CENTERIOR ENERGY

PERRY NUCLEAR POWER PLANT
10 CENTER ROAD
PERRY, OHIO 44081
(216) 259-3737

Mail Address:
P.O. BOX 97
PERRY, OHIO 44081

Donald C. Shelton
SENIOR VICE PRESIDENT
NUCLEAR

November 7, 1995
PY-CEI/OEPA-0234L

Attention: Mr. Dennis Lee, Group Leader
Division of Water Pollution Control
Ohio Environmental Protection Agency
Northeast District Office
2110 East Aurora Road
Twinsburg, Ohio 44087-1969

Re: NPDES Permit No. 3IB00016 Ohio EPA No. OH006346
Perry Nuclear Power Plant; The Cleveland Electric Illuminating Co.
10 Center Road, Perry Village, Ohio 44081 Lake County

Gentlemen:

Enclosed is the NPDES permit renewal application for the Perry Nuclear Power Plant. Included in this application are the following documents:

(1) Application Form 1 - General Information
(2) Application Form 2C - Wastewater Discharge Information
(3) USGS Map (Perry Quadrangle, Lake County) showing the location of the plant and associated outfalls.
(4) Line Drawing of Water Flow at the plant site.
(5) Check for the $100.00 Permit Renewal Application Fee.

Please note that there are no forms provided for Outfall 002, Chemical Cleaning Lagoon, since it was not in service and there was no discharge during the permit application sampling period.

The Perry Plant also requests the following changes in the new permit:

1. Asterisks (*) should be placed by all sampling frequencies except flow for outfall 002 denoting sampling required only on days when there is a discharge.

2. Ph limits on all outfalls should be changed to 6.0-9.0. This change is justified by alkalinity studies conducted previously at other Centerior Power Plants on Lake Erie and furnished to OEPA.

3. Outfall 001 should be redesignated as 601 to reflect its status as an entirely internal discharge which combines with the flow from outfall 004 upstream of the final discharge from the plant.

130103

C001.1

4. If the agency decides to establish effluent loadings, the plant requests that the flows on which the limitations are based be a reasonable measure of actual production and be no more stringent than the following:

Outfall 001:	.0415 MGD
Outfall 004:	144.8 MGD

To place lower daily effluent loading limitations would severely affect plant operations and capacity to generate electricity.

It should be noted that the plant routinely adds small amounts of water treatment chemicals such as hydrazine to the feedwater for the plant auxiliary boilers. Chemical additives are provided on the Form 2C for each outfall. The plant requests the Agency's approval to use these additives in its water treatment programs.

If you have questions or require additional information, please contact Donna Tizzano at (216) 280-5514.

Very truly yours,

DGT:sc

Enclosures

cc: USNRC Document Control Desk (Docket No. 50-440)
USNRC Region III
NRC Resident Inspector Office
NRC Project Manager

ATTACHMENTS: (BLOCK FLOW DIAGRAM)

(FORM 1)

(FROM 2C, PAGES 1-4)

(3 FORM 2C'S, PAGES V-1 THRU V-9)

(USGS MAP - PERRY QUADRANGLE)

(ELECTROANALYTICAL LAB DATA)

(QUANTERRA DATA)

($100.00 CHECK)

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 Nr

FORM 1 GENERAL

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

F O H 0 0 6 3 4 6

LABEL ITEMS

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill—in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill—in area(s) below. If the label is complete and correct, you 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	
C. Is this a facility which currently results in discharges to **waters of the U.S.** other than those described in A or B above? (FORM 2C)	X		X	D. Is this a proposed facility *(other than those described in A or B above)* which will result in a **discharge** to **waters of the U.S.**? (FORM 2D)		X	
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	
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	
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	

III. NAME OF FACILITY

1. SKIP: P E R R Y N U C L E A R P O W E R P L A N T

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*	B. PHONE *(area code & no.)*
2. T I Z Z A N O D O N N A E N V I R O N M E N T A L I S T	2 1 6 | 2 8 0 | 5 5 1 4

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX

3. P O B O X 9 7

B. CITY OR TOWN	C. STATE	D. ZIP CODE
4. P E R R Y	O H	4 4 0 8 1

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

5. 1 0 C E N T E R R O A D E 2 4 0

B. COUNTY NAME

L A K E

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE *(if known)*
6. N O R T H P E R R Y V I L L A G E	O H	4 4 0 8 1	

CONTINUE ON REVERSE

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

A. FIRST: 4911 (specify) Generation, transmission and distribution of electricity for sale.

B. SECOND: (specify)

C. THIRD: (specify)

D. FOURTH: (specify)

VIII. OPERATOR INFORMATION

A. NAME: CLEVELAND ELECTRIC ILLUMINATING CO.

B. Is the name listed in Item VIII-A also the owner? [X] 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.): A 216 259 3737

E. STREET OR P.O. BOX: PO BOX 97,

F. CITY OR TOWN: B PERRY

G. STATE: OH

H. ZIP CODE: 44081

IX. INDIAN LAND

Is the facility located on Indian lands? [ ] YES [X] NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water): 9 N 3IB00016*CD

D. PSD (Air Emissions from Proposed Sources): 9 P 024312092 2B00 — 1,2 Auxilliary Boilers

B. UIC (Underground Injection of Fluids): 9 U

E. OTHER (specify): 9 0243120922L00 — (specify) 1,2 Freon Tool Cleaner

C. RCRA (Hazardous Wastes): 9 R OHD025673518

E. OTHER (specify): 9 0243120922D00 — (specify) 1 Radkleen 30 drycleaning machine

XI. MAP

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

XII. NATURE OF BUSINESS (provide a brief description)

Generation, transmission and distribution of electricity for sale.

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)
Donald C. Shelton
Senior Vice President, Nuclear

B. SIGNATURE

C. DATE SIGNED

COMMENTS FOR OFFICIAL USE ONLY

C

Please print or type in the unshaded areas only.

EPA I.D. NUMBER (copy from Item 1 of Form 1): OH0063466

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

FORM 2C NPDES

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO 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. LONGITUDE			D. RECEIVING WATER (name)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
001	41	48	00	81	08	45	Plant Service Water Systems
002	41	48	15	81	08	30	Plant Circul. Water Systems
004	41	48	30	81	08	45	Lake Erie
800	41	48	15	81	08	30	(intake)

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

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

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

1. OUTFALL NO. (list)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
001	Regenerant neutralization	0.0189 MGD	neutralization	2-K	
002	Chemical Cleaning waste treatment lagoon	none (batch process)	sedimentation	1-U	
004	Plant Discharge including cooling tower (blowdown, sodium hypochlorite addition, radioactive waste discharge and lime & ferrous sulfite addition for water treatment)	58.7 MGD	Sodium Sulfite Dechlorination coagulation filtration Ion exchange Calgon H-130 Molluskicide treatment Betz DE-1519 Cooling Water treatment	2-E 2-D 1-P 2-J	
800	Plant water intake	99.36 MGD			

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

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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)*

1. OUTFALL NUMBER *(list)*	2. OPERATION(S) CONTRIBUTING FLOW *(list)*	3. FREQUENCY a. DAYS PER WEEK *(specify average)*	3. FREQUENCY b. MONTHS PER YEAR *(specify average)*	4. FLOW a. FLOW RATE *(in mgd)* 1. LONG TERM AVERAGE	4. FLOW a. FLOW RATE *(in mgd)* 2. MAXIMUM DAILY	4. FLOW b. TOTAL VOLUME *(specify with units)* 1. LONG TERM AVERAGE	4. FLOW b. TOTAL VOLUME *(specify with units)* 2. MAXIMUM DAILY	4. FLOW c. DURATION *(in days)*
001	Regenerate Neutralization	1	12	0.0189	0.0419	.98 MG	2.18 MG	2-4 hrs. discharge
004	Radwaste discharge	4	12	0.036	0.100	7.49 MG	20.4, MG	2-4 hrs. discharge

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

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, 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 PROJECT	4. FINAL COMPLIANCE DATE a. REQUIRED	4. FINAL COMPLIANCE DATE b. PROJECTED

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

ONTINUE ON PAGE

CONTINUED FROM PAGE 2

EPA I.D. NUMBER (copy from Item 1 of Form 1)
OH0063461

V. INTAKE AND EFFLUENT CHARACTERISTICS

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

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

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
Asbestos	Outfall 004 - Unit 1 cooling tower fill material, made up of cement boards containing 10-15% nonfriable asbestos. The estimated weight is 1,400,000 - 2,100,000 lbs. of asbestos in the cement boards.		

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)*

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. BIOLOGICAL TOXICITY TESTING DATA

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

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

Acute toxicity testing: 48 hour

Static acute - Daphnia

96 hour static acute - fathead minnow

for zebra mussel molluskicide application compliance verification

II.CONTRACT ANALYSIS INFORMATION

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

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

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
Quanterra Incorporated	4101 Shuffle Drive, NW North Canton, OH 44720	(216) 497-9396	See attached Analyses
Electro Analytical Laboratory	7118 Industrial Park Blvd. Mentor, OH 44060	(216) 951-3514	See attached Analyses

K. 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. PHONE NO. *(area code & no.)*
Donald C. Shelton Senior Vice President, Nuclear	(216) 259-3737
C. SIGNATURE	D. DATE SIGNED

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

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: OH006346

OUTFALL NO.: 001

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

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

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	3. UNITS (specify if blank) a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	<3.0	<1.0					1	mg/L	PPD	< 3.0	< 2489	1
b. Chemical Oxygen Demand *(COD)*	35.	12.					1	mg/L	PPD	< 20.	< 16593	1
c. Total Organic Carbon *(TOC)*	9.1	3.1					1	mg/L	PPD	1.8	1493	1
d. Total Suspended Solids *(TSS)*	125	44			37.	13.	72	mg/L	PPD	1.6	1327	1
e. Ammonia *(as N)*	2.4	1					1	mg/L	PPD	.34	282	1
f. Flow	VALUE 0.0419		VALUE		VALUE 0.0189		NA	MGD	N/A	VALUE 99.36		N/A
g. Temperature *(winter)*	VALUE		VALUE		VALUE		NA	°C		VALUE .72		N/A
h. Temperature *(summer)*	VALUE		VALUE		VALUE		NA	°C		VALUE 25		N/A
i. pH	MINIMUM 6.8	MAXIMUM 8.8	MINIMUM	MAXIMUM			18	STANDARD UNITS				

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

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		40	13.988					1	mg/L	PPD	40	33170	1
b. Chlorine, Total Residual		X	<0.01	<0.003					1	mg/L	PPD	<.01	< 8.292	1
c. Color	X		300	N/A					1	Pt-Co	N/A	10	8292.5	1
d. Fecal Coliform		X	< 3	N/A					1	Col/100 ml	N/A	< 3	N/A	1
e. Fluoride (16984-48-8)	X		0.6	0.21					1	mg/L	PPD	0.1	82.92	1
f. Nitrate-Nitrite *(as N)*	X		3.7	1.294					1	mg/L	PPD	0.5	414.63	1

CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT #001

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)	X		2	0.6994					1	mg/L	PPD	< 1	< 829.25	1
h. Oil and Grease		X	< 5	<1.75					1	mg/L	PPD	< 4	< 3522	1
i. Phosphorus (as P), Total (7723-14-0)	X		< 0.1	<0.035					1	mg/L	PPD	0.4	331.70	1
j. Radioactivity														
(1) Alpha, Total		X	< 40	NA					1	pCi/L	NA	< 3	NA	1
(2) Beta, Total		X	< 60	NA					1	pCi/L	NA	< 5	NA	1
(3) Radium, Total		X	< 2	NA					1	pCi/L	NA	< 4	NA	1
(4) Radium 226, Total		X	0.1+/- 0.1	NA					1	pCi/L	NA	< 0.1	NA	1
k. Sulfate (as SO_4) (14808-79-8)	X		< 500	< 174.8					1	mg/L	PPD	18	14926	1
l. Sulfide (as S)	X		1.5	0.524					1	mg/L	PPD	< 0.1	<82.92	1
m. Sulfite (as SO_3) (14265-45-3)		X	< 1	< 0.3497					1	mg/L	PPD	< 1	<829.2	1
n. Surfactants		X	< 0.05	< 0.0175					1	mg/L	PPD	< .05	<41.4	1
o. Aluminum, Total (7429-90-5)	X		0.59	0.206					1	mg/L	PPD	< 0.2	<166	1
p. Barium, Total (7440-39-3)		X	< 0.2	< 0.07					1	mg/L	PPD	< 0.2	<166	1
q. Boron, Total (7440-42-8)		X	< 0.2	< 0.07					1	mg/L	PPD	< 0.2	<166	1
r. Cobalt, Total (7440-48-4)		X	< 0.04	< 0.014					1	mg/L	PPD	< 0.04	<33.1	1
s. Iron, Total (7439-89-6)	X		10.1	3.532					1	mg/L	PPD	0.22	182.44	1
t. Magnesium, Total (7439-95-4)	X		51.4	17.97					1	mg/L	PPD	7.9	6551.1	1
u. Molybdenum, Total (7439-98-7)		X	< 0.03	< 0.01					1	mg/L	PPD	< 0.03	<24.9	1
v. Manganese, Total (7439-96-5)	X		0.038	0.013					1	mg/L	PPD	< 0.01	<8.292	1
w. Tin, Total (7440-31-5)		X	< 1	< 0.3497					1	mg/L	PPD	< .1	<829.2	1
x. Titanium, Total (7440-32-6)		X	< 0.021	< 0.007					1	mg/L	PPD	< 0.5	<414.6	1

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
OH006346	001

CONTINUED FROM PAGE 3 OF FORM 2-C

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

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS														
M. Antimony, Total (7440-36-0)	X		X	< 0.5	< 0.175					1	mg/L	PPD	< 0.5	< 414	1
M. Arsenic, Total (7440-38-2)	X		X	< 0.03	< 0.01					1	mg/L	PPD	< 0.003	< 2.49	1
M. Beryllium, Total, 7440-41-7)	X		X	< 0.005	< 0.001					1	mg/L	PPD	< 0.005	< 4.14	1
M. Cadmium, Total (7440-43-9)	X		X	< 0.005	< 0.001					1	mg/L	PPD	< 0.005	< 4.14	1
M. Chromium, Total (7440-47-3)	X		X	< 0.01	< 0.003					1	mg/L	PPD	< 0.01	< 8.29	1
M. Copper, Total (7440-50-8)	X		X	< 0.04	< 0.014					1	mg/L	PPD	< 0.02	< 16.6	1
M. Lead, Total (7439-92-1)	X		X	< 0.15	< 0.05					1	mg/L	PPD	< 0.05	< 41.4	1
M. Mercury, Total (7439-97-6)	X		X	< 0.002	< 0.0007					1	mg/L	PPD	< .0002	< 0.166	1
M. Nickel, Total (7440-02-0)	X		X	< 0.06	< 0.02					1	mg/L	PPD	< 0.03	< 24.9	1
M. Selenium, Total (7782-49-2)	X		X	< 0.04	< 0.014					1	mg/L	PPD	< 0.004	< 3.31	1
M. Silver, Total (7440-22-4)	X		X	< 0.01	< 0.003					1	mg/L	PPD	< 0.01	< 8.29	1
M. Thallium, Total (7440-28-0)	X		X	< 0.3	< 0.1					1	mg/L	PPD	< 0.3	< 249	1
M. Zinc, Total (7440-66-6)	X		X	< 0.06	< 0.02					1	mg/L	PPD	< 0.02	< 16.6	1
M. Cyanide, Total (57-12-5)	X		X	< 0.005	< 0.001					1	mg/L	PPD	< 0.005	< 4.14	1
M. Phenols, Total	X		X	< 0.005	< 0.001					1	mg/L	PPD	< 0.005	< 4.14	1
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS															
V. Acrolein 107-02-8)	X		X	< 100	0.035					1	ug/L	PPD	< 100	< 82.9	1
V. Acrylonitrile 107-13-1)	X		X	< 100	0.035					1	ug/L	PPD	< 100	< 82.9	1
V. Benzene 71-43-2)	X		X	< 5	0.002					1	ug/L	PPD	< 5	< 4.14	1
V. Bis (Chloroethyl) Ether 542-88-1)			X	NA	NA					0	ug/L	PPD	N/A	N/A	1
V. Bromoform 75-25-2)	X		X	< 5	0.002					1	ug/L	PPD	< 5	< 4.14	1
V. Carbon Tetrachloride 56-23-5)	X		X	< 5	0.002					1	ug/L	PPD	< 5	< 4.14	1
V. Chlorobenzene 108-90-7)	X		X	< 5	0.002					1	ug/L	PPD	< 5	< 4.14	1
V. Chlorodibromomethane 124-48-1)	X		X	< 5	0.002					1	ug/L	PPD	< 5	< 4.14	1
V. Chloroethane 75-00-3)	X		X	< 10	0.003					1	ug/L	PPD	< 10	< 8.29	1
0V. 2-Chloroethylvinyl Ether 110-75-8)	X		X	< 10	0.003					1	ug/L	PPD	< 10	< 8.29	1
1V. Chloroform 67-66-3)	X		X	< 5	0.002					1	ug/L	PPD	< 5	< 4.14	1
2V. Dichlorobromomethane 75-27-4)	X		X	< 5	0.002					1	ug/L	PPD	< 5	< 4.14	1
3V. Dichlorodifluoromethane 75-71-8)			X	NA	NA					0	ug/L	PPD	N/A	N/A	1
4V. 1,1-Dichloroethane (75-34-3)	X		X	< 5	0.002					1	ug/L	PPD	< 5	< 4.14	1
5V. 1,2-Dichloroethane (107-06-2)	X		X	< 5	0.002					1	ug/L	PPD	< 5	< 4.14	1
6V. 1,1-Dichloroethylene (75-35-4)	X		X	< 5	0.002					1	ug/L	PPD	< 5	< 4.14	1
7V. 1,2-Dichloropropane (78-87-5)	X		X	< 5	0.002					1	ug/L	PPD	< 5	< 4.14	1
8V. 1,3-Dichloropropylene (542-75-6)	X		X	< 5	0.002					1	ug/L	PPD	< 5	< 4.14	1
9V. Ethylbenzene 100-41-4)	X		X	< 5	0.002					1	ug/L	PPD	< 5	< 4.14	1
0V. Methyl Bromide (74-83-9)	X		X	< 10	0.003					1	ug/L	PPD	< 10	< 8.29	1
1V. Methyl Chloride (74-87-3)	X		X	< 10	0.003					1	ug/L	PPD	< 10	< 8.29	1

