REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8609110126 DOC. DATE: 86/09/02 NOTARIZED: NO DOCKET #
FACIL: 50-438 Bellefonte Nuclear Plant, Unit 1, Tennessee Valley Au 05000438
50-439 Bellefonte Nuclear Plant, Unit 2, Tennessee Valley Au 05000439
AUTH. NAME AUTHOR AFFILIATION
RIVERS, M. E. Tennessee Valley Authority
RECIP. NAME RECIPIENT AFFILIATION
Alabama, State of

SUBJECT: Forwards supplemental info for renewal of NPDES Permit AL-0024635. Info reflects current permit & subsequent correspondense last issued on 850508, including reductions in monitoring frequencies. S66 Rpt

DISTRIBUTION CODE: C001L COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 114
TITLE: Licensing Submittal: Environmental Rept Amdt & Related Correspondence

NOTES: OIA 1cy. Application for permit renewal filed. 05000438
OIA 1cy. Application for permit renewal filed. 05000439

| | RECIPIENT ID CODE/NAME | | COPIES LTTR | COPIES ENCL | RECIPIENT ID CODE/NAME | | COPIES LTTR | COPIES ENCL |
|---|---|---|---|---|---|---|---|---|
| | PWR-B EB | | 1 | 1 | PWR-B PD6 LA | 19 | 1 | 1 |
| | PWR-B PD6 PD | 18 | 1 | 1 | KALMAN, G | 04 | 1 | 1 |
| INTERNAL: | ACRS | 20 | 16 | 16 | ADM/LFMB | | 1 | 0 |
| | AEOD/PTB | | 1 | 1 | ELD/HD82 | | 1 | 0 |
| | NRR PWR-B ADTS | | 1 | 1 | NRR PWR-B ADTS | | 1 | 1 |
| | REG FILE | | 1 | 1 | RGN2 | | 1 | 1 |
| EXTERNAL: | LPDR | 03 | 1 | 1 | NRC PDR | 02 | 1 | 1 |
| | NSIC | 05 | 1 | 1 | | | | |
| NOTES: | | | 1 | 1 | | | | |

TOTAL NUMBER OF COPIES REQUIRED: LTTR 31 ENCL 29

TENNESSEE VALLEY AUTHORITY
KNOXVILLE, TENNESSEE 37902

SEP 2 1986

Permit Coordination Center
Alabama Department of
Environmental Management
1751 Federal Drive
Montgomery, Alabama 36130

Gentlemen:

BELLEFONTE NUCLEAR PLANT (BLN) - NPDES PERMIT NO. AL0024635 - RENEWAL APPLICATION

Enclosed are two copies of NPDES Forms 1 and 2C and the NPDES Supplementary Information Form for renewal of the BLN permit (Enclosure 1). A check for the appropriate permit fee is being provided under separate cover.

Proposed changes to the permit are requested and justified in Enclosure 2. Except for various changes for clarification and some reductions in monitoring frequencies, the permit application package reflects the current permit and subsequent correspondence (last issued May 8, 1985). While construction efforts at BLN have been reduced considerably (fuel load for Unit 1 is now projected for July 1993 instead of 1988), we have retained all of the discharges in the permit for continuity and operational flexibility.

Because of the reduction in the construction effort at BLN, some of the previously active discharges presently have no flow. For purposes of Form 2C, Item V, past Discharge Monitoring Report data have been summarized where applicable. For those operational discharges which have not previously had a discharge, waste characterization based on similar discharges at TVA's other nuclear plants have been used.

If you have any questions concerning the enclosed information, please call Madonna Martin at (615) 632-6695 in Knoxville, Tennessee.

Sincerely,

Martin E. Rivers

Martin E. Rivers, Director
Environmental Quality

Enclosures
cc: See page 2

Cool
1/1

8609110126 860902
PDR ADOCK 05000438
A PDR

Permit Coordination Center

SEP 2 1986

cc (Enclosures):
Dr. J. Nelson Grace, Regional Administrator
U.S. Nuclear Regulatory Commission, Region II
101 Marietta Street, NW., Suite 2900
Atlanta, Georgia 30303

Mr. B. Youngblood, Project Director
PWR Project Directorate No. 4
Division of Pressurized Water
Reactor (PWR) Licensing A
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

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

*Form Approved. OMB No. 2000-0474. Approval expires 4-30-85*

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 AL 5 6 4 0 0 9 0 0 0 2 D

**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.

**LABEL ITEMS**

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

## 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 O of the instructions for definitions of bold-faced terms.

| 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 BELLEFONTE NUCLEAR PLANT

## IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*: 2 RUSSELL RAY N

B. PHONE *(area code & no.)*: 205 259 5536

## V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX: 3 PO BOX 2000

B. CITY OR TOWN: 4 HOLLYWOOD

C. STATE: AL

D. ZIP CODE: 35752

## VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER: 5 7 MILES NE SCOTTSBORO ALABAMA

B. COUNTY NAME: JACKSON

C. CITY OR TOWN: 6 HOLLYWOOD

D. STATE: AL

E. ZIP CODE: 35752

F. COUNTY CODE *(if known)*:



CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

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

| A. FIRST | B. SECOND |
|---|---|
| 7 4 9 1 1 (specify) ELECTRIC POWER GENERATION | 7 (specify) |
| **C. THIRD** | **D. FOURTH** |
| 7 (specify) | 7 (specify) |

## VIII. OPERATOR INFORMATION

**A. NAME**: 8 TENNESSEE VALLEY AUTHORITY

**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)

F (specify)

**D. PHONE** (area code & no.): A 615 632 6578

**E. STREET OR P.O. BOX**: 201 SUMMER PLACE BLDG

**F. CITY OR TOWN**: B KNOXVILLE

**G. STATE**: TN

**H. ZIP CODE**: 37902

## 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 AL0024635 | **D. PSD** (Air Emissions from Proposed Sources): 9 P |
| **B. UIC** (Underground Injection of Fluids): 9 U | **E. OTHER** (specify): 9 AL5640090002 (specify) HAZARDOUS WASTE GENERATOR IDENTIFICATION NO. |
| **C. RCRA** (Hazardous Wastes): 9 R | **E. OTHER** (specify): 9 (specify) |

## XI. MAP

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

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

PRODUCTION OF ELECTRIC POWER BY THERMONUCLEAR FISSION AND OTHER ASSOCIATED OPERATIONS.

## XIII. CERTIFICATION (see instructions)

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

| A. NAME & OFFICIAL TITLE (type or print) | B. SIGNATURE | C. DATE SIGNED |
|---|---|---|
| M.E. RIVERS<br>DIRECTOR ENVIRONMENTAL QUALITY | | |

**COMMENTS FOR OFFICIAL USE ONLY**

C

**Alabama Department of Environmental Management**
*Water Division—Industrial Waste Control Section*
NPDES Permit Application • Supplementary Information

Instructions: This form should be typed or printed in ink. *Do not complete shaded blocks.*

1.
CARD 20 (1–2) FACILITY # I (3–10) FACILITY NAME BELLEFONTE NUCLEAR PLT (15–36)
FACILITY LOCATION JACKSON COUNTY ALA (37–56) FACILITY CITY HOLLYWOOD ALABAMA (57–74)
AL (75 76) AREA (77–79) CARD CODE (80)

2.
CARD 21 (1–2) FACILITY # I (3–10) A (15) PRIMARY SIC CODE 4911 (16–19) SECONDARY SIC CODE (20–23) MAJ/MIN M (28) NPDES PERMIT # (If Known) AL0024635 (29–37) CARD CODE (80)

