1.034	1.195	5.40	8.40	<5.0	6.33	6.89
Long-Term Average**	2.904	3.204	15.70	29.23	2.6***	7.21	7.69

* First monitoring period of the current VPDES Permit (Effective July 11, 2004).
** Values determined over the current VPDES Permit monitoring periods.
*** Averages for oil & grease were calculated using one-half the quantification limit (5.0 mg/L) when reported as <5.0 mg/L (specified permit quantification limit).

Summary of DMR Data Collected at Outfall 005 - Unit #6 Cooling Water (80%)

Monitoring Period	Monthly Avgerage Flow (MGD)	Daily Maximum Flow (MGD)	Daily Maximum Heat Reject (BTU/Hr)
July 2004	70.85	177.41	6.15
August 2004	124.51	177.41	8.18
September 2004	104.71	177.41	8.08
October 2004	121.89	177.41	8.22
November 2004	113.51	177.41	8.26
December 2004	121.89	177.41	8.39
2004 Average	109.56	177.41	7.88
January 2005	117.96	177.41	8.29
February 2005	103.66	177.41	8.32
March 2005	121.89	177.41	8.22
April 2005	110.04	177.41	8.22
May 2005	114.44	177.41	8.32
June 2005	127.31	177.41	8.03
July 2005	122.38	177.41	8.02
August 2005	122.88	177.41	8.01
September 2005	121.98	177.41	8.00
October 2005	102.97	177.41	8.16
November 2005	115.97	177.41	8.34
December 2005	122.71	177.41	8.32
2005 Average	117.02	177.41	8.19
January 2006	121.89	177.41	8.29
February 2006	121.80	177.41	8.32
March 2006	121.89	177.41	8.29
April 2006	121.81	177.41	8.29
May 2006	92.48	177.41	8.26
June 2006	121.89	177.41	8.13
July 2006	114.11	177.41	7.99
August 2006	122.88	177.41	8.03
September 2006	122.74	177.41	8.19
October 2006	121.89	177.41	8.23
November 2006	120.45	177.41	8.25
December 2006	110.02	177.41	8.29
2006 Average	117.82	177.41	8.21
January 2007	108.70	177.41	8.23
February 2007	121.89	177.41	8.29
March 2007	121.73	177.41	8.19
April 2007	117.66	177.41	8.13
May 2007	7.78	177.41	0.03
June 2007	65.52	177.41	8.09
July 2007	118.13	177.41	8.09
August 2007	121.89	177.41	7.96
September 2007	109.21	177.41	8.06
October 2007	121.89	177.41	8.26
November 2007	116.90	177.41	8.29
December 2007	121.98	177.41	8.29
2007 Average	104.44	177.41	7.49
January 2008	121.98	177.41	8.32
February 2008	121.89	177.41	8.29
March 2008	121.81	177.41	8.29
April 2008	121.89	177.41	8.26
May 2008	91.42	177.41	8.29
June 2008	115.90	177.41	8.09
July 2008	117.30	177.41	8.06
August 2008	125.74	177.41	8.09
September 2008	117.83	177.41	8.09
October 2008	101.25	177.41	8.26
November 2008	96.16	177.41	8.29
December 2008	121.81	177.41	8.26
2008 Average	114.58	177.41	8.22
Long-Term Maximum**	127.3	177.4	8.39
Long-Term Minimum**	7.8	177.4	0.03
Long-Term Average**	112.974	177.410	8.01

* First monitoring period of the current VPDES Permit (Effective July 11, 2004).
** Values determined over the current VPDES Permit monitoring periods.