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1. POLLUTANT AND CAS NUMBER (if available)	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 (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)															
2V. Methylene hloride (75-09-2)	X		X	< 10	< 0.003					1	ug/L	PPD	< 5	< 4.14	1
3V. 1,1,2,2-Tetra-hloroethane 79-34-5)	X		X	< 5	< 0.002					1	ug/L	PPD	< 5	< 4.14	1
4V. Tetrachloro-thylene (127-18-4)	X		X	< 5	< 0.002					1	ug/L	PPD	< 5	< 4.14	1
5V. Toluene 108-88-3)	X		X	< 5	< 0.002					1	ug/L	PPD	< 5	< 4.14	1
6V. 1,2-Trans-ichloroethylene 156-60-5)	X		X	< 5	< 0.002					1	ug/L	PPD	< 5	< 4.14	1
7V. 1,1,1-Tri-hloroethane 71-55-6)	X		X	< 5	< 0.002					1	ug/L	PPD	< 5	< 4.14	1
8V. 1,1,2-Tri-hloroethane 79-00-5)	X		X	< 5	< 0.002					1	ug/L	PPD	< 5	< 4.14	1
9V. Trichloro-thylene (79-01-6)	X		X	< 5	< 0.002					1	ug/L	PPD	< 5	< 4.14	1
0V. Trichloro-uoromethane 75-69-4)			X	NA	NA					0	ug/L	PPD	NA	NA	1
1V. Vinyl hloride (75-01-4)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
GC/MS FRACTION – ACID COMPOUNDS															
A. 2-Chlorophenol 95-57-8)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
A. 2,4-Dichloro-henol (120-83-2)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
A. 2,4-Dimethyl-henol (105-67-9)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
A. 4,6-Dinitro-O-resol (534-52-1)	X		X	< 50	< 0.02					1	ug/L	PPD	< 50	< 41.4	1
A. 2,4-Dinitro-henol (51-28-5)	X		X	< 50	< 0.02					1	ug/L	PPD	< 50	< 41.4	1
A. 2-Nitrophenol 88-75-5)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
A. 4-Nitrophenol 100-02-7)	X		X	< 50	< 0.02					1	ug/L	PPD	< 50	< 41.4	1
A. P-Chloro-M-resol (59-50-7)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
A. Pentachloro-henol (87-86-5)	X		X	< 50	< 0.02					1	ug/L	PPD	< 50	< 41.4	1
0A. Phenol 108-95-2)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
1A. 2,4,6-Tri-hlorophenol 88-06-2)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1

CONTINUED FROM THE FRONT #001

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
2B. Acenaphtylene (208-96-8)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
3B. Anthracene (120-12-7)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
4B. Benzidine (92-87-5)	X		X	< 50	< 0.02					1	ug/L	PPD	< 10	< 41.4	1
5B. Benzo (a) Anthracene (56-55-3)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
6B. Benzo (a) Pyrene (50-32-8)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
7B. 3,4-Benzo-fluoranthene (205-99-2)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
8B. Benzo (ghi) Perylene (191-24-2)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
9B. Benzo (k) Fluoranthene (207-08-9)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
12B. Bis (2-Chloroiso-propyl) Ether (102-60-1)	X		X	25	0.0087					1	ug/L	PPD	< 10	< 8.29	1
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
15B. Butyl Benzyl Phthalate (85-68-7)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
16B. 2-Chloro-naphthalene (91-58-7)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
18B. Chrysene (218-01-9)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
19B. Dibenzo (a,h) Anthracene (53-70-3)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
20B. 1,2-Dichloro-benzene (95-50-1)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
21B. 1,3-Dichloro-benzene (541-73-1)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	2. MARK 'X' b. BELIEVED PRESENT	2. MARK 'X' c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-46-7)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
23B. 3,3'-Dichlorobenzidine (91-94-1)	X		X	< 20	< 0.007					1	ug/L	PPD	< 20	< 16.6	1
24B. Diethyl Phthalate (84-66-2)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
25B. Dimethyl Phthalate (131-11-3)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
26B. Di-N-Butyl Phthalate (84-74-2)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
27B. 2,4-Dinitrotoluene (121-14-2)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
28B. 2,6-Dinitrotoluene (606-20-2)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
29B. Di-N-Octyl Phthalate (117-84-0)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
31B. Fluoranthene (206-44-0)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
32B. Fluorene (86-73-7)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
33B. Hexachlorobenzene (118-74-1)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
34B. Hexachlorobutadiene (87-68-3)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
35B. Hexachlorocyclopentadiene (77-47-4)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
36B. Hexachloroethane (67-72-1)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
38B. Isophorone (78-59-1)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
39B. Naphthalene (91-20-3)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
40B. Nitrobenzene (98-95-3)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
41B. N-Nitrosodimethylamine (62-75-9)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
42B. N-Nitrosodi-N-Propylamine (621-64-7)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1

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CONTINUED FROM THE FRONT #001

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
38. N-Nitrodiphenylamine (86-30-6)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
48. Phenanthrene (85-01-8)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
58. Pyrene (129-00-0)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
68. 1,2,4-Trichlorobenzene (120-82-1)	X		X	< 10	< 0.003					1	ug/L	PPD	< 10	< 8.29	1
GC/MS FRACTION – PESTICIDES															
P. Aldrin (309-00-2)			X												
P. α-BHC (319-84-6)			X												
P. β-BHC (319-85-7)			X												
P. γ-BHC (58-89-9)			X												
P. δ-BHC (319-86-8)			X												
P. Chlordane (57-74-9)			X												
P. 4,4'-DDT (50-29-3)			X												
P. 4,4'-DDE (72-55-9)			X												
P. 4,4'-DDD (72-54-8)			X												
0P. Dieldrin (60-57-1)			X												
1P. α-Endosulfan (115-29-7)			X												
2P. β-Endosulfan (115-29-7)			X												
3P. Endosulfan ulfate (1031-07-8)			X												
4P. Endrin (72-20-8)			X												
5P. Endrin ldehyde (7421-93-4)			X												
6P. Heptachlor (76-44-8)			X												

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EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
OH006346	001

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

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

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: OH006346

OUTFALL NO: 004

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

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

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS	c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION	c. LONG TERM AVRG. VALUE *(if available)* (2) MASS	d. NO. OF ANALYSES	3. UNITS *(specify if blank)* a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	< 3.0	< 2079					1	mg/L	PPD	< 3.0	< 2489	1
b. Chemical Oxygen Demand *(COD)*	< 20.0	< 13861					1	mg/L	PPD	<20.	<16593	1
c. Total Organic Carbon *(TOC)*	2.6	1665					1	mg/L	PPD	1.8	1493	1
d. Total Suspended Solids *(TSS)*	2.5	1732					1	mg/L	PPD	1.6	1327	1
e. Ammonia *(as N)*	.90	624					1	mg/L	PPD	.34	282	1
f. Flow	VALUE 146.3		VALUE		VALUE 58.7		NA	MGD	NA	VALUE 99.36		NA
g. Temperature *(winter)*	VALUE 12.22		VALUE		VALUE		NA	°C		VALUE .72		NA
h. Temperature *(summer)*	VALUE 28.33		VALUE		VALUE		NA	°C		VALUE 25		NA
i. pH	MINIMUM 8.1	MAXIMUM 8.2	MINIMUM	MAXIMUM			18	STANDARD UNITS				

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

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS	c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION	c. LONG TERM AVRG. VALUE *(if available)* (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		31	37851					1	mg/L	PPD	40	33170	1
b. Chlorine, Total Residual		X	< 0.01	< 12.21					1	mg/L	PPD	< .01	<8.292	1
c. Color	X		10	12210					1	Pt-Co	NA	10	8292.5	1
d. Fecal Coliform		X	< 3	NA					1	col/100ml	NA	< 3	NA	1
e. Fluoride (16984-48-8)	X		0.1	1221					1	mg/L	PPD	0.1	82.92	1
f. Nitrate-Nitrite *(as N)*	X		0.7	854.7					1	mg/L	PPD	0.5	414.63	1

CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT #004

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X' a. BELIEVED PRESENT	b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)	X		2	2441.9					1	mg/L	PPD	< 1	<829.25	1
h. Oil & Grease		X	< 4	4884					1	mg/L	PPD	< 4	< 3522	1
i. Phosphorus (as P), Total (7723-14-0)	X		1.8	2198					1	mg/L	PPD	0.4	331.70	1
j. Radioactivity														
(1) Alpha, Total		X	< 3	NA					1	pCi/L	NA	< 3	NA	1
(2) Beta, Total		X	< 5	NA					1	pCi/L	NA	< 5	NA	1
(3) Radium, Total		X	< 2	NA					1	pCi/L	NA	< 4	NA	1
(4) Radium 226, Total		X	0.1 +/- 0.1	NA					1	pCi/L	NA	< 0.1	NA	1
k. Sulfate (as SO_4) (14808-79-8)	X		27	32967					1	mg/L	PPD	18	14926	1
l. Sulfide (as S)	X		1.5	1831					1	mg/L	PPD	< 0.1	<82.92	1
m. Sulfite (as SO_3) (14265-45-3)		X	< 1	1220					1	mg/L	PPD	< 1	829.2	1
n. Surfactants		X	< 0.05	60.1					1	mg/L	PPD	< .05	<41.4	1
o. Aluminum, Total (7429-90-5)		X	< 0.2	244					1	mg/L	PPD	< 0.2	< 166	1
p. Barium, Total (7440-39-3)		X	< 0.2	244					1	mg/L	PPD	< 0.2	< 166	1
q. Boron, Total (7440-42-8)		X	< 0.2	244					1	mg/L	PPD	< 0.2	< 166	1
r. Cobalt, Total (7440-48-4)		X	< 0.04	48.8					1	mg/L	PPD	< 0.04	<33.1	1
s. Iron, Total (7439-89-6)	X		0.12	146.5					1	mg/L	PPD	0.22	182.44	1
t. Magnesium, Total (7439-95-4)	X		10.9	13308.					1	mg/L	PPD	7.9	6551.1	1
u. Molybdenum, Total (7439-98-7)		X	< 0.03	36.6					1	mg/L	PPD	< 0.03	<24.9	1
v. Manganese, Total (7439-96-5)		X	< 0.01	12.2					1	mg/L	PPD	< 0.01	<8.292	1
w. Tin, Total (7440-31-5)		X	< 1	1221.0					1	mg/L	PPD	< .1	<829.2	1
x. Titanium, Total (7440-32-6)		X	< 0.010	12.2					1	mg/L	PPD	< 0.5	<414.6	1

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OH006346	004

CONTINUED FROM PAGE 3 OF FORM 2-C

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

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS															
M. Antimony, otal (7440-36-0)	X		X	< 0.5	< 6.09					1	mg/L	PPD	< 0.5	< 414	1
M. Arsenic, Total 7440-38-2)	X		X	< 0.003	< 3.66					1	mg/L	PPD	< 0.003	< 2.49	1
M. Beryllium, otal, 7440-41-7)	X		X	< 0.005	< 6.09					1	mg/L	PPD	< 0.005	< 4.14	1
M. Cadmium, otal (7440-43-9)	X		X	< 0.005	< 6.09					1	mg/L	PPD	< 0.005	< 4.14	1
M. Chromium, otal (7440-47-3)	X		X	< 0.01	< 12.21					1	mg/L	PPD	< 0.01	< 8.29	1
M. Copper, Total 440-50-8)	X		X	< 0.02	< 24.41					1	mg/L	PPD	< 0.02	< 16.6	1
M. Lead, Total 439-92-1)	X		X	< 0.05	< 60.98					1	mg/L	PPD	< 0.05	< 41.4	1
M. Mercury, Total 439-97-6)	X		X	< 0.0002	< .244					1	mg/L	PPD	< 0.0002	< 0.166	1
M. Nickel, Total 440-02-0)	X		X	< 0.03	< 36.63					1	mg/L	PPD	< 0.03	< 24.9	1
OM. Selenium, otal (7782-49-2)	X		X	< 0.004	< 4.88					1	mg/L	PPD	< 0.004	< 3.31	1
1M. Silver, Total 440-22-4)	X		X	< 0.01	< 12.21					1	mg/L	PPD	< 0.01	< 8.29	1
2M. Thallium, otal (7440-28-0)	X		X	< 0.3	< 366.3					1	mg/L	PPD	< 0.3	< 249	1
3M. Zinc, Total 440-66-6)	X		X	< 0.02	< 24.41					1	mg/L	PPD	< 0.02	< 16.6	1
4M. Cyanide, otal (57-12-5)	X		X	< 0.005	< 6.09					1	mg/L	PPD	< 0.005	< 4.14	1
5M. Phenols, otal	X		X	< 0.005	< 6.09					1	mg/L	PPD	< 0.005	< 4.14	1
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT #004

1. POLLUTANT AND CAS NUMBER (If available)	2. MARK			3. EFFLUENT				4. UNITS			5. INTAKE (optional)		
	a. TEST(S) REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	a. NO. OF ANALYSES	b. CONCENTRATION	c. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS													
1V. Acrolein (107-02-8)	X		X	< 100	122.1			1	ug/L	PPD	<100	<82.9	1
2V. Acrylonitrile (107-13-1)	X		X	< 100	122.1			1	ug/L	PPD	<100	<82.9	1
3V. Benzene (71-43-2)	X		X	< 5	6.09			1	ug/L	PPD	< 5	< 4.14	1
4V. Bis (Chloromethyl) Ether (542-88-1)			X	NA	NA			0	ug/L	PPD	N/A	N/A	1
5V. Bromoform (75-25-2)	X		X	< 5	6.09			1	ug/L	PPD	< 5	<4.14	1
6V. Carbon Tetrachloride (56-23-5)	X		X	< 5	6.09			1	ug/L	PPD	< 5	<4.14	1
7V. Chlorobenzene (108-90-7)	X		X	< 5	6.09			1	ug/L	PPD	< 5	<4.14	1
8V. Chlorodibromomethane (124-48-1)	X		X	< 5	6.09			1	ug/L	PPD	< 5	<4.14	1
9V. Chloroethane (75-00-3)	X		X	< 10	12.21			1	ug/L	PPD	<10	<8.29	1
10V. 2-Chloroethylvinyl Ether (110-75-8)	X		X	< 10	12.21			1	ug/L	PPD	<10	<8.29	1
11V. Chloroform (67-66-3)	X		X	4.3[J]	5.25			1	ug/L	PPD	< 5	<4.14	1
12V. Dichlorobromomethane (75-27-4)	X		X	2.1[J]	2.55			1	ug/L	PPD	< 5	<4.14	1
13V. Dichlorodifluoromethane (75-71-8)			X	NA	NA			0	ug/L	PPD	N/A	N/A	1
14V. 1,1-Dichloroethane (75-34-3)	X		X	< 5	6.09			1	ug/L	PPD	< 5	<4.14	1
15V. 1,2-Dichloroethane (107-06-2)	X		X	< 5	6.09			1	ug/L	PPD	< 5	<4.14	1
16V. 1,1-Dichloroethylene (75-35-4)	X		X	< 5	6.09			1	ug/L	PPD	< 5	<4.14	1
17V. 1,2-Dichloropropane (78-87-5)	X		X	< 5	6.09			1	ug/L	PPD	< 5	<4.14	1
18V. 1,3-Dichloropropylene (542-75-6)	X		X	< 5	6.09			1	ug/L	PPD	< 5	<4.14	1
19V. Ethylbenzene (100-41-4)	X		X	< 5	6.09			1	ug/L	PPD	< 5	<4.14	1
20V. Methyl Bromide (74-83-9)	X		X	< 10	12.21			1	ug/L	PPD	<10	<8.29	1
21V. Methyl Chloride (74-87-3)	X		X	< 10	12.21			1	ug/L	PPD	<10	<8.29	1

CONTINUE ON PAGE V-5

J=Estimated value; detected, but below quantitation limit.