3.
CARD 22 (1–2) FACILITY # I (3–10) RESPONSIBLE OFFICIAL OR CORPORATE OFFICER * M. E. RIVERS (15–29) TITLE DIR ENV QUAL (30–41)
MAILING ADDRESS 201 SUMMER PL BLDG (42–60) CITY KNOXVILLE (61–72) STATE TN (73 74) ZIP CODE 37902 (75–79) CARD CODE (80)

4.
CARD 23 (1–2) FACILITY # I (3–10) FACILITY CONTACT PERSON RAY N RUSSELL (15–29) TITLE SI SRV MNG (30–39)
MAILING ADDRESS PO BOX 2000 (40–60) CITY HOLLYWOOD (61–72) STATE AL (73 74)
ZIP CODE 35752 (75–79) CARD CODE (80)

5.
CARD 24 (1–2) FACILITY # I (3–10) CONTACT TELEPHONE # 205 - 259 - 5536 (15–17, 18–20, 21–24) CARD CODE (80)

* See Attached 'Signatory Requirements for Permit Applications' for proper person(s)



ADEM FORM 187 7/84

6. Parent corporation of applicant, if any, and mailing address: NOT APPLICABLE

7. Subsidiary corporation(s) of applicant operating in Alabama, if any: NOT APPLICABLE

8. Permit numbers and/or names of any Alabama water pollution control permits presently held by the applicants parent or subsidiary corporations:

| Permit Name | Permit # | Held By |
|---|---|---|
| NOT APPLICABLE | | |

9. Provide a description of the location of all sites involved in the storage of solid or liquid waste generated by the facility for which the NPDES application is being made. Where possible the locations should be noted on the map required by item XI of the NPDES application being made:

| Description of Waste | Description of Storage Location |
|---|---|
| CHEMICAL METAL CLEANING WASTE | APPROXIMATELY 1 MILLION GALLON RUBBER LINED POND LOCATED APPROXIMATELY 1/4-MILE NORTH WEST OF THE REACTOR BUILDING |
| ALUM SLUDGE | ASPHALT LINED PONDS LOCATED APPROXIMATELY 1/4-MILE SOUTH WEST OF THE REACTOR BUILDING |
| SUMP COLLECTION PONDS | TWIN 750,000 GALLON RIPRAP-LINED PONDS LOCATED APPROXIMATELY 1/2-MILE SOUTH OF THE REACTOR BUILDING |

6. Parent corporation of applicant, if any, and mailing address: NOT APPLICABLE

7. Subsidiary corporation(s) of applicant operating in Alabama, if any: NOT APPLICABLE

8. Permit numbers and/or names of any Alabama water pollution control permits presently held by the applicants parent or subsidiary corporations:

| Permit Name | Permit # | Held By |
|---|---|---|
| NOT APPLICABLE | | |

9. Provide a description of the location of all sites involved in the storage of solid or liquid waste generated by the facility for which the NPDES application is being made. Where possible the locations should be noted on the map required by item XI of the NPDES application being made:

| Description of Waste | Description of Storage Location |
|---|---|
| PHOSPHATE METAL CLEANING WASTE | 2.6 ACRE AND 7.5 ACRE EARTHEN PONDS LOCATED APPROXIMATELY ¼ MILE NORTH WEST OF THE REACTOR BLDG.* |

*NOTE: THESE PONDS HAVE TO DATE BEEN USED AS STORAGE PONDS FOR LAND APPLICATION OF PHOSPHATE METAL CLEANING WASTE AS APP'D BY ADEM ON MARCH 22, 1984. NO PHOSPHATE METAL CLEANING IS ANTICIPATED BEFORE 1992. THEREFORE DIKES OF THESE PONDS HAVE BEEN BREACHED AS APP'D BY ADEM ON JUNE 10, 1986.

10. Provide a description of the location of the ultimate disposal sites of solid or liquid waste by products (such as sludges) from any treatment system for which this NPDES application is being made.

| Description of Waste | Description of Ultimate Disposal |
|---|---|
| PHOSPHATE METAL CLEANING WASTE | LAND APPLICATION ONSITE. APPROVED BY ADEM ON MARCH 22, 1984 |
| SLUDGE FROM EXTENDED AERATION SEWAGE TREATMENT PLANT | DISPOSAL BY PRIVATE CONTRACTOR IN CITY OF SCOTTSBORO, ALABAMA MUNICIPAL SEWAGE TREATMENT PLANT |

11. The information in this form must be certified by a responsible official, as defined by NPDES regulations (See attached 'Signatory Requirements for Permit Applications')

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.

M.E. RIVERS
DIR. ENVIRONMENTAL QUALITY

Name and Title of Responsible Official | Signature | Date Signed

BELLEFONTE NUCLEAR PLANT
NPDES PERMIT NO. AL0024635

FORM 2C ITEM V
SUPPLEMENTARY INFORMATION

The following outfall numbers either designate (1) plant raw water intake functions and are without limitation; or (2) operational discharges which have not begun discharging. Therefore, item V has not been completed for these outfalls.

Outfall number 011
Outfall number 013
Outfall number 015
Outfall number 016
Outfall number 017

Please print or type in the unshaded areas only.

EPA I.D. NUMBER(s) (from Item 1 of Form 1) AL5640090002

Form Approved OMB No. 158-R0173

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 1. DEG. | 2. MIN. | 3. SEC. | C. LONGITUDE 1. DEG. | 2. MIN. | 3. SEC. | D. RECEIVING WATER (name) |
|---|---|---|---|---|---|---|---|
| 002 | 34 | 43 | 00 | 85 | 56 | 00 | TOWN CREEK |
| 003 | 34 | 42 | 00 | 85 | 55 | 15 | TENNESSEE RIVER |
| 004 | 34 | 42 | 30 | 85 | 56 | 15 | TOWN CREEK |
| 001 | 34 | 42 | 00 | 85 | 55 | 15 | TENNESSEE RIVER |

Note: ALL OTHER OUTFALL NUMBERS ARE INTERNAL MONITORING POINTS DISCHARGING THROUGH OUTFALL NUMBER 003 LOCATED AS SHOWN ABOVE.

## 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 a. OPERATION (list) | b. AVERAGE FLOW (include units) | 3. TREATMENT a. DESCRIPTION | b. LIST CODES FROM TABLE 2C-1 | |
|---|---|---|---|---|---|
| 001 | CONSTRUCTION DOMESTIC | 0.032 MGD | THREE EXTENDED AERATION | 1 | L |
| | SEWAGE. ALSO MAY RECEIVE | | PACKAGE SEWAGE TREATMENT | 1 | T |
| | FLOW FROM THE FOLLOWING: | | PLANTS IN PARALLEL; | 3 | A |
| | | | 1-30,000 GPD, 2-15,000 GPD, | 1 | U |
| | | | WITH FLOW EQUALIZATION. | 5 | A |
| | | | WASTE SLUDGE PERIODICALLY | | |
| | | | REMOVED BY PRIVATE | | |
| | | | CONTRACTOR FOR DISPOSAL IN | | |
| | | | SCOTTSBORO, AL. SEWAGE | | |
| | | | TREATMENT PLANT. | | |
| | 1. PHOSPHATE METAL | UNKNOWN | TO DATE THIS WASTEWATER HAS | 1 | F |
| | CLEANING WASTE POND | | BEEN DISPOSED OF BY LAND | 1 | U |
| | DISCHARGE (OUTFALL | | APPLICATION ONSITE FOLLOWING | 5 | Q |
| | NUMBER 001A) TO THE | | SEDIMENTATION IN 2.6 ACRE | | |
| | CONSTRUCTION STP | | AND 7.5 ACRE STORAGE PONDS | | |
| | EFFLUENT. | | OPERATED IN PARALLEL. | | |
| | | | | | |
| | | | DISCHARGE TO THE EFFLUENT | | |
| | | | OF THE CONSTRUCTION STP IS A | | |
| | | | FUTURE DISPOSAL OPTION WHICH | | |
| | | | WOULD FOLLOW CHEMICAL | | |
| | | | TREATMENT IN THE STORAGE | | |
| | | | PONDS AS NECESSARY. SLUDGES | | |
| | | | MAY BE REMOVED, IF NECESSARY, | | |

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

Please print or type in the unshaded areas only.