Summary of DMR Data Collected at Outfall 007 - Ash Storage Runoff Pond

Monitoring Period	Monthly Avgerage Flow (MGD)	Daily Maximum Flow (MGD)	Monthly Average TSS (mg/L)	Daily Maximum TSS (mg/L)	Oil & Grease (mg/L)	Minimum pH (S.U.)	Maximum pH (S.U.)
July 2004*	0.0232	0.0769	1.9	5.4		7.40	7.70
August 2004	0.01479	0.04441	2.0	3.9		7.20	7.60
September 2004	0.03048	0.07875	1.2	1.9	<5.0	7.30	7.70
October 2004	0.0188	0.0279	<1.0	2.0		7.20	7.60
November 2004	0.1099	0.0292	<1.0	1.5		7.30	7.60
December 2004	0.0729	0.2308	<1.0	3.3	<5.0	7.10	7.60
2004 Average	0.0450	0.0813	1.1***	3.0	2.5***	7.25	7.63
January 2005	0.0304	0.0430	1.1	2.0		7.10	8.10
February 2005	0.0382	0.0617	1.3	1.3	<5.0	8.10	8.30
March 2005	0.0599	0.1535	<1.0	1.3		8.10	8.50
April 2005	0.0298	0.0560	<1.0	1.3		8.00	8.10
May 2005	0.0192	0.0374	3.3	7.5		7.90	8.00
June 2005	0.0083	0.0183	<1.0	1.4	<5.0	7.40	8.10
July 2005	0.0054	0.0077	2.1	2.9		7.80	8.00
August 2005	0.0032	0.0060	0.8	2.0		7.80	8.00
September 2005	0.0074	0.0106	1.0	2.1	<5.0	8.00	8.10
October 2005	0.0057	0.0097	<1.0	<1.0		7.80	8.00
November 2005	0.0107	0.0311	0.3	1.3		7.80	8.00
December 2005	0.0193	0.0396	1.3	3.4	<5.0	7.80	8.10
2005 Average	0.0198	0.0396	1.1***	2.3***	2.5***	7.80	8.11
January 2006	0.0223	0.0305	2.1	3.5		7.90	8.20
February 2006	0.0207	0.0367	0.43	1.7		8.10	8.20
March 2006	0.0123	0.0168	<1.0	<1.0	<5.0	8.20	8.50
April 2006	0.0395	0.0595	<1.0	<1.0		8.00	8.40
May 2006	0.0089	0.0141	0.3	1.5		7.80	8.00
June 2006	0.0466	0.1527	4.6	18.5	<5.0	7.70	8.10
July 2006	0.0139	0.0236	1.8	2.3		7.90	7.90
August 2006	0.0097	0.0218	3.0	5.8		7.60	7.90
September 2006	0.0122	0.0198	4.2	5.0		7.70	7.90
October 2006	0.0226	0.0356	<1.0	1.6	<5.0	7.80	8.00
November 2006	0.0243	0.0487	1.0	1.7		7.60	8.00
December 2006	0.0142	0.0189	1.4	1.6		7.51	7.80
2006 Average	0.0206	0.0399	1.7***	3.7***	2.5***	7.82	8.08
January 2007	0.0783	0.1433	1.9	3.2	<5.0	7.32	7.55
February 2007	0.0228	0.0355	1.2	1.3		7.37	7.55
March 2007	0.0259	0.0301	1.6	2.7		7.38	8.05
April 2007	0.0212	0.0406	<1.0	1.3	<5.0	7.53	7.76
May 2007	0.0182	0.0436	<1.0	1.2		7.23	7.32
June 2007	0.0126	0.0415	1.0	2.2		7.11	7.38
July 2007	0.0030	0.0070	2.5	3.9	<5.0	7.35	7.62
August 2007	0.0039	0.0060	1.8	5.5		7.24	7.92
September 2007	0.0018	0.0019	2.5	4.1		7.76	7.86
October 2007	0.0058	0.0209	2.3	4.3	<5.0	7.71	7.92
November 2007	0.0111	0.0175	1.0	2.5		7.73	7.85
December 2007	0.0476	0.0957	2.2	3.4	<5.0	7.61	7.79
2007 Average	0.0210	0.0403	1.6***	3.0	2.5***	7.45	7.71
January 2008	0.0421	0.0573	2.2	4.4		7.52	7.74
February 2008	0.0286	0.0430	<1.0	1.7		7.42	7.64
March 2008	0.0227	0.0510	<1.0	1.5	<5.0	7.46	7.82
April 2008	0.0462	0.0756	1.11	2.0		7.14	7.45
May 2008	0.0265	0.0340	0.60	1.2		7.19	8.13
June 2008	0.0035	0.0066	1.43	2.3	<5.0	7.76	8.08
July 2008	0.0193	0.0403	2.20	3.3		7.81	8.13
August 2008	0.0036	0.0103	1.99	2.5		7.78	8.03
September 2008	0.0020	0.0022	<1.0	1.05	<5.0	7.83	8.03
October 2008	0.0060	0.0189	<1.0	1.4	<5.0	8.06	8.20
November 2008	0.0022	0.0037	3.69	14.75		8.03	8.13
December 2008	0.00900	0.02880	0.51	1.9	<5.0	7.53	8.18
2008 Average	0.01764	0.03098	1.31***	3.2	2.5****	7.63	7.96
Long-Term Maximum**	0.110	0.231	4.60	18.50	<5.0	8.20	8.50
Long-Term Minimum**	0.002	0.002	0.30	1.05	<5.0	7.10	7.32
Long-Term Average**	0.023	0.043	1.39***	3.01***	2.5****	7.62	7.93