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	2. MARK 'X' b. BELIEVED PRESENT	2. MARK 'X' c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)															
12V. Methylene Chloride (75-09-2)	X		X	< 10	< 12.21					1	ug/L	PPD	< 5	< 4.14	1
13V. 1,1,2,2-Tetrachloroethane (79-34-5)	X		X	< 5	< 6.09					1	ug/L	PPD	< 5	< 4.14	1
14V. Tetrachloroethylene (127-18-4)	X		X	< 5	< 6.09					1	ug/L	PPD	< 5	< 4.14	1
15V. Toluene (108-88-3)	X		X	< 5	< 6.09					1	ug/L	PPD	< 5	< 4.14	1
16V. 1,2-Trans-Dichloroethylene (156-60-5)	X		X	< 5	< 6.09					1	ug/L	PPD	< 5	< 4.14	1
17V. 1,1,1-Trichloroethane (71-55-6)	X		X	< 5	< 6.09					1	ug/L	PPD	< 5	< 4.14	1
18V. 1,1,2-Trichloroethane (79-00-5)	X		X	< 5	< 6.09					1	ug/L	PPD	< 5	< 4.14	1
19V. Trichloroethylene (79-01-6)	X		X	< 5	< 6.09					1	ug/L	PPD	< 5	< 4.14	1
20V. Trichlorofluoromethane (75-69-4)			X	NA	NA					0	ug/L	PPD	NA	NA	1
21V. Vinyl Chloride (75-01-4)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
2A. 2,4-Dichlorophenol (120-83-2)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
3A. 2,4-Dimethylphenol (105-67-9)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
4A. 4,6-Dinitro-O-Cresol (534-52-1)	X		X	< 50	< 60.9					1	ug/L	PPD	< 50	< 41.4	1
5A. 2,4-Dinitrophenol (51-28-5)	X		X	< 50	< 60.9					1	ug/L	PPD	< 50	< 41.4	1
6A. 2-Nitrophenol (88-75-5)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
7A. 4-Nitrophenol (100-02-7)	X		X	< 50	< 60.9					1	ug/L	PPD	< 50	< 41.4	1
8A. P-Chloro-M-Cresol (59-50-7)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
9A. Pentachlorophenol (87-86-5)	X		X	< 50	< 60.9					1	ug/L	PPD	< 50	< 41.4	1
10A. Phenol (108-95-2)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
11A. 2,4,6-Trichlorophenol (88-06-2)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT #004

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
2B. Acenaphtylene (208-96-8)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
3B. Anthracene (120-12-7)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
4B. Benzidine (92-87-5)	X		X	< 50	< 60.9					1	ug/L	PPD	< 10	< 41.4	1
5B. Benzo (a) Anthracene (56-55-3)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
6B. Benzo (a) Pyrene (50-32-8)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
7B. 3,4-Benzo-fluoranthene (205-99-2)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
8B. Benzo (ghi) Perylene (191-24-2)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
9B. Benzo (k) Fluoranthene (207-08-9)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
12B. Bis (2-Chloroiso-propyl) Ether (102-60-1)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
15B. Butyl Benzyl Phthalate (85-68-7)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
16B. 2-Chloro-naphthalene (91-58-7)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
18B. Chrysene (218-01-9)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
19B. Dibenzo (a,h) Anthracene (53-70-3)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
20B. 1,2-Dichloro-benzene (95-50-1)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
21B. 1,3-Dichloro-benzene (541-73-1)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1

CONTINUE ON PAGE V-7

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-46-7)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
23B. 3,3'-Dichlorobenzidine (91-94-1)	X		X	< 20	< 24.42					1	ug/L	PPD	< 20	< 16.6	1
24B. Diethyl Phthalate (84-66-2)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
25B. Dimethyl Phthalate (131-11-3)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
26B. Di-N-Butyl Phthalate (84-74-2)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
27B. 2,4-Dinitrotoluene (121-14-2)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
28B. 2,6-Dinitrotoluene (606-20-2)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
29B. Di-N-Octyl Phthalate (117-84-0)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
31B. Fluoranthene (206-44-0)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
32B. Fluorene (86-73-7)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
33B. Hexachlorobenzene (118-74-1)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
34B. Hexachlorobutadiene (87-68-3)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
35B. Hexachlorocyclopentadiene (77-47-4)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
36B. Hexachloroethane (67-72-1)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
38B. Isophorone (78-59-1)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
39B. Naphthalene (91-20-3)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
40B. Nitrobenzene (98-95-3)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
41B. N-Nitrosodimethylamine (62-75-9)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
42B. N-Nitrosodi-N-Propylamine (621-64-7)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT #004

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-6)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
44B. Phenanthrene (85-01-8)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
45B. Pyrene (129-00-0)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
46B. 1,2,4-Trichlorobenzene (120-82-1)	X		X	< 10	< 12.21					1	ug/L	PPD	< 10	< 8.29	1
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Endosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
OH006346	004

CONTINUED FROM PAGE V-8

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

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

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: OH006346

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

OUTFALL NO. 800

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

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	2. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	2. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	2. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	2. EFFLUENT d. NO. OF ANALYSES	3. UNITS (specify if blank) a. CONCENTRATION	3. UNITS (specify if blank) b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE (optional) b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	<3.0	< 2489					1	mg/L	PPD			
b. Chemical Oxygen Demand *(COD)*	< 20.0	<16593					1	mg/L	PPD			
c. Total Organic Carbon *(TOC)*	1.8	1493					1	mg/L	PPD			
d. Total Suspended Solids *(TSS)*	1.6	1327					1	mg/L	PPD			
e. Ammonia *(as N)*	.34	282					1	mg/L	PPD			
f. Flow	VALUE 99.36		VALUE		VALUE 99.36		NA	MGD	N/A	VALUE		
g. Temperature *(winter)*	VALUE .72		VALUE		VALUE		NA	°C		VALUE		
h. Temperature *(summer)*	VALUE 25.0		VALUE		VALUE		NA	°C		VALUE		
i. pH	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM			NA	STANDARD UNITS				

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

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK "X" a. BELIEVED PRESENT	2. MARK "X" b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		40	33170					1	mg/L	PPD			
b. Chlorine, Total Residual		X	<0.01	< 8.292					1	mg/L	PPD			
c. Color	X		10	8292.5					1	Pt-Co	N/A			
d. Fecal Coliform		X	< 3	N/A					1	Col/100 ml	N/A			
e. Fluoride (16984-48-8)	X		0.1	82.92					1	mg/L	PPD			
f. Nitrate-Nitrite *(as N)*	X		0.5	414.63					1	mg/L	PPD			

ITEM V-B CONTINUED FROM FRONT #800

1. POLLUTANT AND CAS NO. (If available)	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	3. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)		X	< 1	< 829.25					1	mg/L	PPD			
h. Oil and Grease		X	< 4	< 3522					1	mg/L	PPD			
i. Phosphorus (as P), Total (7723-14-0)	X		0.4	331.70					1	mg/L	PPD			
j. Radioactivity														
(1) Alpha, Total		X	< 3	NA					1	pCi/L	NA			
(2) Beta, Total		X	< 5	NA					1	pCi/L	NA			
(3) Radium, Total		X	< 4	NA					1	pCi/L	NA			
(4) Radium 226, Total		X	< 0.1	NA					1	pCi/L	NA			
k. Sulfate (as SO_4) (14808-79-8)	X		18	14926					1	mg/L	PPD			
l. Sulfide (as S)			< 0.1	< 82.92					1	mg/L	PPD			
m. Sulfite (as SO_3) (14265-45-3)		X	< 1	< 829.2					1	mg/L	PPD			
n. Surfactants		X	< 0.05	< 41.4					1	mg/L	PPD			
o. Aluminum, Total (7429-90-5)			< 0.2	< 166					1	mg/L	PPD			
p. Barium, Total (7440-39-3)		X	< 0.2	< 166					1	mg/L	PPD			
q. Boron, Total (7440-42-8)		X	< 0.2	< 166					1	mg/L	PPD			
r. Cobalt, Total (7440-48-4)		X	< 0.04	< 33.1					1	mg/L	PPD			
s. Iron, Total (7439-89-6)	X		0.22	182.44					1	mg/L	PPD			
t. Magnesium, Total (7439-95-4)	X		7.9	6551.1					1	mg/L	PPD			
u. Molybdenum, Total (7439-98-7)		X	< 0.03	< 24.9					1	mg/L	PPD			
v. Mangsnese, Total (7439-96-5)			< 0.01	< 8.292					1	mg/L	PPD			
w. Tin, Total (7440-31-5)		X	< 1	< 829.2					1	mg/L	PPD			
x. Titanium, Total (7440-32-6)		X	< 0.5	< 414.6					1	mg/L	PPD			

CONTINUE ON PAGE V-3

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
OH006346	800

NTINUED FROM PAGE 3 OF FORM 2-C

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

POLLUTANT AND CAS NUMBER (If available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS														
Antimony, Total (7440-36-0)	X		X	< 0.5	< 414					1	mg/L	PPD			
Arsenic, Total (7440-38-2)	X		X	< 0.003	< 2.49					1	mg/L	PPD			
Beryllium, Total, 7440-41-7)	X		X	< 0.005	< 4.14					1	mg/L	PPD			
Cadmium, Total (7440-43-9)	X		X	< 0.005	< 4.14					1	mg/L	PPD			
Chromium, Total (7440-47-3)	X		X	< 0.01	< 8.29					1	mg/L	PPD			
Copper, Total (7440-50-8)	X		X	< 0.02	< 16.6					1	mg/L	PPD			
Lead, Total (7439-92-1)	X		X	< 0.05	< 41.4					1	mg/L	PPD			
Mercury, Total (7439-97-6)	X		X	< 0.0002	< 0.166					1	mg/L	PPD			
Nickel, Total (7440-02-0)	X		X	< 0.03	< 24.9					1	mg/L	PPD			
Selenium, Total (7782-49-2)	X		X	< 0.004	< 3.31					1	mg/L	PPD			
Silver, Total (7440-22-4)	X		X	< 0.01	< 8.29					1	mg/L	PPD			
Thallium, Total (7440-28-0)	X		X	< 0.3	< 249					1	mg/L	PPD			
Zinc, Total (7440-66-6)	X		X	< 0.02	< 16.6					1	mg/L	PPD			
Cyanide, Total (57-12-5)	X		X	< 0.005	< 4.14					1	mg/L	PPD			
Phenols, Total	X		X	< 0.005	< 4.14					1	mg/L	PPD			
DIOXIN														
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS										

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT #800

1. POLLUTANT AND CAS NUMBER (if available)	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 (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)	X		X	< 100	< 82.9					1	ug/L	PPD			
2V. Acrylonitrile (107-13-1)	X		X	< 100	< 82.9					1	ug/L	PPD			
3V. Benzene (71-43-2)	X		X	< 5	< 4.14					1	ug/L	PPD			
4V. Bis (Chloromethyl) Ether (542-88-1)			X	NA	NA					0	ug/L	PPD			
5V. Bromoform (75-25-2)	X		X	< 5	< 4.14					1	ug/L	PPD			
6V. Carbon Tetrachloride (56-23-5)	X		X	< 5	< 4.14					1	ug/L	PPD			
7V. Chlorobenzene (108-90-7)	X		X	< 5	< 4.14					1	ug/L	PPD			
8V. Chlorodibromomethane (124-48-1)	X		X	< 5	< 4.14					1	ug/L	PPD			
9V. Chloroethane (75-00-3)	X		X	< 10	< 8.29					1	ug/L	PPD			
10V. 2-Chloroethylvinyl Ether (110-75-8)	X		X	< 10	< 8.29					1	ug/L	PPD			
11V. Chloroform (67-66-3)	X		X	< 5	< 4.14					1	ug/L	PPD			
12V. Dichlorobromomethane (75-27-4)	X		X	< 5	< 4.14					1	ug/L	PPD			
13V. Dichlorodifluoromethane (75-71-8)			X	NA	NA					0	ug/L	PPD			
14V. 1,1-Dichloroethane (75-34-3)	X		X	< 5	< 4.14					1	ug/L	PPD			
15V. 1,2-Dichloroethane (107-06-2)	X		X	< 5	< 4.14					1	ug/L	PPD			
16V. 1,1-Dichloroethylene (75-35-4)	X		X	< 5	< 4.14					1	ug/L	PPD			
17V. 1,2-Dichloropropane (78-87-5)	X		X	< 5	< 4.14					1	ug/L	PPD			
18V. 1,3-Dichloropropylene (542-75-6)	X		X	< 5	< 4.14					1	ug/L	PPD			
19V. Ethylbenzene (100-41-4)	X		X	< 5	< 4.14					1	ug/L	PPD			
20V. Methyl Bromide (74-83-9)	X		X	< 10	< 8.29					1	ug/L	PPD			
21V. Methyl Chloride (74-87-3)	X		X	< 10	< 8.29					1	ug/L	PPD			

CONTINUE ON PAGE V-5

OH006346 800

TINUED FROM PAGE V-4

POLLUTANT AND CAS NUMBER (If available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (If available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (If available) (2) MASS	c. LONG TERM AVRG. VALUE (If available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (If available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
MS FRACTION – VOLATILE COMPOUNDS (continued)															
Methylene oride (75-09-2)	X		X	< 5	< 4.14					1	ug/L	PPD			
1,1,2,2-Tetra- roethane 34-5)	X		X	< 5	< 4.14					1	ug/L	PPD			
Tetrachloro- ylene (127-18-4)	X		X	< 5	< 4.14					1	ug/L	PPD			
Toluene 3-88-3)	X		X	< 5	< 4.14					1	ug/L	PPD			
1,2-Trans- hloroethylene 6-60-5)	X		X	< 5	< 4.14					1	ug/L	PPD			
1,1,1-Tri- roethane 55-6)	X		X	< 5	< 4.14					1	ug/L	PPD			
1,1,2-Tri- roethane 00-5)	X		X	< 5	< 4.14					1	ug/L	PPD			
Trichloro- ylene (79-01-6)	X		X	< 5	< 4.14					1	ug/L	PPD			
Trichloro- romethane 69-4)			X	NA	NA					0	ug/L	PPD			
Vinyl oride (75-01-4)	X		X	< 10	< 8.29					1	ug/L	PPD			
MS FRACTION – ACID COMPOUNDS															
2-Chlorophenol 7-67-8)	X		X	< 10	< 8.29					1	ug/L	PPD			
2,4-Dichloro- enol (120-83-2)	X		X	< 10	< 8.29					1	ug/L	PPD			
2,4-Dimethyl- enol (105-67-9)	X		X	< 10	< 8.29					1	ug/L	PPD			
4,6-Dinitro-O- esol (534-52-1)	X		X	< 50	< 41.4					1	ug/L	PPD			
2,4-Dinitro- enol (51-28-5)	X		X	< 50	< 41.4					1	ug/L	PPD			
2-Nitrophenol 3-75-5)	X		X	< 10	< 8.29					1	ug/L	PPD			
4-Nitrophenol 0-02-7)	X		X	< 50	< 41.4					1	ug/L	PPD			
P-Chloro-M- esol (59-50-7)	X		X	< 10	< 8.29					1	ug/L	PPD			
Pentachloro- enol (87-86-5)	X		X	< 50	< 41.4					1	ug/L	PPD			
A. Phenol 08-95-2)	X		X	< 10	< 8.29					1	ug/L	PPD			
A. 2,4,6-Tri- lorophenol 8-06-2)	X		X	< 10	< 8.29					1	ug/L	PPD			

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

#800

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
3. Acenaphthene (83-32-9)	X		X	< 10	< 8.29					1	ug/L	PPD			
3. Acenaphtylene (208-96-8)	X		X	< 10	< 8.29					1	ug/L	PPD			
3. Anthracene (120-12-7)	X		X	< 10	< 8.29					1	ug/L	PPD			
8. Benzidine (92-87-5)	X		X	< 50	< 41.4					1	ug/L	PPD			
8. Benzo (a) Anthracene (56-55-3)	X		X	< 10	< 8.29					1	ug/L	PPD			
8. Benzo (a) Pyrene (50-32-8)	X		X	< 10	< 8.29					1	ug/L	PPD			
8. 3,4-Benzo-fluoranthene (205-99-2)	X		X	< 10	< 8.29					1	ug/L	PPD			
8. Benzo (ghi) Perylene (191-24-2)	X		X	< 10	< 8.29					1	ug/L	PPD			
8. Benzo (k) Fluoranthene (207-08-9)	X		X	< 10	< 8.29					1	ug/L	PPD			
10B. Bis (2-Chloroethoxy) Methane (111-91-1)	X		X	< 10	< 8.29					1	ug/L	PPD			
11B. Bis (2-Chloroethyl) Ether (111-44-4)	X		X	< 10	< 8.29					1	ug/L	PPD			
12B. Bis (2-Chloroisopropyl) Ether (102-60-1)	X		X	< 10	< 8.29					1	ug/L	PPD			
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)	X		X	< 10	< 8.29					1	ug/L	PPD			
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	X		X	< 10	< 8.29					1	ug/L	PPD			
15B. Butyl Benzyl Phthalate (85-68-7)	X		X	< 10	< 8.29					1	ug/L	PPD			
16B. 2-Chloronaphthalene (91-58-7)	X		X	< 10	< 8.29					1	ug/L	PPD			
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)	X		X	< 10	< 8.29					1	ug/L	PPD			
18B. Chrysene (218-01-9)	X		X	< 10	< 8.29					1	ug/L	PPD			
19B. Dibenzo (a,h) Anthracene (53-70-3)	X		X	< 10	< 8.29					1	ug/L	PPD			
20B. 1,2-Dichlorobenzene (95-50-1)	X		X	< 10	< 8.29					1	ug/L	PPD			
21B. 1,3-Dichlorobenzene (541-73-1)	X		X	< 10	< 8.29					1	ug/L	PPD			

CONTINUE ON PAGE V-7

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
OH006346	800

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
38. 1,4-Dichlorobenzene (106-46-7)	X		X	< 10	< 8.29					1	ug/L	PPD			
39. 3,3'-Dichlorobenzidine (91-94-1)	X		X	< 20	< 16.6					1	ug/L	PPD			
40. Diethyl phthalate (84-66-2)	X		X	< 10	< 8.29					1	ug/L	PPD			
41. Dimethyl phthalate (131-11-3)	X		X	< 10	< 8.29					1	ug/L	PPD			
42. Di-N-Butyl phthalate (84-74-2)	X		X	< 10	< 8.29					1	ug/L	PPD			
43. 2,4-Dinitrotoluene (121-14-2)	X		X	< 10	< 8.29					1	ug/L	PPD			
44. 2,6-Dinitrotoluene (606-20-2)	X		X	< 10	< 8.29					1	ug/L	PPD			
45. Di-N-Octyl phthalate (117-84-0)	X		X	< 10	< 8.29					1	ug/L	PPD			
46. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	X		X	< 10	< 8.29					1	ug/L	PPD			
47. Fluoranthene (206-44-0)	X		X	< 10	< 8.29					1	ug/L	PPD			
48. Fluorene (86-73-7)	X		X	< 10	< 8.29					1	ug/L	PPD			
49. Hexachlorobenzene (118-74-1)	X		X	< 10	< 8.29					1	ug/L	PPD			
50. Hexachlorobutadiene (87-68-3)	X		X	< 10	< 8.29					1	ug/L	PPD			
51. Hexachlorocyclopentadiene (77-47-4)	X		X	< 10	< 8.29					1	ug/L	PPD			
52. Hexachloroethane (67-72-1)	X		X	< 10	< 8.29					1	ug/L	PPD			
53. Indeno (1,2,3-cd) Pyrene (193-39-5)	X		X	< 10	< 8.29					1	ug/L	PPD			
54. Isophorone (78-59-1)	X		X	< 10	< 8.29					1	ug/L	PPD			
55. Naphthalene (91-20-3)	X		X	< 10	< 8.29					1	ug/L	PPD			
56. Nitrobenzene (98-95-3)	X		X	< 10	< 8.29					1	ug/L	PPD			
57. N-Nitrosodimethylamine (62-75-9)	X		X	< 10	< 8.29					1	ug/L	PPD			
58. N-Nitrosodi-n-Propylamine (621-64-7)	X		X	< 10	< 8.29					1	ug/L	PPD			