EPA I.D. NUMBER (copy from Item 1 of Form 1) AL 5640090002

Form Approved OMB No. 158-R0173

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. | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## 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 effluen and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing averac flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined *(e.g., for certain mining activities)*, provide 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 wastewate cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Contin 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 FR TABLE 2C-1 | |
| 001 | | | FOR DISPOSAL IN AN APPROVED | | |
| Cont. | | | LANDFILL. | | |
| | | | | | |
| | 2. CHEMICAL METAL | 47,000 GPD | TO DATE THIS WASTEWATER HAS | 1 | F |
| | CLEANING WASTE TREATMENT | | BEEN DISCHARGED TO THE STP | 2 | K |
| | POND EFFLUENT (OUTFALL | | EFFLUENT FOLLOWING IN-POND | 5 | Q |
| | NUMBER 001B) TO INFLUENT | | NEUTRALIZATION. | | |
| | OR EFFLUENT OF THE | | | | |
| | CONSTRUCTION STP. | | OPTIONS INCLUDE IN-POND | | |
| | | | CHEMICAL TREATMENT AND/OR | | |
| | | | TREATMENT BY THE CONSTRUCTION | | |
| | | | STP. SLUDGES WILL BE REMOVED | | |
| | | | AT CONSTRUCTION COMPLETION | | |
| | | | FOR DISPOSAL VIA AN APPROVED | | |
| | | | DISPOSAL METHOD. | | |
| | | | | | |
| 002 | CONSTRUCTION HOLDING POND | | | | |
| | EFFLUENT WHICH RECEIVES FLOW | | | | |
| | FROM THE FOLLOWING: | | | | |
| | 1. CONSTRUCTION RAINFALL | 60,000 GPD | PERMANENT YARD DRAINAGE POND | 1 | U |
| | RUNOFF | (BASED UPON | WITH CAPACITY OF 40.1 ACRE- | | |
| | | ANNUAL AVERAGE | FEET WITH OIL SKIMMING WHICH | | |
| | | PRECIPITATION) | DISCHARGES TO A 18.4 ACRE- | | |
| | | | FEET CONSTRUCTION HOLDING | | |

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

Please print or type in the unshaded areas only.

EPA I.D. NUMBER (copy from Item 1 of Form 1) AL5640090002

Form Approved OMB No. 158-R0173

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. | |
| | | | | | | | |

## 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 | |
| 002 Cont. | | | POND WITH OIL SKIMMING. | | |
| | | | | | |
| | 2. YARD DRAINAGE | 603,000 GPD | YARD DRAINAGE POND AND | 1 | U |
| | | (BASED ON | CONSTRUCTION HOLDING POND | | |
| | | ANNUAL AVERAGE | | | |
| | | PRECIPITATION | | | |
| | | | | | |
| | 3. CONCRETE MIXING PLANT | 80,000 GPD | 2.2 ACRE-FEET PLANT AND | 1 | U |
| | WASTES (OUTFALL | | TRUCK WASHWATER SETTLING | 5 | Q |
| | NUMBERS 009 AND 010) | | POND WITH OIL SKIMMING AND | | |
| | | | 1.4 ACRE-FEET AGGREGATE | | |
| | | | WASHWATER SETTLING POND WITH | | |
| | | | OIL SKIMMING WITH A COMBINED | | |
| | | | DISCHARGE TO YARD DRAINAGE | | |
| | | | POND; SETTLING IMPOUNDMENT | | |
| | | | FOR AGGREGATE PILE SPRAY | | |
| | | | RUNOFF WHICH DISCHARGES TO | | |
| | | | YARD DRAINAGE POND. | | |
| | | | | | |
| | | | | | |
| 003 | DIFFUSER DISCHARGE WHICH | | MIXING BY SUBMERGED | 1 | O |
| | RECEIVES FLOW FROM THE | | MULTIPORT DIFFUSERS | | |
| | FOLLOWING: | | | | |
| | | | | | |

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EPA I.D. NUMBER (copy from Item 1 of Form 1): AL5640090002

Form Approved OMB No. 158-R0173

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. | |
| | | | | | | | |

## 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) | d. DESCRIPTION | h. LIST CODES FROM TABLE 2C-1 | |
| 003 Cont. | 1. ESSENTIAL RAW COOLING WATER SYSTEM TEST FLOWS. | 36,000,000 GPD | DECHLORINATION (WHEN NECESSARY). | 2 | E |
| | 2. RAW SERVICE WATER SYSTEM TEST FLOWS AND CONSTRUCTION PHASE MAKEUP DEMINERALIZER SPENT REGENERANT DISCHARGE. | 364,000 GPD | NEUTRALIZATION OF DEMINERALIZER WASTES, TWO 2.3 ACRE-FEET SUMP COLLECTION SETTLING PONDS WITH OIL SKIMMING. | 2<br>1 | K<br>U |
| | 3. COOLING TOWER BLOWDOWN (OUTFALL NUMBER 014) DURING PLANT OPERATION WHICH INCLUDES RECIRCULATED: | 65,304,000 GPD | DECHLORINATION (WHEN NECESSARY). | 2 | E |
| | A. MAKEUP DEMINERALIZER SPENT REGENERANTS (OUTFALL NUMBER 015). | 48,000 GPD | NEUTRALIZATION, PARTIAL EVAPORATION. | 2<br>1 | K<br>F |
| | B. OPERATIONAL SEWAGE TREATMENT PLANT EFFLUENT (OUTFALL NUMBER 012). | 36,000 GPD | THREE 12,000 GPD SEPTIC TANK SAND FILTER SEWAGE TREATMENT PLANTS IN PARALLEL WITH FLOW EQUALIZATION FOLLOWED BY PARTIAL EVAPORATION. | 1<br>1<br>3<br>1<br>1<br>5 | L<br>U<br>C<br>V<br>F<br>B |

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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 1. DEG. | 2. MIN. | 3. SEC. | C. LONGITUDE 1. DEG. | 2. MIN. | 3. SEC. | D. RECEIVING WATER (name) |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