* First monitoring period of the current VPDES Permit (Effective July 11, 2004).
** Values determined over the current VPDES Permit monitoring periods.
*** Averages for total suspended solids were calculated using one-half the quantification limit (1.0 mg/L) when reported as <1.0 mg/L (specified permit quantification limit).
**** Averages for oil & grease were calculated using one-half the quantification limit (5.0 mg/L) when reported as <5.0 mg/L (specified permit quantification limit).

Summary of DMR Data Collected at Outfall 502 - Stormwater to Outfall 002

Monitoring Period	Monthly Avgerage Flow (MGD)	Total Suspended Solids (mg/L)	Total Recoverable Zinc (ug/L)
December 2004*	0.010300	125.2	221
August 2005	0.006600	189.4	125
August 2006	0.000032	95.0	182
August 2007	0.000570	45.5	196
January 2008	0.000130	38.4	97
August 2008	0.002300	37.9	461
December 2008	0.001800	94.4	593
2008 Average	0.001410	56.9	384
Long-Term Maximum**	0.0	189.4	593
Long-Term Minimum**	0.0	37.9	97
Long-Term Average**	0.003	89.400	268

* First monitoring period of the current VPDES Permit (Effective July 11, 2004) was July 2004.
** Values determined over the current VPDES Permit monitoring periods.

Summary of DMR Data Collected at Outfall 901 - Stormwater to Outfall 001

Monitoring Period	Daily Maximum Flow (MGD)	Total Recoverable Zinc (ug/L)	Total Recoverable Nickel (ug/L)
September 2004*	0.408	304	4
December 2004	0.797	122	8
2004 Average	0.603	213	6
March 2005	0.969	199	<3
June 2005	0.300	102	<3
August 2005	0.500	648	30
November 2005	0.300	117	<5
2005 Average	0.517	266.5	8.9*****
August 2006	0.075	247	<5
September 2006	0.080	117	<5
2006 Average	0.078	182	2.5*****
3/7/2007**	0.750	172	<5
5/7/2007***	0.750	<1	<5
July 2007	0.750	205	<5
August 2007	0.500	31.2	<QL
2007 Average	0.688	102.2*****	2.5*****
January 2008	0.250	35	<QL
March 2008	0.250	187	<5
June 2008	0.200	74.3	2.4
August 2008	0.300	19	3.8
November 2008	0.250	13	<5
2008 Average	0.250	65.7	2.7*****
Long-Term Maximum****	1.0	648	30
Long-Term Minimum****	0.1	13	2.4
Long-Term Average****	0.444	171.26*****	4.57*****

* First monitoring period of the current VPDES Permit (Effective July 11, 2004) was July 2004.
** Make-up sample for November 2006 to January 2007 monitoring period.
*** Make-up sample for February 2007 to April 2007 monitoring period.
**** Values determined over the current VPDES Permit monitoring periods.
***** Averages for total recoverable zinc and nickel were calculated using one-half the quantification limit.