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT #800

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-6)	X		X	< 10	<8.29					1	ug/L	PPD			
44B. Phenanthrene (85-01-8)	X		X	< 10	<8.29					1	ug/L	PPD			
45B. Pyrene (129-00-0)	X		X	< 10	<8.29					1	ug/L	PPD			
46B. 1,2,4-Trichlorobenzene (120-82-1)	X		X	< 10	<8.29					1	ug/L	PPD			
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Endosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

CONTINUE ON PAGE V-9

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
OH006346	800

CONTINUED FROM PAGE V-8

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

NUMBER 56-389/412

C636490

CENTERIOR ENERGY INDEPENDENCE, OHIO

THE PARENT COMPANY OF THE CLEVELAND ELECTRIC ILLUMINATING COMPANY AND THE TOLEDO EDISON COMPANY

0951006000218 DATE OCT 09,1995 **********100 DOLLARS 00 AMOUNT 100.00

PAY TO THE ORDER OF

TREASURER STATE OF OHIO
OHIO EPA NE DISTRICT OFFICE
2110 E AURORA ROAD
TWINSBURG OH 44087-1969

CENTERIOR SERVICE COMPANY

Delores Hargrove
Treasurer or Assistant Treasurer

FIRST NATIONAL BANK OF ASHLAND
AN AFFILIATE OF
NATIONAL CITY BANK
CLEVELAND, OHIO

⑈636490⑈ ⑆041203895⑆ 0082114⑈

CENTERIOR SERVICE COMPANY

THE ATTACHED CHECK IS TENDERED IN FULL SETTLEMENT OF ITEMS DETAILED BELOW. IF INCORRECT PLEASE RETURN STATING EXCEPTIONS

YOUR DATE	PURCHASE ORDER NUMBER	OUR REFERENCE	GROSS AMOUNT	DEDUCTIONS	YOUR REFERENCE
					Perry Plant
10/04/95		95-135715	$100.00	$0.00	R ZUCKER/PERMT RENEW
			100.00	$0.00	$100.00

CHECK ID 0951006000218

C636490

JP-428(NS) REV 6-92

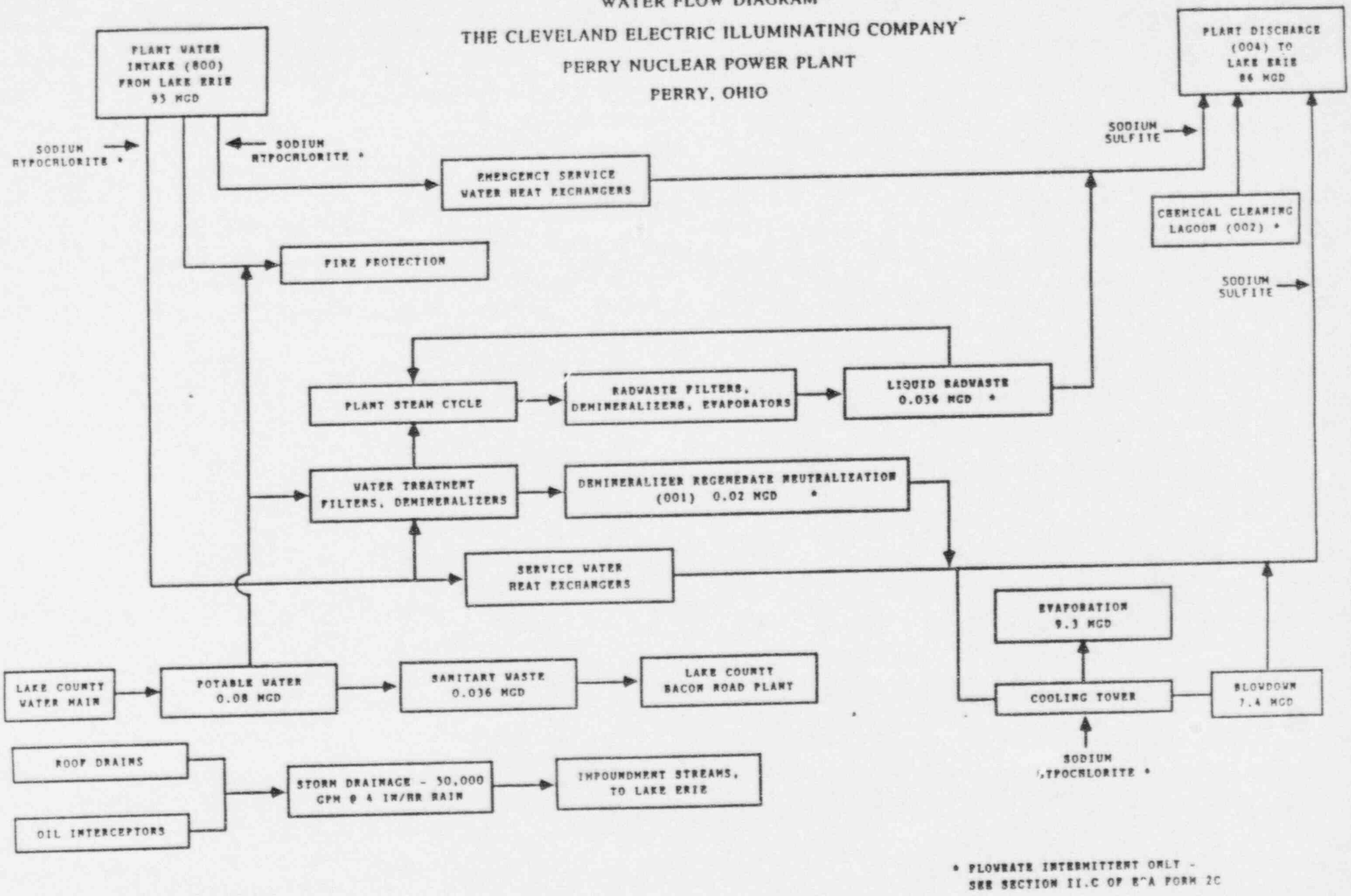
EPA I.D. Number OHOOO3461

WATER FLOW DIAGRAM

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

PERRY NUCLEAR POWER PLANT

PERRY, OHIO



* FLOWRATE INTERMITTENT ONLY - SEE SECTION II.C OF EPA FORM 2C

NPDES Permit No: 3IB00016

Electro-Analytical Laboratories

7118 Industrial Park Blvd.
Mentor, OH 44060
Attn: Client Services Department
Phone: (216) 951-3514 [FAX 951-3774]

Perry Nuclear Power Plant
10 Center Rd. E. 240
Perry, Ohio 44081

Attn: Donna G. Tizzano

Order #: 95-09-435
Date: 10/03/95 10:14
Work ID: NPDES Permit Renewal
Date Received: 09/27/95
Date Completed: 10/02/95

SAMPLE IDENTIFICATION

Sample Number	Sample Description
01	Plant Outfall
02	Service Water
03	Basin "A"

All samples were analyzed as received. Samples are retained for 30 days prior to disposal or return. Reproduction of this report is prohibited except in its entirety. Contact Client Services with questions regarding this report.

Certified By
Electro-Analytical Laboratories
Tony Solitro, Lab Manager

Electro-Analytical Laboratories

Work Id: NPDES Permit Renewal

REGULAR TEST RESULTS BY TEST

Ammonia;Nitrogen:EPA 350.2 **Minimum:** 0.20 **Maximum:**
Method: DIST_TITRIM

Sample	Sample Description	Result	Units	Extracted	Analyzed	By
01D	Plant Outfall	0.90	mg/liter as 'N		09/27/95	KAM
02D	Service Water	0.34	mg/liter as 'N	09/28/95	09/28/95	CO
03D	Basin "A"	2.4	mg/liter as 'N		09/27/95	KAM

Biochm O2 Demand-EPA 405.1 **Minimum:** 3.0 **Maximum:**
Method: 5DAY_20_DEGC

Sample	Sample Description	Result	Units	Extracted	Analyzed	By
01A	Plant Outfall	<3.0	mg/liter	09/27/95	10/02/95	CO
02A	Service Water	<3.0	mg/liter	09/27/95	10/02/95	CO
03A	Basin "A"	<3.0	mg/liter	09/27/95	10/02/95	CO

Chem Oxy. Demand:EPA 410.4 **Minimum:** 20 **Maximum:**
Method: Colorimetric

Sample	Sample Description	Result	Units	Extracted	Analyzed	By
01B	Plant Outfall	<20	mg/liter		09/27/95	KAM
02B	Service Water	<20	mg/liter		09/27/95	KAM
03B	Basin "A"	35	mg/liter		09/27/95	KAM

Non-Filt.Res(TSS):EPA160.2 **Minimum:** 1.0 **Maximum:**
Method: GRAV_DRYING

Sample	Sample Description	Result	Units	Extracted	Analyzed	By
01C	Plant Outfall	2.5	mg/liter	09/28/95	09/29/95	CO
02C	Service Water	1.6	mg/liter	09/28/95	09/29/95	CO
03C	Basin "A"	16	mg/liter	09/28/95	09/29/95	CO

Quanterra
Environmental
Services

Quanterra Incorporated
4101 Shuffel Drive, NW
North Canton, Ohio 44720

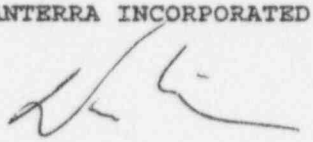
216 497-9396 Telephone
216 497-0772 Fax

ANALYTICAL REPORT

Donna Tizzano

ILLUMINATING COMPANY

QUANTERRA INCORPORATED



Duane Nielsen
Project Manager

August 21, 1995

SAMPLE SUMMARY

Quanterra Environmental Services

The analytical results of the samples listed below are presented on the following pages.

WO #	LABORATORY ID	SAMPLE IDENTIFICATION	DATE/TIME SAMPLED
C0E22	A5G270132-001	OUTFALL	7/27/95
C0E24	A5G270132-002	SW FOREBAY	7/27/95
C0E25	A5G270132-003	NEUTRALIZATION BASIN	7/27/95

Quanterra Environmental Services

ILLUMINATING COMPANY

OUTFALL

WO #: C0E2210R
LAB #: A5G270132-001
MATRIX: WATER
DILUTION FACTOR: 1.00

DATE SAMPLED: 7/27/95
TIME SAMPLED:
DATE RECEIVED: 7/27/95

GC/MS Volatiles

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Acrolein	ND	100	CFR136A 624	08/08/95	5222044
Acrylonitrile	ND	100	CFR136A 624	08/08/95	5222044
Benzene	ND	5.0	CFR136A 624	08/08/95	5222044
Bromoform	ND	5.0	CFR136A 624	08/08/95	5222044
Bromomethane	ND	10	CFR136A 624	08/08/95	5222044
Carbon tetrachloride	ND	5.0	CFR136A 624	08/08/95	5222044
Chlorobenzene	ND	5.0	CFR136A 624	08/08/95	5222044
Chlorodibromomethane	ND	5.0	CFR136A 624	08/08/95	5222044
Chloroethane	ND	10	CFR136A 624	08/08/95	5222044
Chloroform	**4.3 J**	**5.0**	**CFR136A 624**	**08/08/95**	**5222044**
Chloromethane	ND	10	CFR136A 624	08/08/95	5222044
Dichlorobromomethane	**2.1 J**	**5.0**	**CFR136A 624**	**08/08/95**	**5222044**
1,1-Dichloroethane	ND	5.0	CFR136A 624	08/08/95	5222044
1,2-Dichloroethane	ND	5.0	CFR136A 624	08/08/95	5222044
1,1-Dichloroethene	ND	5.0	CFR136A 624	08/08/95	5222044
1,2-Dichloroethene (total)	ND	5.0	CFR136A 624	08/08/95	5222044
1,2-Dichloropropane	ND	5.0	CFR136A 624	08/08/95	5222044
cis-1,3-Dichloropropene	ND	5.0	CFR136A 624	08/08/95	5222044
trans-1,3-Dichloropropene	ND	5.0	CFR136A 624	08/08/95	5222044
Ethylbenzene	ND	5.0	CFR136A 624	08/08/95	5222044
Methylene chloride	ND	10	CFR136A 624	08/08/95	5222044
1,1,2,2-Tetrachloroethane	ND	5.0	CFR136A 624	08/08/95	5222044
Tetrachloroethene	ND	5.0	CFR136A 624	08/08/95	5222044

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
1,2-Dichloroethane-d4	106	(76 - 114)
Toluene-d8	98	(88 - 110)
Bromofluorobenzene	98	(86 - 115)

NOTE: AS RECEIVED
ND NOT DETECTED AT THE STATED REPORTING LIMIT
J ESTIMATED VALUE. (DETECTED), BUT BELOW QUANTITATION LIMIT.

Quanterra
Environmental Services

ILLUMINATING COMPANY

OUTFALL

WO #: C0E2210R
LAB #: A5G270132-001
MATRIX: WATER
DILUTION FACTOR: 1.00

DATE SAMPLED: 7/27/95
TIME SAMPLED:
DATE RECEIVED: 7/27/95

GC/MS Volatiles

2 OF 2

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Toluene	ND	5.0	CFR136A 624	08/08/95	5222044
1,1,1-Trichloroethane	ND	5.0	CFR136A 624	08/08/95	5222044
1,1,2-Trichloroethane	ND	5.0	CFR136A 624	08/08/95	5222044
Trichloroethene	ND	5.0	CFR136A 624	08/08/95	5222044
Vinyl chloride	ND	10	CFR136A 624	08/08/95	5222044

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
1,2-Dichloroethane-d4	106	(76 - 114)
Toluene-d8	98	(88 - 110)
Bromofluorobenzene	98	(86 - 115)

NOTE: AS RECEIVED
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

ILLUMINATING COMPANY

OUTFALL

WO #: C0E2210T
LAB #: A5G270132-001
MATRIX: WATER
DILUTION FACTOR: 1.00

DATE SAMPLED: 7/27/95
DATE RECEIVED: 7/27/95

GC/MS Semi-Volatiles

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Acenaphthene	ND	10	CFR136A 625	07/28-08/03/95	520905
Acenaphthylene	ND	10	CFR136A 625	07/28-08/03/95	520905
Anthracene	ND	10	CFR136A 625	07/28-08/03/95	520905
Benzidine	ND	100	CFR136A 625	07/28-08/03/95	520905
Benzo(a)anthracene	ND	10	CFR136A 625	07/28-08/03/95	520905
Benzo(a)pyrene	ND	10	CFR136A 625	07/28-08/03/95	520905
Benzo(b)fluoranthene	ND	10	CFR136A 625	07/28-08/03/95	520905
Benzo(ghi)perylene	ND	10	CFR136A 625	07/28-08/03/95	520905
Benzo(k)fluoranthene	ND	10	CFR136A 625	07/28-08/03/95	520905
4-Bromophenyl phenyl ether	ND	10	CFR136A 625	07/28-08/03/95	520905
Butyl benzyl phthalate	ND	10	CFR136A 625	07/28-08/03/95	520905
bis(2-Chloroethoxy)methane	ND	10	CFR136A 625	07/28-08/03/95	520905
bis(2-Chloroethyl) ether	ND	10	CFR136A 625	07/28-08/03/95	520905
bis(2-Chloroisopropyl) ether	ND	10	CFR136A 625	07/28-08/03/95	520905
p-Chloro-m-cresol	ND	10	CFR136A 625	07/28-08/03/95	520905
2-Chloronaphthalene	ND	10	CFR136A 625	07/28-08/03/95	520905
2-Chlorophenol	ND	10	CFR136A 625	07/28-08/03/95	520905
4-Chlorophenyl phenyl ether	ND	10	CFR136A 625	07/28-08/03/95	520905
Chrysene	ND	10	CFR136A 625	07/28-08/03/95	520905
Dibenz(a,h)anthracene	ND	10	CFR136A 625	07/28-08/03/95	520905
Di-n-butyl phthalate	ND	10	CFR136A 625	07/28-08/03/95	520905
1,2-Dichlorobenzene	ND	10	CFR136A 625	07/28-08/03/95	520905
1,3-Dichlorobenzene	ND	10	CFR136A 625	07/28-08/03/95	520905

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
2-Fluorophenol	62	(17 - 106)
Phenol-d5	61	(15 - 126)
2,4,6-Tribromophenol	58	(13 - 145)
Nitrobenzene-d5	69	(36 - 148)
2-Fluorobiphenyl	65	(38 - 106)
Terphenyl-d14	47	(10 - 169)