## 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 a. OPERATION (list) | b. AVERAGE FLOW (include units) | 3. TREATMENT a. DESCRIPTION | b. LIST CODES FROM TABLE 2C-1 | |
|---|---|---|---|---|---|
| 003 Cont. | C. COOLING TOWER | UNKNOWN | GRIT ACCUMULATED IN THE | 1 | U |
| | DESILTING BASIN. | | COOLING TOWER WILL BE | 1 | F |
| | (OUTFALL NUMBER 016) | | PERIODICALLY FLUSHED TO A | 5 | Q |
| | | | SETTLING POND. SLUDGE REMOVED | | |
| | | | FROM THE POND AS NECESSARY | | |
| | | | FOR DISPOSAL IN AN APPROVED | | |
| | | | LANDFILL. | | |
| | 4. CONDENSATE DEMINERALIZER | 180,000 GPD | NEUTRALIZATION, DIATOMACEOUS | 2 | K |
| | SPENT REGENERANTS | | EARTH FILTRATION. | 1 | C |
| | (OUTFALL NUMBER 013). | | | | |
| | 5. SUMP COLLECTION PONDS | | SEDIMENTATION WITH OIL | 1 | U |
| | (OUTFALL NUMBER 007) | | SKIMMING. | | |
| | DISCHARGE WHICH RECEIVES | | | | |
| | FLOW FROM THE FOLLOWING: | | | | |
| | A. BUILDING SUMPS AND | 745,000 GPD | OIL SKIMMING ON PART OF | | |
| | DRAINS. | | DISCHARGE. | | |
| | B. ALUM SLUDGE SETTLING | 31,000 GPD | TWO 0.5 ACRE-FEET ALUM SLUDGE | 1 | U |
| | PONDS. | | SETTLING PONDS. SLUDGE WILL | 5 | Q |
| | | | BE DISPOSED OF IN AN APPROVED | | |
| | | | DISPOSAL SITE. | | |
| | C. AUXILIARY BOILER | | NONE | | |
| | BLOWDOWN | | | | |

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CONTINUE ON REVE

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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. | |
| | | | | | | | |

## 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 | |
| 003 Cont. | 6. LIQUID RADWASTE SYSTEM | 350,000 GPD | EVAPORATION, AND ION | 1 | F |
| | (OUTFALL NUMBER 011). | | EXCHANGE. SLUDGE IS | 2 | J |
| | | | DISPOSED OF AS LOW LEVEL | | |
| | | | RADIOACTIVE WASTE. | | |
| | | | | | |
| 004 | EAST CULVERT IMPOUNDMENT. | 217,000 GPD | EAST CULVERT IMPOUNDMENT | 1 | U |
| | | (BASED UPON | WITH CAPACITY OF 2.9 ACRE- | | |
| | | ANNUAL AVERAGE | FEET. | | |
| | | PRECIPITATION. | | | |
| | | | | | |
| 005 | INTAKE TRASH SLUICE WHICH | | | | |
| | RECEIVES FLOW FROM THE | | | | |
| | FOLLOWING: | | | | |
| | 1. INTAKE SCREEN AND | 664,000 GPD | NONE | | |
| | STRAINER BACKWASH. | | | | |
| | 2. BUILDING DRAINAGE. | 36,000 GPD | OIL SKIMMING ON PART OF THE | | |
| | | | DRAINAGE. | | |
| | | | | | |
| 017 | PLANT RAW WATER INTAKE | 100,000,000 GPD | THIS IS NOT A WASTEWATER | | |
| | | | OUTFALL. LISTED AS A SERIAL | | |
| | | | IDENTIFICATION NUMBER FOR | | |
| | | | MONITORING PURPOSES ONLY. | | |
| | | | WASTEWATER TREATMENT IS NOT | | |
| | | | REQUIRED. TREATMENT FOR | | |

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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*

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| A. OUTFALL NUMBER (list) | B. LATITUDE | | | C. LONGITUDE | | | D. RECEIVING WATER (name) |
|---|---|---|---|---|---|---|---|
| | 1. DEG. | 2. MIN. | 3. SEC. | 1. DEG. | 2. MIN. | 3. SEC. | |
| | | | | | | | |

## 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.

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| 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 |
| 017 Cont. | | | CONTROL OF AQUATIC ORGANISMS WITHIN THE CONDENSER CIRCULATING SYSTEM, ESSENTIAL RAW COOLING WATER SYSTEM, AND RAW SERVICE WATER SYSTEM USING CHLORINE MAY BE PRACTICED. | |
| | OUTFALL NUMBER 001A, 001B, 007, 009, 010, 011, 012, 013, 014, 015, ARE DESCRIBED ABOVE UNDER THE PRIMARY OUTFALL TO WHICH THEY CONTRIBUTE FLOW. | | | |

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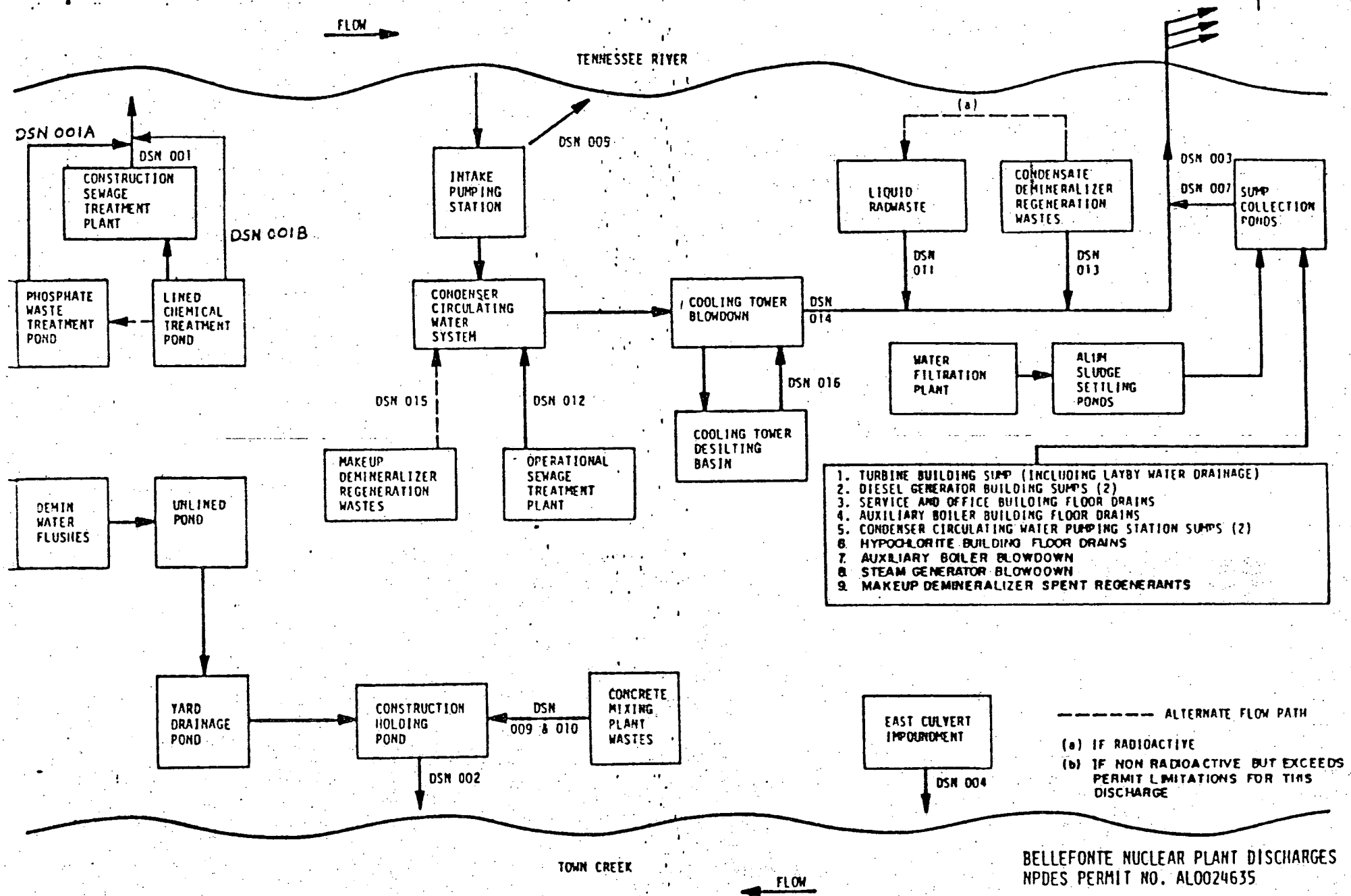