Summary of DMR Data Collected at Outfall 907 - Stormwater to Outfall 007

Monitoring Period	Daily Maximum Flow (MGD)	Daily Maximum TSS (mg/L)	Oil & Grease (mg/L)	Minimum pH (S.U.)	Maximum pH (S.U.)
December 2004*	0.01630	<QL	<QL	7.60	7.60
August 2006	0.00042	2.9	<QL	8.00	8.00
August 2007	0.00013	1.1	<QL	7.88	7.88
January 2008	0.00062	1.7	<QL	7.76	7.76
December 2008	0.00180	<QL	<QL	7.53	7.53
2008 Average	0.00121	1.1	2.5	7.65	7.65
Long-Term Maximum**	0.016	2.9	<5.0	8.00	8.00
Long-Term Minimum**	0.000	1.1	<5.0	7.53	7.53
Long-Term Average**	0.004	1.34	2.5	7.75	7.75

* First monitoring period of the current VPDES Permit (Effective July 11, 2004).
** Values determined over the current VPDES Permit monitoring periods.
*** Averages for total suspended solids were calculated using one-half the quantification limit (1.0 mg/L) when reported as <1.0 mg/L (specified permit quantification limit).
**** Averages for oil & grease were calculated using one-half the quantification limit (5.0 mg/L) when reported as <5.0 mg/L (specified permit quantification limit).

Summary of DMR Data Collected at Outfall 999 - Combined Thermal Discharges from Outfall 001, 002 and 003

Monitoring Period	Daily Maximum Heat Reject (BTU/Hr)
July 2004*	6.96
August 2004	7.94
September 2004	7.87
October 2004	7.87
November 2004	8.59
December 2004	8.45
2004 Average	7.95
January 2005	8.42
February 2005	6.11
March 2005	7.93
April 2005	8.54
May 2005	7.20
June 2005	8.26
July 2005	8.21
August 2005	8.25
September 2005	8.33
October 2005	8.30
November 2005	6.64
December 2005	8.16
2005 Average	7.86
February 2006	8.47
March 2006	8.77
April 2006	8.27
May 2006	8.28
June 2006	8.17
July 2006	7.69
August 2006	8.13
September 2006	7.52
October 2006	7.45
November 2006	8.27
December 2006	8.56
2006 Average	8.14
January 2007	8.48
February 2007	8.97
March 2007	8.53
April 2007	8.77
May 2007	6.49
June 2007	8.26
July 2007	8.50
August 2007	8.44
September 2007	8.38
October 2007	8.19
November 2007	8.69
December 2007	8.32
2007 Average	8.34
January 2008	8.10
February 2008	8.32
March 2008	8.02
April 2008	8.00
May 2008	8.31
June 2008	8.33
July 2008	7.84
August 2008	7.96
September 2008	7.812
October 2008	8.28
November 2008	8.19
December 2008	8.66
2008 Average	8.15
Long-Term Maximum**	8.97
Long-Term Minimum**	6.11
Long-Term Average**	8.10

* First monitoring period of the current VPDES Permit (Effective July 11, 2004).
** Values determined over the current VPDES Permit monitoring periods.

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Mr. Kip D. Foster
Water Permit Manager
Virginia Department of Environmental Quality
West Central Regional Office
3019 Peters Creek Road
Roanoke, Virginia 24019

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January 9, 2009

Re: Appalachian Power Company
Glen Lyn Plant VPDES Permit Renewal Application
VPDES Permit No. VA0000370

Dear Mr. Foster:

Please find enclosed, one (1) original and three (3) copies of a completed VPDES permit renewal application for the above referenced facility and permit. Contained within the application packages are the following:

- Public Notice Billing Information Form
- EPA General Form 1
- EPA Form 2C for Outfalls 001, 002, 003, 004, 005, 006 and 007
- EPA Form 2F for Outfalls 502, 901, 907 and 008
- VPDES Permit Application Addendum
- Figure 1 – USGS Site Location Map
- Figure 2 – VPDES Water Balance Diagram
- Stormwater Drainage Maps
- Appendix A – EPA Form 2C Notes
- Appendix B – EPA Form 2F Notes
- Appendix C – Summary of Discharge Monitoring Reports

If you have any questions or need additional information, please contact Jon Magalski of my staff at (614) 716-2240 or at jmmagalski@aep.com.

Sincerely,

Alan R. Wood, P.E.
Manager, Water & Ecological Resource Services

Enclosures