NOTE:
AS RECEIVED
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

ILLUMINATING COMPANY

OUTFALL

WO #: C0E2210T
LAB #: A5G270132-001
MATRIX: WATER
DILUTION FACTOR: 1.00

DATE SAMPLED: 7/27/95
DATE RECEIVED: 7/27/95

GC/MS Semi-Volatiles

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
1,4-Dichlorobenzene	ND	10	CFR136A 625	07/28-08/03/95	5209051
3,3'-Dichlorobenzidine	ND	10	CFR136A 625	07/28-08/03/95	5209051
2,4-Dichlorophenol	ND	10	CFR136A 625	07/28-08/03/95	5209051
Diethyl phthalate	ND	10	CFR136A 625	07/28-08/03/95	5209051
2,4-Dimethylphenol	ND	10	CFR136A 625	07/28-08/03/95	5209051
Dimethyl phthalate	ND	10	CFR136A 625	07/28-08/03/95	5209051
4,6-Dinitro-o-cresol	ND	50	CFR136A 625	07/28-08/03/95	5209051
2,4-Dinitrophenol	ND	50	CFR136A 625	07/28-08/03/95	5209051
2,4-Dinitrotoluene	ND	10	CFR136A 625	07/28-08/03/95	5209051
2,6-Dinitrotoluene	ND	10	CFR136A 625	07/28-08/03/95	5209051
Di-n-octyl phthalate	ND	10	CFR136A 625	07/28-08/03/95	5209051
1,2-Diphenylhydrazine	ND	10	CFR136A 625	07/28-08/03/95	5209051
bis(2-Ethylhexyl) phthalate	ND	10	CFR136A 625	07/28-08/03/95	5209051
Fluoranthene	ND	10	CFR136A 625	07/28-08/03/95	5209051
Fluorene	ND	10	CFR136A 625	07/28-08/03/95	5209051
Hexachlorobenzene	ND	10	CFR136A 625	07/28-08/03/95	5209051
Hexachlorobutadiene	ND	10	CFR136A 625	07/28-08/03/95	5209051
Hexachlorocyclopentadiene	ND	10	CFR136A 625	07/28-08/03/95	5209051
Hexachloroethane	ND	10	CFR136A 625	07/28-08/03/95	5209051
Indeno(1,2,3-cd)pyrene	ND	10	CFR136A 625	07/28-08/03/95	5209051
Isophorone	ND	10	CFR136A 625	07/28-08/03/95	5209051
Naphthalene	ND	10	CFR136A 625	07/28-08/03/95	5209051
Nitrobenzene	ND	10	CFR136A 625	07/28-08/03/95	5209051

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
2-Fluorophenol	62	(17 - 106)
Phenol-d5	61	(15 - 126)
2,4,6-Tribromophenol	58	(13 - 145)
Nitrobenzene-d5	69	(36 - 148)
2-Fluorobiphenyl	65	(38 - 106)
Terphenyl-d14	47	(10 - 169)

NOTE:
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ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

ILLUMINATING COMPANY

OUTFALL

WO #: C0E2210T
LAB #: A5G270132-001
MATRIX: WATER
DILUTION FACTOR: 1.00

DATE SAMPLED: 7/27/95
DATE RECEIVED: 7/27/95

GC/MS Semi-Volatiles

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
2-Nitrophenol	ND	10	CFR136A 625	07/28-08/03/95	5209051
4-Nitrophenol	ND	50	CFR136A 625	07/28-08/03/95	5209051
N-Nitrosodimethylamine	ND	10	CFR136A 625	07/28-08/03/95	5209051
N-Nitrosodiphenylamine	ND	10	CFR136A 625	07/28-08/03/95	5209051
N-Nitrosodi-n-propylamine	ND	10	CFR136A 625	07/28-08/03/95	5209051
Pentachlorophenol	ND	50	CFR136A 625	07/28-08/03/95	5209051
Phenanthrene	ND	10	CFR136A 625	07/28-08/03/95	5209051
Phenol	ND	10	CFR136A 625	07/28-08/03/95	5209051
Pyrene	ND	10	CFR136A 625	07/28-08/03/95	5209051
1,2,4-Trichlorobenzene	ND	10	CFR136A 625	07/28-08/03/95	5209051
2,4,6-Trichlorophenol	ND	10	CFR136A 625	07/28-08/03/95	5209051

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
2-Fluorophenol	62	(17 - 106)
Phenol-d5	61	(15 - 126)
2,4,6-Tribromophenol	58	(13 - 145)
Nitrobenzene-d5	69	(36 - 148)
2-Fluorobiphenyl	65	(38 - 106)
Terphenyl-d14	47	(10 - 169)

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Quanterra
Environmental Services

ILLUMINATING COMPANY

OUTFALL

WO #: C0E22
LAB #: A5G270132-001
MATRIX: WATER

DATE SAMPLED: 7/27/95
DATE RECEIVED: 7/27/95

REQUESTED METALS

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Aluminum	ND	0.20	mg/L	MCAWW 200.7	8/02- 8/03/95	5214008
Barium	ND	0.20	mg/L	MCAWW 200.7	8/02- 8/03/95	5214008
Boron	ND	0.20	mg/L	MCAWW 200.7	8/02- 8/03/95	5214008
Cobalt	ND	0.050	mg/L	MCAWW 200.7	8/02- 8/03/95	5214008
Iron	0.12	0.10	mg/L	MCAWW 200.7	8/02- 8/03/95	5214008
Magnesium	10.9	5.0	mg/L	MCAWW 200.7	8/02- 8/03/95	5214008
Manganese	ND	0.015	mg/L	MCAWW 200.7	8/02- 8/03/95	5214008
Molybdenum	ND	0.10	mg/L	MCAWW 200.7	8/02- 8/03/95	5214008
Tin	ND	1.0	mg/L	MCAWW 200.7	8/02- 8/09/95	5214008
Titanium	ND	0.010	mg/L	MCAWW 200.7	8/02- 8/03/95	5214008

NOTE: AS RECEIVED
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

ILLUMINATING COMPANY

OUTFALL

WO #: C0E22
LAB #: A5G270132-001
MATRIX: WATER

DATE SAMPLED: 7/27/95
DATE RECEIVED: 7/27/95

INORGANIC ANALYTICAL REPORT

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Color (Colorimetric, Platinum-Cobalt)	10	5	C.U.	MCAWW 110.2	7/27/95	5209024
Bromide (Titrimetric)	31	20	mg/L	MCAWW 320.1	8/10/95	5222080
Total residual chlorine (Spectrophotometric, DPD)	ND	0.2	mg/L	MCAWW 330.5	7/27/95	5209023
Fluoride (Colorimetric, Ion Selective Electrode)	0.1	0.1	mg/L	MCAWW 340.2	8/07/95	5219030
Nitrate-Nitrite	0.7	0.1	mg/L	MCAWW 353.2	8/03- 8/04/95	5216012
Total phosphorus (Colorimetric)	1.8	0.1	mg/L	MCAWW 365.2	8/01- 8/02/95	5213094
Sulfide	1.5	0.50	mg/L	MCAWW 376.1	8/02/95	5214107
Sulfite	ND	2	mg/L	MCAWW 377.1	7/27/95	5216038
Surfactants (MBAS)	ND	0.1	mg/L	MCAWW 425.1	7/27/95	5209029
Oil and Grease, Gravimetric	ND	5.0	mg/L	MCAWW 413.1	8/09- 8/10/95	5221047
Coliforms, Fecal	ND	10.0	/100mL	SM18 9222D	7/27- 7/28/95	5209026
Total Organic Nitrogen	2	1	mg/L	MCAWW 351.3/3	8/11/95	5223088
Sulfate	27	5	mg/L	MCAWW 375.4	8/11/95	5223080

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Quanterra Environmental Services

ILLUMINATING COMPANY

SW FOREBAY

WO #: C0E2410R
LAB #: A5G270132-002
MATRIX: WATER
DILUTION FACTOR: 1.00

DATE SAMPLED: 7/27/95
TIME SAMPLED:
DATE RECEIVED: 7/27/95

GC/MS Volatiles

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Acrolein	ND	100	CFR136A 624	08/08/95	5222044
Acrylonitrile	ND	100	CFR136A 624	08/08/95	5222044
Benzene	ND	5.0	CFR136A 624	08/08/95	5222044
Bromoform	ND	5.0	CFR136A 624	08/08/95	5222044
Bromomethane	ND	10	CFR136A 624	08/08/95	5222044
Carbon tetrachloride	ND	5.0	CFR136A 624	08/08/95	5222044
Chlorobenzene	ND	5.0	CFR136A 624	08/08/95	5222044
Chlorodibromomethane	ND	5.0	CFR136A 624	08/08/95	5222044
Chloroethane	ND	10	CFR136A 624	08/08/95	5222044
Chloroform	ND	5.0	CFR136A 624	08/08/95	5222044
Chloromethane	ND	10	CFR136A 624	08/08/95	5222044
Dichlorobromomethane	ND	5.0	CFR136A 624	08/08/95	5222044
1,1-Dichloroethane	ND	5.0	CFR136A 624	08/08/95	5222044
1,2-Dichloroethane	ND	5.0	CFR136A 624	08/08/95	5222044
1,1-Dichloroethene	ND	5.0	CFR136A 624	08/08/95	5222044
1,2-Dichloroethene (total)	ND	5.0	CFR136A 624	08/08/95	5222044
1,2-Dichloropropane	ND	5.0	CFR136A 624	08/08/95	5222044
cis-1,3-Dichloropropene	ND	5.0	CFR136A 624	08/08/95	5222044
trans-1,3-Dichloropropene	ND	5.0	CFR136A 624	08/08/95	5222044
Ethylbenzene	ND	5.0	CFR136A 624	08/08/95	5222044
Methylene chloride	ND	10	CFR136A 624	08/08/95	5222044
1,1,2,2-Tetrachloroethane	ND	5.0	CFR136A 624	08/08/95	5222044
Tetrachloroethene	ND	5.0	CFR136A 624	08/08/95	5222044

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
1,2-Dichloroethane-d4	105	(76 - 114)
Toluene-d8	98	(88 - 110)
Bromofluorobenzene	97	(86 - 115)

NOTE: AS RECEIVED
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Quanterra
Environmental Services

ILLUMINATING COMPANY

SW FOREBAY

WO #: C0E2410R
LAB #: A5G270132-002
MATRIX: WATER
DILUTION FACTOR: 1.00

DATE SAMPLED: 7/27/95
TIME SAMPLED:
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GC/MS Volatiles

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Toluene	ND	5.0	CFR136A 624	08/08/95	5222044
1,1,1-Trichloroethane	ND	5.0	CFR136A 624	08/08/95	5222044
1,1,2-Trichloroethane	ND	5.0	CFR136A 624	08/08/95	5222044
Trichloroethene	ND	5.0	CFR136A 624	08/08/95	5222044
Vinyl chloride	ND	10	CFR136A 624	08/08/95	5222044

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
1,2-Dichloroethane-d4	105	(76 - 114)
Toluene-d8	98	(88 - 110)
Bromofluorobenzene	97	(86 - 115)

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Quanterra
Environmental Services

ILLUMINATING COMPANY

SW FOREBAY

WO #: C0E2410T
LAB #: A5G270132-002
MATRIX: WATER
DILUTION FACTOR: 1.00

DATE SAMPLED: 7/27/95
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GC/MS Semi-Volatiles

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Acenaphthene	ND	10	CFR136A 625	07/28-08/03/95	520905
Acenaphthylene	ND	10	CFR136A 625	07/28-08/03/95	520905
Anthracene	ND	10	CFR136A 625	07/28-08/03/95	520905
Benzidine	ND	100	CFR136A 625	07/28-08/03/95	520905
Benzo(a)anthracene	ND	10	CFR136A 625	07/28-08/03/95	520905
Benzo(a)pyrene	ND	10	CFR136A 625	07/28-08/03/95	520905
Benzo(b)fluoranthene	ND	10	CFR136A 625	07/28-08/03/95	520905
Benzo(ghi)perylene	ND	10	CFR136A 625	07/28-08/03/95	520905
Benzo(k)fluoranthene	ND	10	CFR136A 625	07/28-08/03/95	520905
4-Bromophenyl phenyl ether	ND	10	CFR136A 625	07/28-08/03/95	520905
Butyl benzyl phthalate	ND	10	CFR136A 625	07/28-08/03/95	520905
bis(2-Chloroethoxy)methane	ND	10	CFR136A 625	07/28-08/03/95	520905
bis(2-Chloroethyl) ether	ND	10	CFR136A 625	07/28-08/03/95	520905
bis(2-Chloroisopropyl) ether	ND	10	CFR136A 625	07/28-08/03/95	520905
p-Chloro-m-cresol	ND	10	CFR136A 625	07/28-08/03/95	520905
2-Chloronaphthalene	ND	10	CFR136A 625	07/28-08/03/95	520905
2-Chlorophenol	ND	10	CFR136A 625	07/28-08/03/95	520905
4-Chlorophenyl phenyl ether	ND	10	CFR136A 625	07/28-08/03/95	520905
Chrysene	ND	10	CFR136A 625	07/28-08/03/95	520905
Dibenz(a,h)anthracene	ND	10	CFR136A 625	07/28-08/03/95	520905
Di-n-butyl phthalate	ND	10	CFR136A 625	07/28-08/03/95	520905
1,2-Dichlorobenzene	ND	10	CFR136A 625	07/28-08/03/95	520905
1,3-Dichlorobenzene	ND	10	CFR136A 625	07/28-08/03/95	520905

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
2-Fluorophenol	54	(17 - 106)
Phenol-d5	58	(15 - 126)
2,4,6-Tribromophenol	58	(13 - 145)
Nitrobenzene-d5	68	(36 - 148)
2-Fluorobiphenyl	61	(38 - 106)
Terphenyl-d14	36	(10 - 169)

NOTE:
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Quanterra
Environmental Services

ILLUMINATING COMPANY

SW FOREBAY

WO #: C0E2410T
LAB #: A5G270132-002
MATRIX: WATER
DILUTION FACTOR: 1.00

DATE SAMPLED: 7/27/95
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GC/MS Semi-Volatiles

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
1,4-Dichlorobenzene	ND	10	CFR136A 625	07/28-08/03/95	520905
3,3'-Dichlorobenzidine	ND	10	CFR136A 625	07/28-08/03/95	520905
2,4-Dichlorophenol	ND	10	CFR136A 625	07/28-08/03/95	520905
Diethyl phthalate	ND	10	CFR136A 625	07/28-08/03/95	520905
2,4-Dimethylphenol	ND	10	CFR136A 625	07/28-08/03/95	520905
Dimethyl phthalate	ND	10	CFR136A 625	07/28-08/03/95	520905
4,6-Dinitro-o-cresol	ND	50	CFR136A 625	07/28-08/03/95	520905
2,4-Dinitrophenol	ND	50	CFR136A 625	07/28-08/03/95	520905
2,4-Dinitrotoluene	ND	10	CFR136A 625	07/28-08/03/95	520905
2,6-Dinitrotoluene	ND	10	CFR136A 625	07/28-08/03/95	520905
Di-n-octyl phthalate	ND	10	CFR136A 625	07/28-08/03/95	520905
1,2-Diphenylhydrazine	ND	10	CFR136A 625	07/28-08/03/95	520905
bis(2-Ethylhexyl) phthalate	ND	10	CFR136A 625	07/28-08/03/95	520905
Fluoranthene	ND	10	CFR136A 625	07/28-08/03/95	520905
Fluorene	ND	10	CFR136A 625	07/28-08/03/95	520905
Hexachlorobenzene	ND	10	CFR136A 625	07/28-08/03/95	520905
Hexachlorobutadiene	ND	10	CFR136A 625	07/28-08/03/95	520905
Hexachlorocyclopentadiene	ND	10	CFR136A 625	07/28-08/03/95	520905
Hexachloroethane	ND	10	CFR136A 625	07/28-08/03/95	520905
Indeno(1,2,3-cd)pyrene	ND	10	CFR136A 625	07/28-08/03/95	520905
Isophorone	ND	10	CFR136A 625	07/28-08/03/95	520905
Naphthalene	ND	10	CFR136A 625	07/28-08/03/95	520905
Nitrobenzene	ND	10	CFR136A 625	07/28-08/03/95	520905

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
2-Fluorophenol	54	(17 - 106)
Phenol-d5	58	(15 - 126)
2,4,6-Tribromophenol	58	(13 - 145)
Nitrobenzene-d5	68	(36 - 148)
2-Fluorobiphenyl	61	(38 - 106)
Terphenyl-d14	36	(10 - 169)

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Quanterra
Environmental Services

ILLUMINATING COMPANY

SW FOREBAY

WO #: C0E2410T
LAB #: A5G270132-002
MATRIX: WATER
DILUTION FACTOR: 1.00

DATE SAMPLED: 7/27/95
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GC/MS Semi-Volatiles

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
2-Nitrophenol	ND	10	CFR136A 625	07/28-08/03/95	520905
4-Nitrophenol	ND	50	CFR136A 625	07/28-08/03/95	520905
N-Nitrosodimethylamine	ND	10	CFR136A 625	07/28-08/03/95	520905
N-Nitrosodiphenylamine	ND	10	CFR136A 625	07/28-08/03/95	520905
N-Nitrosodi-n-propylamine	ND	10	CFR136A 625	07/28-08/03/95	520905
Pentachlorophenol	ND	50	CFR136A 625	07/28-08/03/95	520905
Phenanthrene	ND	10	CFR136A 625	07/28-08/03/95	520905
Phenol	ND	10	CFR136A 625	07/28-08/03/95	520905
Pyrene	ND	10	CFR136A 625	07/28-08/03/95	520905
1,2,4-Trichlorobenzene	ND	10	CFR136A 625	07/28-08/03/95	520905
2,4,6-Trichlorophenol	ND	10	CFR136A 625	07/28-08/03/95	520905

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
2-Fluorophenol	54	(17 - 106)
Phenol-d5	58	(15 - 126)
2,4,6-Tribromophenol	58	(13 - 145)
Nitrobenzene-d5	68	(36 - 148)
2-Fluorobiphenyl	61	(38 - 106)
Terphenyl-d14	36	(10 - 169)

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Quanterra
Environmental Services