BELLEFONTE NUCLEAR PLANT DISCHARGES
NPDES PERMIT NO. AL0024635

CONTINUED FROM THE FRONT

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

[X] 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) |
|---|---|---|---|---|---|---|---|---|
| 001A | PHOSPHATE METAL CLEANING | -------- | SEE NOTE BELOW | ------ | | 10.0/yr. | .220 | |
| 001B | CHEMICAL METAL CLEANING | -------- | SEE NOTE BELOW | ------ | | 1.0/yr. | .015 | |

Note: NO CHEMICAL CLEANING ACTIVITIES ARE PLANNED UNTIL 1992. DUE TO THE UNPREDICTABILITY OF NRC REGULATORY REQUIREMENTS AND PLANT SCHEDULES, HOWEVER, THE OPTION TO CHEMICALLY CLEAN PLANT SYSTEMS MUST BE LEFT OPEN. IT IS NOT POSSIBLE TO ESTIMATE THE VOLUME AND FREQUENCY OF WASTEWATER DISCHARGE ASSOCIATED WITH FUTURE CLEANING ACTIVITIES. VALUES GIVEN ABOVE ARE BASED ON 1984-1986 DATA.

## III. MAXIMUM PRODUCTION

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

[X] YES (complete Item III-B) [ ] NO (go to Section IV)

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

[ ] YES (complete Item III-C) [X] NO (go to Section IV)

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

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

## IV. IMPROVEMENTS

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

[ ] YES (complete the following table) [X] NO (go to Item IV-B)

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

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



CONTINUE ON PAGE 3

CONTINUED FROM PAGE 2

EPA I.D. NUMBER (copy from Item I of Form 1)
AL564-0090002

Form Approved OMB No. 158 R0173

## V. INTAKE AND EFFLUENT CHARACTERISTICS

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

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

| 1. POLLUTANT | 2. SOURCE | 1. POLLUTANT | 2. SOURCE |
|---|---|---|---|
| NONE | | | |

## VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

A. Is any pollutant listed in Item V-C a substance or a component of a substance which you do or expect that you will over the next 5 years use or manufacture as an intermediate or final product or byproduct?

[ ] YES (list all such pollutants below) [X] NO (go to Item VI-B)

N/A

B. Are your operations such that your raw materials, processes, or products can reasonably be expected to vary so that your discharges of pollutants may during the next 5 years exceed two times the maximum values reported in Item V?

[ ] YES (complete Item VI-C below) [X] NO (go to Section VII)

C. If you answered "Yes" to Item VI-B, explain below and describe in detail the sources and expected levels of such pollutants which you anticipate will be discharged from each outfall over the next 5 years, to the best of your ability at this time. Continue on additional sheets if you need more space.

N/A



CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

## VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your 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)* [X] NO *(go to Section VIII)*

N/A

## VIII CONTRACT ANALYSIS INFORMATION

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

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

| A. NAME | B. ADDRESS | C. TELEPHONE (area code & no.) | D. POLLUTANTS ANALYZED (list) |
|---|---|---|---|
| N/A | | | |

## IX. CERTIFICATION

*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 individuals immediately responsible for obtaining the information, 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)
M. E. RIVERS
DIRECTOR ENVIRONMENTAL QUALITY

B. PHONE NO. (area code & no.)
615-632-6578

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)*: AL5640090002

*Form Approved OMB No. 158-R0173*

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 | (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 | 3. UNITS (specify if blank) a. CONCENTRATION | b. MASS | 4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD5) 1) | 19 | 4.8 | 11 | 3.0 | 3.8 | 1.0 | 24 | MG/L | LB/D | | | |
| b. Chemical Oxygen Demand (COD) 2) | 10 | 6.8 | | | | | 1 | MG/L | LB/D | | | |
| c. Total Organic Carbon (TOC) 2) | 4.0 | 2.7 | | | | | 1 | MG/L | LB/D | | | |
| d. Total Suspended Solids (TSS) 1) | 7.0 | 2.1 | 6.0 | 1.7 | <2.3 | <0.67 | 24 | MG/L | LB/D | | | |
| e. Ammonia (as N) 2) | 0.04 | 0.03 | | | | | 1 | MG/L | LB/D | | | |
| f. Flow 1) | VALUE 0.081 | | VALUE 0.050 | | VALUE 0.030 | | 365 | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | °C | | VALUE | | |
| h. Temperature (summer) 2) | VALUE 25.9 | | VALUE | | VALUE | | 1 | °C | | VALUE | | |
| i. pH 1) | MINIMUM 6.2 | MAXIMUM 7.7 | MINIMUM 6.7 | MAXIMUM 6.9 | | | 24 | 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 ma column 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additio details and requirements.

| 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. ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | | X | | | | | | | | | | | | |
| b. Chlorine, Total Residual | | X | | | | | | | | | | | | |
| c. Color | X | | 10.0 | | | | | | 1 | PCU | | | | |
| d. Fecal Coliform | X | | 240 | | | | | | 1 | COLONIES/100ML | | | | |
| e. Fluoride (16984-48-8) | | X | | | | | | | | | | | | |
| f. Nitrate-Nitrite (as N) | X | | 5.2 | 3.5 | | | | | 1 | MG/L | LB/D | | | |



CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

| 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 | | 0.67 | 0.45 | | | | | 1 | MG/L | LB/D | | | |
| h. Oil and Grease | X | | <5.0 | | | | | | 1 | MG/L | | | | |
| i. Phosphorus (as P), Total (7723 14 0) | X | | 1.4 | 1.0 | | | | | 1 | MG/L | LB/D | | | |
| j. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium, Total | | X | | | | | | | | | | | | |
| (4) Radium 226, Total | | X | | | | | | | | | | | | |
| k. Sulfate (as $SO_4$) (14808 79-8) | X | | 35.0 | 23.6 | | | | | 1 | MG/L | LB/D | | | |
| l. Sulfide (as S) | X | | <0.02 | | | | | | 1 | MG/L | | | | |
| m. Sulfite (as $SO_3$) (14265-45-3) | X | | <2.0 | | | | | | 1 | MG/L | | | | |
| n. Surfactants | X | | <0.1 | | | | | | 1 | MG/L | | | | |
| o. Aluminum, Total (7429 90-5) | | X | | | | | | | | | | | | |
| p. Barium, Total (7440 39-3) | | X | | | | | | | | | | | | |
| q. Boron, Total (7440 42 8) | | X | | | | | | | | | | | | |
| r. Cobalt, Total (7440 48-4) | | X | | | | | | | | | | | | |
| s. Iron, Total (7439 89 6) | | X | | | | | | | | | | | | |
| t. Magnesium, Total (7439 95-4) | | X | | | | | | | | | | | | |
| u. Molybdenum, Total (7439-98-7) | | X | | | | | | | | | | | | |
| v. Manganese, Total (7439 96 5) | | X | | | | | | | | | | | | |
| w. Tin, Total [illegible] | | X | | | | | | | | | | | | |

| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
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Form Approved OMB No. 158-R0173