ILLUMINATING COMPANY

SW FOREBAY

WO #: C0E24
LAB #: A5G270132-002
MATRIX: WATER

DATE SAMPLED: 7/27/95
DATE RECEIVED: 7/27/95

REQUESTED METALS

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Aluminum	ND	0.20	mg/L	MCAWW 200.7	8/02- 8/03/95	5214008
Barium	ND	0.20	mg/L	MCAWW 200.7	8/02- 8/03/95	5214008
Boron	ND	0.20	mg/L	MCAWW 200.7	8/02- 8/03/95	5214008
Cobalt	ND	0.050	mg/L	MCAWW 200.7	8/02- 8/03/95	5214008
Iron	0.22	0.10	mg/L	MCAWW 200.7	8/02- 8/03/95	5214008
Magnesium	7.9	5.0	mg/L	MCAWW 200.7	8/02- 8/03/95	5214008
Manganese	ND	0.015	mg/L	MCAWW 200.7	8/02- 8/03/95	5214008
Molybdenum	ND	0.10	mg/L	MCAWW 200.7	8/02- 8/03/95	5214008
Tin	ND	1.0	mg/L	MCAWW 200.7	8/02- 8/09/95	5214008
Titanium	ND	0.010	mg/L	MCAWW 200.7	8/02- 8/03/95	5214008

NOTE: AS RECEIVED
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

ILLUMINATING COMPANY

SW FOREBAY

WO #: C0E24
LAB #: A5G270132-002
MATRIX: WATER

DATE SAMPLED: 7/27/95
DATE RECEIVED: 7/27/95

INORGANIC ANALYTICAL REPORT

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Color (Colorimetric, Platinum-Cobalt)	10	5	C.U.	MCAWW 110.2	7/27/95	5209024
Bromide (Titrimetric)	40	20	mg/L	MCAWW 320.1	8/10/95	5222080
Total residual chlorine (Spectrophotometric, DPD)	ND	0.2	mg/L	MCAWW 330.5	7/27/95	5209023
Fluoride (Colorimetric, Ion Selective Electrode)	0.1	0.1	mg/L	MCAWW 340.2	8/07/95	5219030
Nitrate-Nitrite	0.5	0.1	mg/L	MCAWW 353.2	8/03- 8/04/95	5216012
Total phosphorus (Colorimetric)	0.4	0.1	mg/L	MCAWW 365.2	8/01- 8/02/95	5213094
Sulfide	ND	0.50	mg/L	MCAWW 376.1	8/02/95	5214107
Sulfite	ND	2	mg/L	MCAWW 377.1	7/27/95	5216038
Surfactants (MBAS)	ND	0.1	mg/L	MCAWW 425.1	7/27/95	5209029
Oil and Grease, Gravimetric	ND	5.0	mg/L	MCAWW 413.1	8/09- 8/10/95	5221047
Coliforms, Fecal	ND	10.0	/100mL	SM18 9222D	7/27- 7/28/95	5209026
Total Organic Nitrogen	ND	1	mg/L	MCAWW 351.3/3	8/11/95	5223088
Sulfate	18	5	mg/L	MCAWW 375.4	8/11/95	5223080

NOTE: AS RECEIVED
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra Environmental Services

ILLUMINATING COMPANY

NEUTRALIZATION BASIN

WO #: C0E2510R
LAB #: A5G270132-003
MATRIX: WATER
DILUTION FACTOR: 1.00

DATE SAMPLED: 7/27/95
TIME SAMPLED:
DATE RECEIVED: 7/27/95

GC/MS Volatiles

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Acrolein	ND	100	CFR136A 624	08/08/95	5222044
Acrylonitrile	ND	100	CFR136A 624	08/08/95	5222044
Benzene	ND	5.0	CFR136A 624	08/08/95	5222044
Bromoform	ND	5.0	CFR136A 624	08/08/95	5222044
Bromomethane	ND	10	CFR136A 624	08/08/95	5222044
Carbon tetrachloride	ND	5.0	CFR136A 624	08/08/95	5222044
Chlorobenzene	ND	5.0	CFR136A 624	08/08/95	5222044
Chlorodibromomethane	ND	5.0	CFR136A 624	08/08/95	5222044
Chloroethane	ND	10	CFR136A 624	08/08/95	5222044
Chloroform	ND	5.0	CFR136A 624	08/08/95	5222044
Chloromethane	ND	10	CFR136A 624	08/08/95	5222044
Dichlorobromomethane	ND	5.0	CFR136A 624	08/08/95	5222044
1,1-Dichloroethane	ND	5.0	CFR136A 624	08/08/95	5222044
1,2-Dichloroethane	ND	5.0	CFR136A 624	08/08/95	5222044
1,1-Dichloroethene	ND	5.0	CFR136A 624	08/08/95	5222044
1,2-Dichloroethene (total)	ND	5.0	CFR136A 624	08/08/95	5222044
1,2-Dichloropropane	ND	5.0	CFR136A 624	08/08/95	5222044
cis-1,3-Dichloropropene	ND	5.0	CFR136A 624	08/08/95	5222044
trans-1,3-Dichloropropene	ND	5.0	CFR136A 624	08/08/95	5222044
Ethylbenzene	ND	5.0	CFR136A 624	08/08/95	5222044
Methylene chloride	ND	10	CFR136A 624	08/08/95	5222044
1,1,2,2-Tetrachloroethane	ND	5.0	CFR136A 624	08/08/95	5222044
Tetrachloroethene	ND	5.0	CFR136A 624	08/08/95	5222044

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
1,2-Dichloroethane-d4	106	(76 - 114)
Toluene-d8	98	(88 - 110)
Bromofluorobenzene	98	(86 - 115)

NOTE: AS RECEIVED
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

ILLUMINATING COMPANY

NEUTRALIZATION BASIN

WO #: C0E2510R
LAB #: A5G270132-003
MATRIX: WATER
DILUTION FACTOR: 1.00

DATE SAMPLED: 7/27/95
TIME SAMPLED:
DATE RECEIVED: 7/27/95

GC/MS Volatiles

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Toluene	ND	5.0	CFR136A 624	08/08/95	5222044
1,1,1-Trichloroethane	ND	5.0	CFR136A 624	08/08/95	5222044
1,1,2-Trichloroethane	ND	5.0	CFR136A 624	08/08/95	5222044
Trichloroethene	ND	5.0	CFR136A 624	08/08/95	5222044
Vinyl chloride	ND	10	CFR136A 624	08/08/95	5222044

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
1,2-Dichloroethane-d4	106	(76 - 114)
Toluene-d8	98	(88 - 110)
Bromofluorobenzene	98	(86 - 115)

NOTE: AS RECEIVED
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

ILLUMINATING COMPANY

NEUTRALIZATION BASIN

WO #: C0E2510T
LAB #: A5G270132-003
MATRIX: WATER
DILUTION FACTOR: 1.00

DATE SAMPLED: 7/27/95
DATE RECEIVED: 7/27/95

GC/MS Semi-Volatiles

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Acenaphthene	ND	10	CFR136A 625	07/28-08/03/95	520905
Acenaphthylene	ND	10	CFR136A 625	07/28-08/03/95	520905
Anthracene	ND	10	CFR136A 625	07/28-08/03/95	520905
Benzidine	ND	100	CFR136A 625	07/28-08/03/95	520905
Benzo(a)anthracene	ND	10	CFR136A 625	07/28-08/03/95	520905
Benzo(a)pyrene	ND	10	CFR136A 625	07/28-08/03/95	520905
Benzo(b)fluoranthene	ND	10	CFR136A 625	07/28-08/03/95	520905
Benzo(ghi)perylene	ND	10	CFR136A 625	07/28-08/03/95	520905
Benzo(k)fluoranthene	ND	10	CFR136A 625	07/28-08/03/95	520905
4-Bromophenyl phenyl ether	ND	10	CFR136A 625	07/28-08/03/95	520905
Butyl benzyl phthalate	ND	10	CFR136A 625	07/28-08/03/95	520905
bis(2-Chloroethoxy)methane	ND	10	CFR136A 625	07/28-08/03/95	520905
bis(2-Chloroethyl) ether	ND	10	CFR136A 625	07/28-08/03/95	520905
bis(2-Chloroisopropyl) ether	ND	10	CFR136A 625	07/28-08/03/95	520905
p-Chloro-m-cresol	ND	10	CFR136A 625	07/28-08/03/95	520905
2-Chloronaphthalene	ND	10	CFR136A 625	07/28-08/03/95	520905
2-Chlorophenol	ND	10	CFR136A 625	07/28-08/03/95	520905
4-Chlorophenyl phenyl ether	ND	10	CFR136A 625	07/28-08/03/95	520905
Chrysene	ND	10	CFR136A 625	07/28-08/03/95	520905
Dibenz(a,h)anthracene	ND	10	CFR136A 625	07/28-08/03/95	520905
Di-n-butyl phthalate	ND	10	CFR136A 625	07/28-08/03/95	520905
1,2-Dichlorobenzene	ND	10	CFR136A 625	07/28-08/03/95	520905
1,3-Dichlorobenzene	ND	10	CFR136A 625	07/28-08/03/95	520905

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
2-Fluorophenol	58	(17 - 106)
Phenol-d5	62	(15 - 126)
2,4,6-Tribromophenol	79	(13 - 145)
Nitrobenzene-d5	70	(36 - 148)
2-Fluorobiphenyl	71	(38 - 106)
Terphenyl-d14	103	(10 - 169)

NOTE:
AS RECEIVED
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

ILLUMINATING COMPANY

NEUTRALIZATION BASIN

WO #: C0E2510T
LAB #: A5G270132-003
MATRIX: WATER
DILUTION FACTOR: 1.00

DATE SAMPLED: 7/27/95
DATE RECEIVED: 7/27/95

GC/MS Semi-Volatiles

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
1,4-Dichlorobenzene	ND	10	CFR136A 625	07/28-08/03/95	520905
3,3'-Dichlorobenzidine	ND	10	CFR136A 625	07/28-08/03/95	520905
2,4-Dichlorophenol	ND	10	CFR136A 625	07/28-08/03/95	520905
Diethyl phthalate	ND	10	CFR136A 625	07/28-08/03/95	520905
2,4-Dimethylphenol	ND	10	CFR136A 625	07/28-08/03/95	520905
Dimethyl phthalate	ND	10	CFR136A 625	07/28-08/03/95	520905
4,6-Dinitro-o-cresol	ND	50	CFR136A 625	07/28-08/03/95	520905
2,4-Dinitrophenol	ND	50	CFR136A 625	07/28-08/03/95	520905
2,4-Dinitrotoluene	ND	10	CFR136A 625	07/28-08/03/95	520905
2,6-Dinitrotoluene	ND	10	CFR136A 625	07/28-08/03/95	520905
Di-n-octyl phthalate	ND	10	CFR136A 625	07/28-08/03/95	520905
1,2-Diphenylhydrazine	ND	10	CFR136A 625	07/28-08/03/95	520905
bis(2-Ethylhexyl) phthalate	**25**	**10**	**CFR136A 625**	**07/28-08/03/95**	**520905**
Fluoranthene	ND	10	CFR136A 625	07/28-08/03/95	520905
Fluorene	ND	10	CFR136A 625	07/28-08/03/95	520905
Hexachlorobenzene	ND	10	CFR136A 625	07/28-08/03/95	520905
Hexachlorobutadiene	ND	10	CFR136A 625	07/28-08/03/95	520905
Hexachlorocyclopentadiene	ND	10	CFR136A 625	07/28-08/03/95	520905
Hexachloroethane	ND	10	CFR136A 625	07/28-08/03/95	520905
Indeno(1,2,3-cd)pyrene	ND	10	CFR136A 625	07/28-08/03/95	520905
Isophorone	ND	10	CFR136A 625	07/28-08/03/95	520905
Naphthalene	ND	10	CFR136A 625	07/28-08/03/95	520905
Nitrobenzene	ND	10	CFR136A 625	07/28-08/03/95	520905

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
2-Fluorophenol	58	(17 - 106)
Phenol-d5	62	(15 - 126)
2,4,6-Tribromophenol	79	(13 - 145)
Nitrobenzene-d5	70	(36 - 148)
2-Fluorobiphenyl	71	(38 - 106)
Terphenyl-d14	103	(10 - 169)

NOTE:
AS RECEIVED
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

ILLUMINATING COMPANY

NEUTRALIZATION BASIN

WO #: C0E2510T
LAB #: A5G270132-003
MATRIX: WATER
DILUTION FACTOR: 1.00

DATE SAMPLED: 7/27/95
DATE RECEIVED: 7/27/95

GC/MS Semi-Volatiles

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
2-Nitrophenol	ND	10	CFR136A 625	07/28-08/03/95	5209051
4-Nitrophenol	ND	50	CFR136A 625	07/28-08/03/95	5209051
N-Nitrosodimethylamine	ND	10	CFR136A 625	07/28-08/03/95	5209051
N-Nitrosodiphenylamine	ND	10	CFR136A 625	07/28-08/03/95	5209051
N-Nitrosodi-n-propylamine	ND	10	CFR136A 625	07/28-08/03/95	5209051
Pentachlorophenol	ND	50	CFR136A 625	07/28-08/03/95	5209051
Phenanthrene	ND	10	CFR136A 625	07/28-08/03/95	5209051
Phenol	ND	10	CFR136A 625	07/28-08/03/95	5209051
Pyrene	ND	10	CFR136A 625	07/28-08/03/95	5209051
1,2,4-Trichlorobenzene	ND	10	CFR136A 625	07/28-08/03/95	5209051
2,4,6-Trichlorophenol	ND	10	CFR136A 625	07/28-08/03/95	5209051

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
2-Fluorophenol	58	(17 - 106)
Phenol-d5	62	(15 - 126)
2,4,6-Tribromophenol	79	(13 - 145)
Nitrobenzene-d5	70	(36 - 148)
2-Fluorobiphenyl	71	(38 - 106)
Terphenyl-d14	103	(10 - 169)

NOTE:
AS RECEIVED
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

ILLUMINATING COMPANY

NEUTRALIZATION BASIN

WO #: C0E25
LAB #: A5G270132-003
MATRIX: WATER

DATE SAMPLED: 7/27/95
DATE RECEIVED: 7/27/95

- REQUESTED METALS -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Aluminum	0.59	0.20	mg/L	MCAWW 200.7	8/02- 8/03/95	521400E
Barium	ND	0.20	mg/L	MCAWW 200.7	8/02- 8/03/95	521400E
Boron	ND	0.20	mg/L	MCAWW 200.7	8/02- 8/03/95	521400E
Cobalt	ND	0.050	mg/L	MCAWW 200.7	8/02- 8/03/95	521400E
Iron	10.1	0.10	mg/L	MCAWW 200.7	8/02- 8/03/95	521400E
Magnesium	51.4	5.0	mg/L	MCAWW 200.7	8/02- 8/03/95	521400E
Manganese	0.038	0.015	mg/L	MCAWW 200.7	8/02- 8/03/95	521400E
Molybdenum	ND	0.10	mg/L	MCAWW 200.7	8/02- 8/03/95	521400E
Tin	ND	1.0	mg/L	MCAWW 200.7	8/02- 8/09/95	521400E
Titanium	0.021	0.010	mg/L	MCAWW 200.7	8/02- 8/03/95	521400E

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Quanterra
Environmental Services

ILLUMINATING COMPANY

NEUTRALIZATION BASIN

WO #: C0E25
LAB #: A5G270132-003
MATRIX: WATER

DATE SAMPLED: 7/27/95
DATE RECEIVED: 7/27/95

INORGANIC ANALYTICAL REPORT

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Color (Colorimetric, Platinum-Cobalt)	300	25	C.U.	MCAWW 110.2	7/27/95	5209024
Bromide (Titrimetric)	40	20	mg/L	MCAWW 320.1	8/10/95	522208(
Total residual chlorine (Spectrophotometric, DPD)	ND	0.2	mg/L	MCAWW 330.5	7/27/95	520902:
Fluoride (Colorimetric, Ion Selective Electrode)	0.6	0.1	mg/L	MCAWW 340.2	8/07/95	521903(
Nitrate-Nitrite	3.7	0.2	mg/L	MCAWW 353.2	8/11/95	522307!
Total phosphorus (Colorimetric)	ND	0.1	mg/L	MCAWW 365.2	8/01- 8/02/95	521309-
Sulfide	1.5	0.50	mg/L	MCAWW 376.1	8/02/95	521410'
Sulfite	ND	2	mg/L	MCAWW 377.1	7/27/95	521603
Surfactants (MBAS)	ND	0.1	mg/L	MCAWW 425.1	7/27/95	520902!
Oil and Grease, Gravimetric	ND	5.0	mg/L	MCAWW 413.1	8/09- 8/10/95	522104'
Coliforms, Fecal	ND	10.0	/100mL	SM18 9222D	7/27- 7/28/95	520902
Total Organic Nitrogen	2	1	mg/L	MCAWW 351.3/3	8/11/95	522308
Sulfate	ND	500	mg/L	MCAWW 375.4	8/11/95	522308

NOTE: AS RECEIVED
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental
Services

QUALITY CONTROL SECTION

Quanterra
Environmental Services

QUALITY CONTROL NARRATIVE

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with the exception of those items noted.

The matrix spike and matrix spike duplicates (MS/MSD) contained in this quality control report were generated as part of the laboratory QA/QC program requirements. These requirements include the analysis of a MS/MSD on a one in twenty basis. Therefore, the associated batch number indicated on the MS/MSD reports may not reflect the same batch numbers as those of the samples contained in the analytical report.

Recoveries for Chloroethane and Chloroemethane associated with batch 5215097 and 3,3'-Dichlorobenzidine associated with batch 5109160 exceed quality control acceptance limits in the matrix spike. According to EPA 600 series method requirements, analytical data for these analytes have been verified by the check sample recoveries meeting quality control criteria.

Quanterra
Environmental Services

QUALITY ASSURANCE/QUALITY CONTROL PROGRAM ELEMENTS

Quanterra, Inc. conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data.