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, non-process wastewater outfalls, and non-required 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 to be absent. If you mark either columns 2-a or 2-b for any pollutant, you must provide the results of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table *(all seven pages)* for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. TREAT. 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE, AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony, Total (7440-36-0) | | | X | | | | | | | | | | | | |
| 2M. Arsenic, Total (7440-38-2) | | | X | | | | | | | | | | | | |
| 3M. Beryllium, Total, 7440-41-7) | | | X | | | | | | | | | | | | |
| 4M. Cadmium, Total (7440 43 9) | | | X | | | | | | | | | | | | |
| 5M. Chromium, Total (7440-47-3) | | | X | | | | | | | | | | | | |
| 6M. Copper, Total (7550 50-8) | | | X | | | | | | | | | | | | |
| 7M. Lead, Total (7439-97-6) | | | X | | | | | | | | | | | | |
| 8M. Mercury, Total (7439 97-6) | | | X | | | | | | | | | | | | |
| 9M. Nickel, Total (7440-02-0) | | | X | | | | | | | | | | | | |
| 10M. Selenium, Total (7782-49-2) | | | X | | | | | | | | | | | | |
| 11M. Silver, Total (7440-22-4) | | | X | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | | | X | | | | | | | | | | | | |
| 13M. Zinc, Total (7440-66-6) | | | X | | | | | | | | | | | | |
| 14M. Cyanide, Total (57-12-5) | | | X | | | | | | | | | | | | |
| 15M. Phenols, Total | | X | | <2.0 | | | | | | 1 | µg/L | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetrachlorodibenzo P- | | | X | DESCRIBE RESULTS | | | | | | | | | | | |

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. TEST INCLUDED | 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 AVG. 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 | | | | | | | | | | | | |
| 2V. Acrylonitrile (107-13-1) | | | X | | | | | | | | | | | | |
| 3V. Benzene (71-43-2) | | | X | | | | | | | | | | | | |
| 4V. Bis (Chloromethyl) Ether (542 88-1) | | | X | | | | | | | | | | | | |
| 5V. Bromoform (75-25-2) | | | X | | | | | | | | | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | X | | | | | | | | | | | | |
| 7V. Chlorobenzene (108-90-7) | | | X | | | | | | | | | | | | |
| 8V. Chlorodibromomethane (124-48-1) | | | X | | | | | | | | | | | | |
| 9V. Chloroethane (75-00-3) | | | X | | | | | | | | | | | | |
| 10V. 2-Chloroethylvinyl Ether (110-75 8) | | | X | | | | | | | | | | | | |
| 11V. Chloroform (67-66-3) | | | X | | | | | | | | | | | | |
| 12V. Dichlorobromomethane (75-27-4) | | | X | | | | | | | | | | | | |
| 13V. Dichlorodifluoromethane (75-71-8) | | | X | | | | | | | | | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | X | | | | | | | | | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | X | | | | | | | | | | | | |
| 16V. 1,1-Dichloroethylene (75-35-4) | | | X | | | | | | | | | | | | |
| 17V. 1,2-Dichloropropane (78-87-5) | | | X | | | | | | | | | | | | |
| 18V. 1,2-Dichloropropylene (542-75-6) | | | X | | | | | | | | | | | | |
| 19V. Ethylbenzene (100-41-4) | | | X | | | | | | | | | | | | |
| 20V. Methyl Bromide (74-83-9) | | | X | | | | | | | | | | | | |
| 21V. Methyl Chloride (74 87-3) | | | X | | | | | | | | | | | | |



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EPA I.D. NUMBER (copy from Item 1 of Form 1): AL5640090002

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CONTINUED FROM PAGE V-4

| 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)** | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-09-2) | | | X | | | | | | | | | | | | |
| 23V. 1,1,2,2-Tetrachloroethane (79-34-5) | | | X | | | | | | | | | | | | |
| 24V. Tetrachloroethylene (127-18-4) | | | X | | | | | | | | | | | | |
| 25V. Toluene (108-88-3) | | | X | | | | | | | | | | | | |
| 26V. 1,2-Trans-Dichloroethylene (166-60-5) | | | X | | | | | | | | | | | | |
| 27V. 1,1,1-Trichloroethane (71-55-6) | | | X | | | | | | | | | | | | |
| 28V. 1,1,2-Trichloroethane (79-00-6) | | | X | | | | | | | | | | | | |
| 29V. Trichloroethylene (79-01-6) | | | X | | | | | | | | | | | | |
| 30V. Trichlorofluoromethane (75-69-4) | | | X | | | | | | | | | | | | |
| 31V. Vinyl Chloride (75-01-4) | | | X | | | | | | | | | | | | |
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | X | | | | | | | | | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | X | | | | | | | | | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | X | | | | | | | | | | | | |
| 4A. 4,6-Dinitro-O-Cresol (534-52-1) | | | X | | | | | | | | | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | X | | | | | | | | | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | X | | | | | | | | | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | X | | | | | | | | | | | | |
| 8A. P-Chloro-M-Cresol (59-50-7) | | | X | | | | | | | | | | | | |
| 9A. Pentachlorophenol (87-86-5) | | | X | | | | | | | | | | | | |
| 10A. Phenol (108-95-2) | | | X | | | | | | | | | | | | |

| NUM (if avail) | a. Test 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 | c. LONG TERM AVG. VALUE (if available) (1) Concentration | (2) Mass | d. NO. OF ANALYSES | 3. UNITS a. CONCENTRATION | b. MASS | 5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) Concentration | (2) Mass | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | X | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | X | | | | | | | | | | | | |
| 3B. Anthracene (120-12-7) | | | X | | | | | | | | | | | | |
| 4B. Benzidine (92-87-5) | | | X | | | | | | | | | | | | |
| 5B. Benzo *(a)* Anthracene (56-55-3) | | | X | | | | | | | | | | | | |
| 6B. Benzo *(a)* Pyrene (50-32-8) | | | X | | | | | | | | | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | | | X | | | | | | | | | | | | |
| 8B. Benzo *(ghi)* Perylene (191-24-2) | | | X | | | | | | | | | | | | |
| 9B. Benzo *(k)* Fluoranthene (207-08-9) | | | X | | | | | | | | | | | | |
| 10B. Bis *(2-Chloro-ethoxy)* Methane (111-91-1) | | | X | | | | | | | | | | | | |
| 11B. Bis *(2-Chloro-ethyl)* Ether (111-44-4) | | | X | | | | | | | | | | | | |
| 12B. Bis *(2-Chloro-isopropyl)* Ether (39638-32-9) | | | X | | | | | | | | | | | | |
| 13B. Bis *(2-Ethyl-hexyl)* Phthalate (117-81-7) | | | X | | | | | | | | | | | | |
| 14B. 4-Bromo-phenyl Phenyl Ether (101-55-3) | | | X | | | | | | | | | | | | |
| 15B. Butyl Benzyl Phthalate (85-68-7) | | | X | | | | | | | | | | | | |
| 16B. 2-Chloro-naphthalene (91-58-7) | | | X | | | | | | | | | | | | |
| 17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3) | | | X | | | | | | | | | | | | |
| 18B. Chrysene (218-01-9) | | | X | | | | | | | | | | | | |
| 19B. Dibenzo *(a,h)* Anthracene (53-70-3) | | | X | | | | | | | | | | | | |
| 20B. 1,2-Dichloro-benzene (95-50-1) | | | X | | | | | | | | | | | | |
| 21B. 1,3-Dichloro-benzene (541-73-1) | | | X | | | | | | | | | | | | |



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| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 001 |