Quality control samples provide a mechanism for assessing the overall quality of the analytical process and can be used to indicate the usability of the analytical data. These QC samples include check samples, method blanks, matrix spikes and surrogate spikes.

The CHECK SAMPLE is used to demonstrate that all laboratory analytical processes were functioning properly when the associated sample batch was prepared and analyzed. The check sample is a simulated sample spiked with representative analytes. It is prepared and analyzed with a batch of samples. Spike recovery values from this check sample must meet laboratory established acceptance criteria.

The METHOD BLANK is used to measure the level of background contamination in the laboratory's analytical system. The method blank is carried through the same process as samples, including the preparation, and consists of all the reagents specific to the method.

All analytes of interest in the method blank for organic analyses must be below the method detection limits except for the following common laboratory contaminants.

Volatiles	Semivolatiles
Methylene chloride	Dimethyl phthalate
2-Butanone	Diethyl phthalate
Acetone	Di-n-butyl phthalate
	Butyl benzyl phthalate
	Bis (2-ethylhexyl) phthalate
	Di-n-octyl phthalate

These commonly-detected laboratory contaminants may be present in the method blank at up to five times the method reporting limit.

For metals analyses, if any analyte concentration in the method blank is above the method reporting limit, then the lowest concentration of that analyte in the associated samples must be at least ten times the blank concentration. All samples associated with the blank which are less than ten times the blank concentration are redigested and reanalyzed.

The laboratory performs MATRIX SPIKES (MS) and MATRIX SPIKE DUPLICATES (MSD) to indicate any matrix effects within a given sample. They also allow the laboratory to gather precision and bias data for a specific method and matrix.

Since matrix effects may bias percent recovery, the laboratory performs corrective action if the precision (RPD) criteria of the MS/MSD is not met.

SURROGATE SPIKES are used by the laboratory to indicate method bias introduced by the sample matrix during the preparation and analysis of a specific method. Surrogates are normally organic compounds similar to those being analyzed for the GC or GC/MS. If surrogate recoveries fail to meet laboratory acceptance criteria it does not necessarily indicate poor laboratory control but may in fact be attributed to a sample matrix effect. In the event that surrogates fail criteria, a repreparation and reanalysis is performed to determine the presence of a matrix effect.

The laboratory uses the following surrogate recovery criteria for all organic analyses.

For the GC/MS Base/Neutral fraction the surrogate criteria requires that two of the three surrogates must meet recovery limits. The third surrogate must have a recovery of ten percent or greater.

For the GC/MS Acid fraction the surrogate criteria requires that two of the three surrogates must meet recovery limits. The third surrogate must have a recovery of ten percent or greater.

For GC/ECD Pesticides, the surrogate criteria requires that one of the two surrogates must meet recovery limits.

For Volatiles, PCBs and Herbicides all surrogates utilized must meet surrogate recovery limits.

Quanterra
Environmental Services

CHECK SAMPLE REPORT

QC BATCH: 5222044
LAB #: A5H100000-044 C
DILUTION FACTOR: 1.00

PREPARATION DATE: 8/08/95
DATE ANALYZED: 8/08/95

GC/MS Volatiles

COMPOUND	SPIKE PERCENT RECOVERY	Q/C LIMITS
Benzene	102	(79-125)
Bromodichloromethane	107	(65-144)
Bromoform	100	(46-151)
Bromomethane	113	(47-160)
Carbon tetrachloride	113	(63-141)
Chlorobenzene	100	(81-121)
Chloroethane	106	(38-170)
2-Chloroethyl vinyl ether	108	(27-166)
Chloroform	106	(70-141)
Chloromethane	104	(36-158)
Dibromochloromethane	105	(58-140)
1,2-Dichlorobenzene	107	(18-190)
1,3-Dichlorobenzene	110	(59-156)
1,4-Dichlorobenzene	105	(18-190)
1,1-Dichloroethane	100	(64-145)
1,2-Dichloroethane	103	(66-150)
1,1-Dichloroethene	104	(70-143)
trans-1,2-Dichloroethene	101	(58-140)
1,2-Dichloropropane	100	(71-142)
cis-1,3-Dichloropropene	103	(59-140)
trans-1,3-Dichloropropene	104	(53-148)
Ethylbenzene	101	(70-140)
Methylene chloride	97	(72-144)
1,1,2,2-Tetrachloroethane	104	(52-153)
Tetrachloroethene	103	(67-136)
Toluene	106	(79-122)
1,1,1-Trichloroethane	105	(67-137)
1,1,2-Trichloroethane	101	(70-140)
Trichloroethene	104	(76-121)
Trichlorofluoromethane	122	(17-181)
Vinyl chloride	109	(47-156)

Quanterra
Environmental Services

CHECK SAMPLE REPORT

QC BATCH: 5209051
LAB #: A5G280000-051 C
DILUTION FACTOR: 1.00

PREPARATION DATE: 7/28/95
DATE ANALYZED: 8/02/95

GC/MS Semi-Volatiles

COMPOUND	SPIKE PERCENT RECOVERY	Q/C LIMITS
Acenaphthene	93	(48-113)
Acenaphthylene	90	(47-111)
Anthracene	89	(53-107)
Benzo(a)anthracene	85	(53-110)
Benzo(b)fluoranthene	96	(43-110)
Benzo(k)fluoranthene	104	(36-136)
Benzo(a)pyrene	84	(28-114)
Benzo(ghi)perylene	84	(17-120)
Benzyl butyl phthalate	91	(35-110)
bis(2-Chloroethyl) ether	83	(44-95)
bis(2-Chloroethoxy)methane	84	(50-106)
bis(2-Chloroisopropyl) ether	71	(21-122)
bis(2-Ethylhexyl) phthalate	90	(30-123)
4-Bromophenyl phenyl ether	82	(52-114)
2-Chloronaphthalene	86	(43-111)
4-Chlorophenyl phenyl ether	81	(48-124)
Chrysene	92	(54-120)
Dibenzo(a,h)anthracene	82	(23-112)
Di-n-butyl phthalate	96	(44-115)
1,2-Dichlorobenzene	62	(43-95)
1,3-Dichlorobenzene	56	(41-92)
1,4-Dichlorobenzene	59	(37-92)
3,3'-Dichlorobenzidine	52	(19-137)
Diethyl phthalate	62	(16-129)
Dimethyl phthalate	35	(10-115)
2,4-Dinitrotoluene	85	(37-131)
2,6-Dinitrotoluene	92	(40-121)
Di-n-octyl phthalate	93	(25-123)
Fluoranthene	83	(35-131)
Fluorene	88	(45-124)
Hexachlorobenzene	79	(53-110)
Hexachlorobutadiene	63	(45-96)
Hexachloroethane	58	(38-90)
Indeno(1,2,3-cd)pyrene	89	(28-112)
Isophorone	84	(44-105)
Naphthalene	77	(44-99)
Nitrobenzene	82	(44-102)
N-Nitrosodi-n-propylamine	77	(31-113)
Phenanthrene	95	(50-109)
Pyrene	93	(39-159)
1,2,4-Trichlorobenzene	69	(39-136)

Quanterra
Environmental Services

CHECK SAMPLE REPORT

QC BATCH: 5209051
LAB #: A5G280000-051 C
DILUTION FACTOR: 1.00

PREPARATION DATE: 7/28/95
DATE ANALYZED: 8/02/95

GC/MS Semi-Volatiles

COMPOUND	SPIKE PERCENT RECOVERY	Q/C LIMITS
4-Chloro-3-methylphenol	85	(30-117)
2-Chlorophenol	79	(35-111)
2,4-Dichlorophenol	80	(33-93)
2,4-Dimethylphenol	27	(23-74)
2,4-Dinitrophenol	81	(10-96)
4,6-Dinitro-2-methylphenol	87	(10-115)
2-Nitrophenol	75	(10-99)
4-Nitrophenol	110	(10-128)
Pentachlorophenol	82	(10-113)
Phenol	80	(12-116)
2,4,6-Trichlorophenol	82	(22-102)

Quanterra
Environmental
Services

CHECK SAMPLE REPORT

LAB #: A5G270132

METALS

COMPOUND	SPIKE PERCENT RECOVERY	Q/C LIMITS	PREPARATION - ANALYSIS DATE
	BATCH:5214008		
Aluminum	102	(80-120)	8/02- 8/03/95
Barium	106	(80-120)	8/02- 8/03/95
Boron	102	(80-120)	8/02- 8/03/95
Cobalt	107	(80-120)	8/02- 8/03/95
Iron	106	(80-120)	8/02- 8/03/95
Magnesium	104	(80-120)	8/02- 8/03/95
Manganese	108	(80-120)	8/02- 8/03/95
Molybdenum	106	(80-120)	8/02- 8/03/95
Tin	105	(80-120)	8/02- 8/09/95
Titanium	108	(80-120)	8/02- 8/03/95

Quanterra
Environmental Services

CHECK SAMPLE REPORT

LAB #: A5G270132

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COMPOUND	SPIKE PERCENT RECOVERY	LIMITS	PREPARATION - ANALYSIS DATE	Q/C BATCH
Bromide (Titrimetric)	104	(68-129)	8/10/95	5222080
Fluoride (Colorimetric, Ion Selective Electrode)	102	(87-113)	8/07/95	5219030
Nitrate-Nitrite	99	(88-110)	8/03- 8/04/95	5216012
Nitrate-Nitrite	99	(88-110)	8/11/95	5223079
Total phosphorus	109	(81-119)	8/01- 8/02/95	5213094
Sulfide	98	(55-121)	8/02/95	5214107
Sulfite	100	(57-116)	7/27/95	5216038
Surfactants (MBAS)	109	(82-116)	7/27/95	5209029
Oil & Grease (Gravimetric)	106	(70-134)	8/09- 8/10/95	5221047
Sulfate	97	(84-114)	8/11/95	5223080

Quanterra
Environmental Services

METHOD BLANK REPORT

LAB #: A5H100000-044
DILUTION FACTOR: 1.00

GC/MS Volatiles

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	PREPARATION - ANALYSIS DATE	QC BATCH
Acrolein	ND	100	8/08/95	5222044
Acrylonitrile	ND	100	8/08/95	5222044
Benzene	ND	5.0	8/08/95	5222044
Dichlorobromomethane	ND	5.0	8/08/95	5222044
Bromoform	ND	5.0	8/08/95	5222044
Bromomethane	ND	10	8/08/95	5222044
Carbon tetrachloride	ND	5.0	8/08/95	5222044
Chlorobenzene	ND	5.0	8/08/95	5222044
Chlorodibromomethane	ND	5.0	8/08/95	5222044
Chloroethane	ND	10	8/08/95	5222044
Chloroform	ND	5.0	8/08/95	5222044
Chloromethane	ND	10	8/08/95	5222044
1,1-Dichloroethane	ND	5.0	8/08/95	5222044
1,2-Dichloroethane	ND	5.0	8/08/95	5222044
1,1-Dichloroethene	ND	5.0	8/08/95	5222044
1,2-Dichloroethene (total)	ND	5.0	8/08/95	5222044
1,2-Dichloropropane	ND	5.0	8/08/95	5222044
cis-1,3-Dichloropropene	ND	5.0	8/08/95	5222044
trans-1,3-Dichloropropene	ND	5.0	8/08/95	5222044
Ethylbenzene	ND	5.0	8/08/95	5222044
Methylene chloride	ND	10	8/08/95	5222044
1,1,2,2-Tetrachloroethane	ND	5.0	8/08/95	5222044
Tetrachloroethene	ND	5.0	8/08/95	5222044
Toluene	ND	5.0	8/08/95	5222044
1,1,1-Trichloroethane	ND	5.0	8/08/95	5222044

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Toluene-d8	98	(88 - 110)
Bromofluorobenzene	96	(86 - 115)
1,2-Dichloroethane-d4	103	(76 - 114)

NOTE:

ND (NONE DETECTED)

Quanterra
Environmental Services

METHOD BLANK REPORT

LAB #: A5H100000-044
DILUTION FACTOR: 1.00

GC/MS Volatiles

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	PREPARATION - ANALYSIS DATE	QC BATCH
1,1,2-Trichloroethane	ND	5.0	8/08/95	5222044
Trichloroethene	ND	5.0	8/08/95	5222044
Vinyl chloride	ND	10	8/08/95	5222044

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Toluene-d8	98	(88 - 110)
Bromofluorobenzene	96	(86 - 115)
1,2-Dichloroethane-d4	103	(76 - 114)

NOTE:

ND (NONE DETECTED)

Quanterra Environmental Services

METHOD BLANK REPORT

LAB #: A5G280000-051
DILUTION FACTOR: 1.00

GC/MS Semi-Volatiles

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	PREPARATION - ANALYSIS DATE	QC BATCH
Acenaphthene	ND	10	7/28- 8/03/95	5209051
Acenaphthylene	ND	10	7/28- 8/03/95	5209051
Anthracene	ND	10	7/28- 8/03/95	5209051
Benzidine	ND	100	7/28- 8/03/95	5209051
Benzo(a)anthracene	ND	10	7/28- 8/03/95	5209051
Benzo(b)fluoranthene	ND	10	7/28- 8/03/95	5209051
Benzo(k)fluoranthene	ND	10	7/28- 8/03/95	5209051
Benzo(ghi)perylene	ND	10	7/28- 8/03/95	5209051
Benzo(a)pyrene	ND	10	7/28- 8/03/95	5209051
bis(2-Chloroethoxy)methane	ND	10	7/28- 8/03/95	5209051
bis(2-Chloroethyl) ether	ND	10	7/28- 8/03/95	5209051
bis(2-Chloroisopropyl) ether	ND	10	7/28- 8/03/95	5209051
bis(2-Ethylhexyl) phthalate	ND	10	7/28- 8/03/95	5209051
4-Bromophenyl phenyl ether	ND	10	7/28- 8/03/95	5209051
Butyl benzyl phthalate	ND	10	7/28- 8/03/95	5209051
p-Chloro-m-cresol	ND	10	7/28- 8/03/95	5209051
2-Chloronaphthalene	ND	10	7/28- 8/03/95	5209051
2-Chlorophenol	ND	10	7/28- 8/03/95	5209051
4-Chlorophenyl phenyl ether	ND	10	7/28- 8/03/95	5209051
Chrysene	ND	10	7/28- 8/03/95	5209051
Dibenz(a,h)anthracene	ND	10	7/28- 8/03/95	5209051
Di-n-butyl phthalate	ND	10	7/28- 8/03/95	5209051
1,2-Dichlorobenzene	ND	10	7/28- 8/03/95	5209051
1,3-Dichlorobenzene	ND	10	7/28- 8/03/95	5209051
1,4-Dichlorobenzene	ND	10	7/28- 8/03/95	5209051

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
2-Fluorophenol	61	(17 - 106)
Phenol-d5	62	(15 - 126)
2,4,6-Tribromophenol	61	(13 - 145)
Nitrobenzene-d5	76	(36 - 148)
2-Fluorobiphenyl	66	(38 - 106)
Terphenyl-d14	110	(10 - 169)

NOTE:

ND (NONE DETECTED)

Quanterra Environmental Services

METHOD BLANK REPORT

LAB #: A5G280000-051
DILUTION FACTOR: 1.00

GC/MS Semi-Volatiles

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	PREPARATION - ANALYSIS DATE	QC BATCH
3,3'-Dichlorobenzidine	ND	10	7/28- 8/03/95	5209051
2,4-Dichlorophenol	ND	10	7/28- 8/03/95	5209051
Diethyl phthalate	ND	10	7/28- 8/03/95	5209051
2,4-Dimethylphenol	ND	10	7/28- 8/03/95	5209051
Dimethyl phthalate	ND	10	7/28- 8/03/95	5209051
Di-n-octyl phthalate	ND	10	7/28- 8/03/95	5209051
4,6-Dinitro-o-cresol	ND	50	7/28- 8/03/95	5209051
2,4-Dinitrophenol	ND	50	7/28- 8/03/95	5209051
2,4-Dinitrotoluene	ND	10	7/28- 8/03/95	5209051
2,6-Dinitrotoluene	ND	10	7/28- 8/03/95	5209051
1,2-Diphenylhydrazine	ND	10	7/28- 8/03/95	5209051
Fluoranthene	ND	10	7/28- 8/03/95	5209051
Fluorene	ND	10	7/28- 8/03/95	5209051
Hexachlorobenzene	ND	10	7/28- 8/03/95	5209051
Hexachlorobutadiene	ND	10	7/28- 8/03/95	5209051
Hexachlorocyclopentadiene	ND	10	7/28- 8/03/95	5209051
Hexachloroethane	ND	10	7/28- 8/03/95	5209051
Indeno(1,2,3-cd)pyrene	ND	10	7/28- 8/03/95	5209051
Isophorone	ND	10	7/28- 8/03/95	5209051
Naphthalene	ND	10	7/28- 8/03/95	5209051
Nitrobenzene	ND	10	7/28- 8/03/95	5209051
2-Nitrophenol	ND	10	7/28- 8/03/95	5209051
4-Nitrophenol	ND	50	7/28- 8/03/95	5209051
N-Nitrosodimethylamine	ND	10	7/28- 8/03/95	5209051
N-Nitrosodi-n-propylamine	ND	10	7/28- 8/03/95	5209051

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
2-Fluorophenol	61	(17 - 106)
Phenol-d5	62	(15 - 126)
2,4,6-Tribromophenol	61	(13 - 145)
Nitrobenzene-d5	76	(36 - 148)
2-Fluorobiphenyl	66	(38 - 106)
Terphenyl-d14	110	(10 - 169)

NOTE:

ND (NONE DETECTED)

Quanterra
Environmental Services

METHOD BLANK REPORT

LAB #: A5G280000-051
DILUTION FACTOR: 1.00

GC/MS Semi-Volatiles

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	PREPARATION - ANALYSIS DATE	QC BATCH
N-Nitrosodiphenylamine	ND	10	7/28- 8/03/95	5209051
Pentachlorophenol	ND	50	7/28- 8/03/95	5209051
Phenanthrene	ND	10	7/28- 8/03/95	5209051
Phenol	ND	10	7/28- 8/03/95	5209051
Pyrene	ND	10	7/28- 8/03/95	5209051
1,2,4-Trichlorobenzene	ND	10	7/28- 8/03/95	5209051
2,4,6-Trichlorophenol	ND	10	7/28- 8/03/95	5209051

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
2-Fluorophenol	61	(17 - 106)
Phenol-d5	62	(15 - 126)
2,4,6-Tribromophenol	61	(13 - 145)
Nitrobenzene-d5	76	(36 - 148)
2-Fluorobiphenyl	66	(38 - 106)
Terphenyl-d14	110	(10 - 169)

NOTE:

ND (NONE DETECTED)

Quanterra
Environmental
Services

METHOD BLANK REPORT

LAB #: A5G270132

METALS

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE
		BATCH:5214008			
Aluminum	ND	0.20	mg/L	MCAWW 200.7	8/02- 8/03/95
Barium	ND	0.20	mg/L	MCAWW 200.7	8/02- 8/03/95
Boron	ND	0.20	mg/L	MCAWW 200.7	8/02- 8/03/95
Cobalt	ND	0.050	mg/L	MCAWW 200.7	8/02- 8/03/95
Iron	ND	0.10	mg/L	MCAWW 200.7	8/02- 8/03/95
Magnesium	ND	5.0	mg/L	MCAWW 200.7	8/02- 8/03/95
Manganese	ND	0.015	mg/L	MCAWW 200.7	8/02- 8/03/95
Molybdenum	ND	0.10	mg/L	MCAWW 200.7	8/02- 8/03/95
Tin	ND	1.0	mg/L	MCAWW 200.7	8/02- 8/09/95
Titanium	ND	0.010	mg/L	MCAWW 200.7	8/02- 8/03/95

NOTE:

ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental
Services

METHOD BLANK REPORT

LAB #: A5G270132

INORGANIC ANALYTICAL REPORT

PARAMETER	RESULT	REPORTING LIMIT	UNIT	PREPARATION - ANALYSIS DATE	QC BATCH
Color (Colorimetric, Platinum-Cobalt)	ND	5	C.U.	7/27/95	5209024
Bromide (Titrimetric)	ND	2	mg/L	8/10/95	5222080
Total residual chlorine (Spectrophotometric, DPD)	ND	0.2	mg/L	7/27/95	5209023
Fluoride (Colorimetric, Ion Selective Electrode)	ND	0.1	mg/L	8/07/95	5219030
Nitrate-Nitrite	ND	0.1	mg/L	8/03- 8/04/95	5216012
Nitrate-Nitrite	ND	0.1	mg/L	8/11/95	5223079
Total phosphorus (Colorimetric)	ND	0.1	mg/L	8/01- 8/02/95	5213094
Sulfide	ND	0.50	mg/L	8/02/95	5214107
Sulfite	ND	2	mg/L	7/27/95	5216038
Surfactants (MBAS)	ND	0.1	mg/L	7/27/95	5209029
Oil and Grease, Gravimetric	ND	5.0	mg/L	8/09- 8/10/95	5221047
Coliforms, Fecal	ND	10.0	/100mL	7/27- 7/28/95	5209026
Total Organic Nitrogen	ND	1	mg/L	8/11/95	5223088
Sulfate	ND	5	mg/L	8/11/95	5223080

NOTE:

ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

MATRIX SPIKE REPORT

QC BATCH: 5215097
LAB #: A5G220104-001 S
MATRIX: WATER
DILUTION FACTOR: 1.00

WO #: C0AND
PREPARATION DATE: 7/28/95
DATE ANALYZED: 7/28/95

GC/MS Volatiles

COMPOUND	SPIKE PERCENT RECOVERY	Q/C LIMITS
Benzene	99	(83-123)
Bromodichloromethane	104	(57-153)
Bromoform	96	(47-165)
Bromomethane	115	(76-150)
Carbon tetrachloride	111	(73-135)
Chlorobenzene	95	(85-120)
Chloroethane	0	(71-154)
2-Chloroethyl vinyl ether	54	(10-153)
Chloroform	93	(10-204)
Chloromethane	0	(44-151)
Dibromochloromethane	99	(60-146)
1,2-Dichlorobenzene	103	(18-190)
1,3-Dichlorobenzene	105	(59-156)
1,4-Dichlorobenzene	102	(18-190)
1,1-Dichloroethane	93	(53-148)
1,2-Dichloroethane	98	(52-167)
1,1-Dichloroethene	97	(55-142)
trans-1,2-Dichloroethene	94	(55-139)
1,2-Dichloropropane	95	(64-146)
cis-1,3-Dichloropropene	100	(52-135)
trans-1,3-Dichloropropene	102	(50-144)
Ethylbenzene	95	(72-140)
Methylene chloride	94	(62-152)
1,1,2,2-Tetrachloroethane	96	(53-149)
Tetrachloroethene	98	(67-141)
Toluene	104	(82-122)
1,1,1-Trichloroethane	105	(33-171)
1,1,2-Trichloroethane	94	(73-138)
Trichloroethene	100	(77-124)
Trichlorofluoromethane	117	(17-181)
Vinyl chloride	93	(48-161)

Calculations are performed before rounding to avoid round-off errors in calculated results

Quanterra
Environmental Services

MATRIX SPIKE REPORT

QC BATCH: 5109160
LAB #: A5D190060-001 S
MATRIX: WATER

WO #: A436G
PREPARATION DATE: 4/19/95
DATE ANALYZED: 5/01/95

GC/MS Semi-Volatiles

COMPOUND	SPIKE PERCENT RECOVERY	Q/C LIMITS
Acenaphthene	79	(45-112)
Acenaphthylene	84	(30-122)
Anthracene	77	(18-133)
Benzo(a)anthracene	74	(17-130)
Benzo(b)fluoranthene	63	(29-108)
Benzo(k)fluoranthene	62	(23-127)
Benzo(a)pyrene	58	(13-126)
Benzo(g,h,i)perylene	34	(10-128)
Benzyl butyl phthalate	71	(10-152)
bis(2-Chloroethyl)ether	99	(29-103)
bis(2-Chloroethoxy)methane	84	(29-130)
bis(2-Chloroisopropyl)ether	79	(19-150)
bis(2-Ethylhexyl)phthalate	83	(12-145)
4-Bromophenyl phenyl ether	79	(32-128)
2-Chloronaphthalene	79	(27-125)
4-Chlorophenyl phenyl ether	81	(33-131)
Chrysene	75	(20-138)
Dibenzo(a,h)anthracene	39	(18-116)
Di-n-butyl phthalate	68	(24-126)
1,2-Dichlorobenzene	81	(28-103)
1,3-Dichlorobenzene	80	(31-97)
1,4-Dichlorobenzene	80	(33-90)
3,3'-Dichlorobenzidine	0	(10-139)
Diethyl phthalate	55	(27-110)
Dimethyl phthalate	68	(10-101)
2,4-Dinitrotoluene	68	(37-124)
2,6-Dinitrotoluene	68	(23-130)
Di-n-octyl phthalate	72	(31-110)
Fluoranthene	77	(26-123)
Fluorene	84	(32-122)
Hexachlorobenzene	88	(34-129)
Hexachlorobutadiene	77	(31-109)
Hexachloroethane	78	(32-95)
Indeno(1,2,3-cd)pyrene	41	(13-127)
Isophorone	83	(19-133)
Naphthalene	84	(32-111)
Nitrobenzene	84	(34-114)
N-Nitrosodi-n-propylamine	90	(10-230)
Phenanthrene	82	(30-120)

Quanterra
Environmental Services

MATRIX SPIKE REPORT

QC BATCH: 5109160
LAB #: A5D190060-001 S
MATRIX: WATER

WO #: A436G
PREPARATION DATE: 4/19/95
DATE ANALYZED: 5/01/95

GC/MS Semi-Volatiles

COMPOUND	SPIKE PERCENT RECOVERY	Q/C LIMITS
Pyrene	52	(15-185)
1,2,4-Trichlorobenzene	79	(40-133)
4-Chloro-3-methylphenol	90	(?1-120)
2-Chlorophenol	88	(10-134)
2,4-Dichlorophenol	90	(34-100)
2,4-Dimethylphenol	70	(11-78)
2,4-Dinitrophenol	55	(10-114)
4,6-Dinitro-2-methylphenol	66	(10-181)
2-Nitrophenol	73	(19-107)
4-Nitrophenol	55	(10-144)
Pentachlorophenol	74	(10-122)
Phenol	90	(10-107)
2,4,6-Trichlorophenol	106	(18-118)

Calculations are performed before rounding to avoid round-off errors in calculated results

Quanterra
Environmental Services

METALS SPIKE REPORT

WATER - ICP

COMPOUND	SPIKE PERCENT RECOVERY	SPIKE/DUP PERCENT RECOVERY	Q/C LIMITS	RPD	RPD LIMITS	PREPARATION-ANALYSIS DATE	W/O#
			-METALS-				
Silver	101	96	(61-126)	5	(0-20)	6/02-6/07/95	A4P8
Aluminum	84	86	(56-147)	2	(0-20)	5/22-5/24/95	A4L9
Arsenic	95	94	(51-146)	1	(0-20)	5/26-6/01/95	A4LM
Boron	90	90	(73-110)	0	(0-20)	3/20-3/24/95	A3E[illegible]
Barium	100	95	(79-116)	5	(0-20)	6/02-6/07/95	A4P8
Beryllium	105	100	(76-117)	5	(0-20)	6/02-6/07/95	A4P8
Calcium	99	87	(40-146)	13	(0-20)	6/02-6/07/95	A4P8
Cadmium	106	101	(70-109)	5	(0-20)	6/02-6/07/95	A4P8
Cobalt	103	98	(75-110)	5	(0-20)	6/02-6/07/95	A49[illegible]
Chromium	105	101	(74-117)	4	(0-20)	6/02-6/07/95	A4P[illegible]
Copper	101	97	(77-112)	4	(0-20)	6/02-6/07/95	A4P[illegible]
Iron	98	86	(45-146)	13	(0-20)	6/02-6/07/95	A4P[illegible]
Potassium	91	85	(67-123)	7	(0-20)	6/02-6/07/95	A4P[illegible]
Magnesium	99	93	(71-112)	6	(0-20)	6/02-6/07/95	A4P[illegible]
Manganese	104	97	(57-131)	7	(0-20)	6/02-6/07/95	A4P[illegible]
Molybdenum	96	96	(90-114)	0	(0-20)	3/20-3/21/95	A3E[illegible]
Sodium	93	95	(40-144)	2	(0-20)	6/02-6/07/95	A4P[illegible]
Nickel	104	99	(73-109)	5	(0-20)	6/02-6/07/95	A4P[illegible]
Lead	103	96	(72-114)	7	(0-20)	6/02-6/07/95	A4P[illegible]
Antimony	105	100	(73-112)	5	(0-20)	6/02-6/07/95	A4P[illegible]
Selenium	97	97	(30-175)	0	(0-20)	5/26-6/01/95	A4LM
Tin	113	104	(73-123)	8	(0-20)	5/22-5/25/95	A4M[illegible]
Strontium	95	90	(83-112)	5	(0-20)	6/05-6/08/95	A4Q[illegible]
Titanium	93	94	(80-111)	1	(0-20)	3/20-3/24/95	A3E[illegible]
Thallium	95	90	(57-121)	5	(0-20)	6/02-6/07/95	A4P[illegible]
Tungsten	90	97	(72-112)	7	(0-20)	3/03-3/06/95	A31[illegible]
Vanadium	104	98	(79-112)	6	(0-20)	6/02-6/07/95	A4P[illegible]
Zinc	100	109	(67-118)	9	(0-20)	6/02-6/07/95	A4P[illegible]
Osmium	92	98	(80-120)	6	(0-20)	3/16-3/29/95	A39[illegible]
Lithium	96	96	(80-120)	0	(0-20)	3/22-3/29/95	A3D[illegible]

Quanterra
Environmental Services

MATRIX SPIKE REPORT

QC BATCH: 5222080
LAB #: A5G180127-001 S
MATRIX: WATER

WO #: C08M9
PREPARATION DATE: 8/10/95
DATE ANALYZED: 8/10/95

Bromide (Titrimetric)

COMPOUND	SPIKE PERCENT RECOVERY	SPIKE/DUP PERCENT RECOVERY	Q/C LIMITS	RPD	RPD LIMIT
Bromide (Titrimetric)	66	69	(68-129)	4.6	(0-20)

Calculations are performed before rounding to avoid round-off errors in calculated results

Quanterra
Environmental
Services

MATRIX SPIKE REPORT

QC BATCH: 5219030
LAB #: A5G270125-003 S
MATRIX: WATER

WO #: C0DX0
PREPARATION DATE: 8/07/95
DATE ANALYZED: 8/07/95

- - - - - - - - - - Fluoride (Colorimetric, Ion Selective Electrode) - - - - - - - - - -

COMPOUND	SPIKE PERCENT RECOVERY	SPIKE/DUP PERCENT RECOVERY	Q/C LIMITS	RPD	RPD LIMIT
Fluoride (Colorimetric, Ion Selective Electrode)	102	101	(61-133)	0.98	(0-33)

Calculations are performed before rounding to avoid round-off errors in calculated results

Quanterra
Environmental Services

MATRIX SPIKE REPORT

QC BATCH: 5214135
LAB #: A5G120104-004 S
MATRIX: WATER

WO #: C0658
PREPARATION DATE: 8/02/95
DATE ANALYZED: 8/02/95

Nitrate-Nitrite

COMPOUND	SPIKE PERCENT RECOVERY	SPIKE/DUP PERCENT RECOVERY	Q/C LIMITS	RPD	RPD LIMIT
Nitrate-Nitrite	144	144	(73-121)	0.27	(0-15)

Calculations are performed before rounding to avoid round-off errors in calculated results

Quanterra
Environmental Services

MATRIX SPIKE REPORT

QC BATCH: 5213094
LAB #: A5G270132-003 S
MATRIX: WATER

WO #: C0E25
PREPARATION DATE: 8/01/95
DATE ANALYZED: 8/02/95

Phosphorus, All Forms (Colorimetric)

COMPOUND	SPIKE PERCENT RECOVERY	SPIKE/DUP PERCENT RECOVERY	Q/C LIMITS	RPD	RPD LIMIT
Total phosphorus (Colorimetric)	120	122	(22-156)	1.1	(0-63)

Calculations are performed before rounding to avoid round-off errors in calculated results

Quanterra
Environmental
Services

MATRIX SPIKE REPORT

QC BATCH: 5214107
LAB #: A5G270132-001 S
MATRIX: WATER

WO #: C0E22
PREPARATION DATE: 8/02/95
DATE ANALYZED: 8/02/95

Sulfide

COMPOUND	SPIKE PERCENT RECOVERY	SPIKE/DUP PERCENT RECOVERY	Q/C LIMITS	RPD	RPD LIMIT
Sulfide	72	80	(26-197)	11	(0-11)

Calculations are performed before rounding to avoid round-off errors in calculated results

Quanterra
Environmental Services

MATRIX SPIKE REPORT

QC BATCH: 5216038
LAB #: A5G270132-003 S
MATRIX: WATER

WO #: C0E25
PREPARATION DATE: 7/27/95
DATE ANALYZED: 7/27/95

Sulfite

COMPOUND	SPIKE PERCENT RECOVERY	SPIKE/DUP PERCENT RECOVERY	Q/C LIMITS	RPD	RPD LIMIT
Sulfite	95	100	(51-121)	5.1	(0-18)

Calculations are performed before rounding to avoid round-off errors in calculated results

Quanterra
Environmental Services

MATRIX SPIKE REPORT

QC BATCH: 5209029
LAB #: A5G260109-006 S
MATRIX: WATER

WO #: C0D4H
PREPARATION DATE: 7/27/95
DATE ANALYZED: 7/27/95

Surfactants (MBAS)

COMPOUND	SPIKE PERCENT RECOVERY	SPIKE/DUP PERCENT RECOVERY	Q/C LIMITS	RPD	RPD LIMIT
Surfactants (MBAS)	105	115	(49-141)	9.2	(0-44)

Calculations are performed before rounding to avoid round-off errors in calculated results

Quanterra
Environmental
Services

MATRIX SPIKE REPORT

QC BATCH: 5194055
LAB #: A5F170021-005 S
MATRIX: WATER

WO #: A53M5
PREPARATION DATE: 7/13/95
DATE ANALYZED: 7/13/95

Sulfate

COMPOUND	SPIKE PERCENT RECOVERY	SPIKE/DUP PERCENT RECOVERY	Q/C LIMITS	RPD	RPD LIMIT
Sulfate	89	86	(71-119)	3.7	(0-13)

Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody Record

Quanterra Environmental Services

QUA-4124

Client	Project Manager	Date	Chain Of Custody Number
Perry Nuclear Power Plant	Donna G. Tizzano		07365
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page ____ of ____**
10 Center Rd.	(216)280-5514 / (216)280-8001		
City / **State** / **Zip Code**	**Site Contact**		
Perry / OH / 44081	Same as above		
Project Name	**Carrier/Waybill Number**		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Preservative	Condition on Receipt	Analysis
~~Pointing of Discharge~~ OUTFALL 002	7-27-95			9,915 L	P+G				
SW Forebay	7-27-95								
Neutralization Basin	7-27-95								

Special Instructions

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Turn Around Time Required

☐ Normal ☐ Rush

QC Level

☐ I. ☐ II. ☐ III.

Project Specific (Specify)

	Date	Time		Date	Time
1. Relinquished By			1. Received By		
2. Relinquished By Donna G. Tizzano	7-28-95	3:25	2. Received By		
3. Relinquished By			3. Received By Kathleen Graves	950707	335

Comments