Form Approved OMB No. 158-R0173

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. PRESENT IN EFFLUENT | b. PRESENT IN EFFLUENT | c. PRESENT IN 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 – BASE/NEUTRAL COMPOUNDS (continued) | | | | | | | | | | | | | | | |
| 22B. 1,4 Dichlorobenzene (106-46-7) | | | X | | | | | | | | | | | | |
| 23B. 3,3'-Dichlorobenzidine (91-94-1) | | | X | | | | | | | | | | | | |
| 24B. Diethyl Phthalate (84-66-2) | | | X | | | | | | | | | | | | |
| 25B. Dimethyl Phthalate (131-11-3) | | | X | | | | | | | | | | | | |
| 26B. Di-N-Butyl Phthalate (84-74-2) | | | X | | | | | | | | | | | | |
| 27B. 2,4 Dinitrotoluene (121-14-2) | | | X | | | | | | | | | | | | |
| 28B. 2,6 Dinitrotoluene (606-20-2) | | | X | | | | | | | | | | | | |
| 29B. Di-N-Octyl Phthalate (117-84-0) | | | X | | | | | | | | | | | | |
| 30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7) | | | X | | | | | | | | | | | | |
| 31B. Fluoranthene (206-44-0) | | | X | | | | | | | | | | | | |
| 32B. Fluorene (86-73-7) | | | X | | | | | | | | | | | | |
| 33B. Hexachlorobenzene (118-71-1) | | | X | | | | | | | | | | | | |
| 34B. Hexachlorobutadiene (87-68-3) | | | X | | | | | | | | | | | | |
| 35B. Hexachlorocyclopentadiene (77-47-4) | | | X | | | | | | | | | | | | |
| 36B. Hexachloroethane (67-72-1) | | | X | | | | | | | | | | | | |
| 37B. Indeno (1,2,3-cd) Pyrene (193-39-5) | | | X | | | | | | | | | | | | |
| 38B. Isophorone (78-59-1) | | | X | | | | | | | | | | | | |
| 39B. Naphthalene (91-20-3) | | | X | | | | | | | | | | | | |
| 40B. Nitrobenzene (98-95-3) | | | X | | | | | | | | | | | | |
| 41B. N-Nitrosodimethylamine (62-75-9) | | | X | | | | | | | | | | | | |
| 42B. [illegible] | | | | | | | | | | | | | | | |

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. TEST PRODUCED | 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 – BASE/NEUTRAL COMPOUNDS** *(continued)* | | | | | | | | | | | | | | | |
| 43B. N-Nitrosodiphenylamine (86-30-6) | | | X | | | | | | | | | | | | |
| 44B. Phenanthrene (85-01-8) | | | X | | | | | | | | | | | | |
| 45B. Pyrene (129-00-0) | | | X | | | | | | | | | | | | |
| 46B. 1,2,4-Trichlorobenzene (120-82-1) | | | X | | | | | | | | | | | | |
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (319-85-7) | | | X | | | | | | | | | | | | |
| 4P. γ-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | X | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | X | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P. Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |

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| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 001 |

Form Approved OMB No. 158-R0173

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK 'X' a. PRESENT IN EFFLUENT | b. PRESENT IN EFFLUENT | c. 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 – PESTICIDES (continued) | | | | | | | | | | | | | | | |
| 17P. Heptechlor 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. Toxephene (8001-35-2) | | | X | | | | | | | | | | | | |



FOOT NOTES:

1- DATA TAKEN FROM DMRs SUBMITTED TO ADEM FOR THE PERIOD AUGUST 1985 - JULY 1986.

2- DATA FROM ONE GRAB SAMPLE COLLECTED AUGUST 18, 1986.

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)*: AL5640090002

*Form Approved OMB No. 158-R0173*

OUTFALL NO: 001A

## 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 | (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 | 3. UNITS *(specify if blank)* a. CONCENTRATION | b. MASS | 4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) 3 | NO | DATA | | | | | | | | | | |
| b. Chemical Oxygen Demand (COD) 3 | NO | DATA | | | | | | | | | | |
| c. Total Organic Carbon (TOC) 3 | NO | DATA | | | | | | | | | | |
| d. Total Suspended Solids (TSS) 1 | 14 | | | | | | 1 | MG/L | | | | |
| e. Ammonia (as N) 3 | NO | DATA | | | | | | | | | | |
| f. Flow 1 | VALUE NO DATA | | VALUE | | VALUE | | | | | VALUE | | |
| g. Temperature (winter) 3 | VALUE NO DATA | | VALUE | | VALUE | | | °C | | VALUE | | |
| h. Temperature (summer) 3 | VALUE NO DATA | | VALUE | | VALUE | | | °C | | VALUE | | |
| i. pH 1 | MINIMUM | MAXIMUM 9.3 | MINIMUM | MAXIMUM | | | 1 | 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 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. 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 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | | X | | | | | | | | | | | | |
| b. Chlorine, Total Residual | | X | | | | | | | | | | | | |
| c. Color | | X | | | | | | | | | | | | |
| d. Fecal Coliform | | X | | | | | | | | | | | | |
| e. Fluoride (16984-48-8) | | X | | | | | | | | | | | | |
| f. Nitrate-Nitrite (as N) | | X | | | | | | | | | | | | |

ITEM V-B CONTINUED FROM FRONT

| 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 | | | | | | | | | | | | |
| h. Oil and Grease 2) | X | | <5.0 | | | | | | 2 | MG/L | | | | |
| i. Phosphorus (as P), Total (7723 14 0) 2) | X | | 14.5 | | | | | | 2 | MG/L | | | | |
| j. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium, Total | | X | | | | | | | | | | | | |
| (4) Radium 226, Total | | X | | | | | | | | | | | | |
| k. Sulfate (as $SO_4$) (14808 79-8) | | X | | | | | | | | | | | | |
| l. Sulfide (as S) | | X | | | | | | | | | | | | |
| m. Sulfite (as $SO_3$) (14265-45-3) | | X | | | | | | | | | | | | |
| n. Surfactants | | X | | | | | | | | | | | | |
| o. Aluminum, Total (7429 90-5) | | X | | | | | | | | | | | | |
| p. Barium, Total (7440 39-3) | | X | | | | | | | | | | | | |
| q. Boron, Total (7440 42 8) | | X | | | | | | | | | | | | |
| r. Cobalt, Total (7440 40-4) | | X | | | | | | | | | | | | |
| s. Iron, Total (7439 89 6) 2) | X | | 2.4 | | | | | | 2 | MG/L | | | | |
| t. Magnesium, Total (7439 95-4) | | X | | | | | | | | | | | | |
| u. Molybdenum, Total (7439-98-7) | | X | | | | | | | | | | | | |
| v. Manganese, Total (7439 96 5) 1) | X | | 0.13 | | | | | | 1 | MG/L | | | | |
| w. Tin, Total (7440 31-5) | | X | | | | | | | | | | | | |

| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 001A |

Form Approved OMB No. 158-R0173

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, non-process wastewater outfalls, and non-required 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 to be absent. If you mark either columns 2-a or 2-b for any pollutant, you must provide the results of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table *(all seven 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. TEST INCLUDED | 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 | c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION | (2) MASS | d. NO. OF ANALYSES | e. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
| **METALS, CYANIDE, AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony, Total (7440-36-0) | | | X | | | | | | | | | | | | |
| 2M. Arsenic, Total (7440-38-2) 1 | | X | | 1.0 | | | | | | 1 | µg/L | | | | |
| 3M. Beryllium, Total (7440-41-7) | | | X | | | | | | | | | | | | |
| 4M. Cadmium, Total (7440-43-9) 1 | | X | | 0.1 | | | | | | 1 | µg/L | | | | |
| 5M. Chromium, Total (7440-47-3) 1 | | X | | 1.0 | | | | | | 1 | µg/L | | | | |
| 6M. Copper, Total (7550-50-8) 2 | | X | | <0.01 | | | | | | 2 | MG/L | | | | |
| 7M. Lead, Total (7439-97-6) 1 | | X | | 2.0 | | | | | | 1 | µg/L | | | | |
| 8M. Mercury, Total (7439-97-6) 1 | | X | | 0.2 | | | | | | 1 | µg/L | | | | |
| 9M. Nickel, Total (7440-02-0) 1 | | X | | 22 | | | | | | 1 | µg/L | | | | |
| 10M. Selenium, Total (7782-49-2) 1 | | X | | 5.0 | | | | | | 1 | µg/L | | | | |
| 11M. Silver, Total (7440-22-4) | | | X | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | | | X | | | | | | | | | | | | |
| 13M. Zinc, Total (7440-66-6) 1 | | X | | 20 | | | | | | 1 | µg/L | | | | |
| 14M. Cyanide, Total (57-12-5) | | | X | | | | | | | | | | | | |
| 15M. Phenols, Total | | | X | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetrachlorodibenzo P-dioxin (1746-01-6) | | | 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 | (2) MASS | b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION | (2) MASS | c. LONG TERM AVG. 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 | | | | | | | | | | | | |
| 2V. Acrylonitrile (107-13-1) | | | X | | | | | | | | | | | | |
| 3V. Benzene (71-43-2) | | | X | | | | | | | | | | | | |
| 4V. Bis (Chloromethyl) Ether (542-88-1) | | | X | | | | | | | | | | | | |
| 5V. Bromoform (75-25-2) | | | X | | | | | | | | | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | X | | | | | | | | | | | | |
| 7V. Chlorobenzene (108-90-7) | | | X | | | | | | | | | | | | |
| 8V. Chlorodibromomethane (124-48-1) | | | X | | | | | | | | | | | | |
| 9V. Chloroethane (75-00-3) | | | X | | | | | | | | | | | | |
| 10V. 2-Chloroethylvinyl Ether (110-75-8) | | | X | | | | | | | | | | | | |
| 11V. Chloroform (67-66-3) | | | X | | | | | | | | | | | | |
| 12V. Dichlorobromomethane (75-27-4) | | | X | | | | | | | | | | | | |
| 13V. Dichlorodifluoromethane (75-71-8) | | | X | | | | | | | | | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | X | | | | | | | | | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | X | | | | | | | | | | | | |
| 16V. 1,1-Dichloroethylene (75-35-4) | | | X | | | | | | | | | | | | |
| 17V. 1,2-Dichloropropane (78-87-5) | | | X | | | | | | | | | | | | |
| 18V. 1,2-Dichloropropylene (542-75-6) | | | X | | | | | | | | | | | | |
| 19V. Ethylbenzene (100-41-4) | | | X | | | | | | | | | | | | |
| 20V. Methyl Bromide (74-83-9) | | | X | | | | | | | | | | | | |
| 21V. Methyl Chloride (74-87-3) | | | X | | | | | | | | | | | | |



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EPA I.D. NUMBER (copy from Item I of Form 1): AL5640090002

OUTFALL NUMBER: 001A

Form Approved OMB No. 158-R0173

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK 'X' a. TREATMENT REQUIREMENT | b. EFFLUENT PRESENT | c. EFFLUENT 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)* | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-09-2) | | | X | | | | | | | | | | | | |
| 23V. 1,1,2,2-Tetrachloroethane (79-34-5) | | | X | | | | | | | | | | | | |
| 24V. Tetrachloroethylene (127-18-4) | | | X | | | | | | | | | | | | |
| 25V. Toluene (108-88-3) | | | X | | | | | | | | | | | | |
| 26V. 1,2-Trans-Dichloroethylene (156-60-5) | | | X | | | | | | | | | | | | |
| 27V. 1,1,1-Trichloroethane (71-55-6) | | | X | | | | | | | | | | | | |
| 28V. 1,1,2-Trichloroethane (79-00-5) | | | X | | | | | | | | | | | | |
| 29V. Trichloroethylene (79-01-6) | | | X | | | | | | | | | | | | |
| 30V. Trichlorofluoromethane (75-69-4) | | | X | | | | | | | | | | | | |
| 31V. Vinyl Chloride (75-01-4) | | | X | | | | | | | | | | | | |
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | X | | | | | | | | | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | X | | | | | | | | | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | X | | | | | | | | | | | | |
| 4A. 4,6-Dinitro-O-Cresol (534-52-1) | | | X | | | | | | | | | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | X | | | | | | | | | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | X | | | | | | | | | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | X | | | | | | | | | | | | |
| 8A. P-Chloro-M-Cresol (59-50-7) | | | X | | | | | | | | | | | | |
| 9A. Pentachlorophenol (87-86-5) | | | X | | | | | | | | | | | | |
| 10A. Phenol (108-95-2) | | | X | | | | | | | | | | | | |

| NUMBER (if available) | a. TESTING REQUIRED | b. REQUIRED BY PERMIT | c. BELIEVED PRESENT | 3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION | (2) MASS | b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION | (2) MASS | c. LONG TERM AVG. 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 – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | X | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | X | | | | | | | | | | | | |
| 3B. Anthracene (120-12-7) | | | X | | | | | | | | | | | | |
| 4B. Benzidine (92-87-5) | | | X | | | | | | | | | | | | |
| 5B. Benzo *(a)* Anthracene (56-55-3) | | | X | | | | | | | | | | | | |
| 6B. Benzo *(a)* Pyrene (50-32-8) | | | X | | | | | | | | | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | | | X | | | | | | | | | | | | |
| 8B. Benzo *(ghi)* Perylene (191-24-2) | | | X | | | | | | | | | | | | |
| 9B. Benzo *(k)* Fluoranthene (207-08-9) | | | X | | | | | | | | | | | | |
| 10B. Bis *(2-Chloro-ethoxy)* Methane (111-91-1) | | | X | | | | | | | | | | | | |
| 11B. Bis *(2-Chloro-ethyl)* Ether (111-44-4) | | | X | | | | | | | | | | | | |
| 12B. Bis *(2-Chloro-isopropyl)* Ether (39638-32-9) | | | X | | | | | | | | | | | | |
| 13B. Bis *(2-Ethyl-hexyl)* Phthalate (117-81-7) | | | X | | | | | | | | | | | | |
| 14B. 4-Bromo-phenyl Phenyl Ether (101-55-3) | | | X | | | | | | | | | | | | |
| 15B. Butyl Benzyl Phthalate (85-68-7) | | | X | | | | | | | | | | | | |
| 16B. 2-Chloro-naphthalene (91-58-7) | | | X | | | | | | | | | | | | |
| 17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3) | | | X | | | | | | | | | | | | |
| 18B. Chrysene (218-01-9) | | | X | | | | | | | | | | | | |
| 19B. Dibenzo *(a,h)* Anthracene (53-70-3) | | | X | | | | | | | | | | | | |
| 20B. 1,2-Dichloro-benzene (95-50-1) | | | X | | | | | | | | | | | | |
| 21B. 1,3-Dichloro-benzene (541-73-1) | | | X | | | | | | | | | | | | |

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| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 001A |

Form Approved OMB No. 158-R0173

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK 'X' a. PRESENT | b. ABSENT | 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 – BASE/NEUTRAL COMPOUNDS (continued) | | | | | | | | | | | | | | | |
| 22B. 1,4 Dichlorobenzene (106-46-7) | | | X | | | | | | | | | | | | |
| 23B. 3,3'-Dichlorobenzidine (91-94-1) | | | X | | | | | | | | | | | | |
| 24B. Diethyl Phthalate (84-66-2) | | | X | | | | | | | | | | | | |
| 25B. Dimethyl Phthalate (131-11-3) | | | X | | | | | | | | | | | | |
| 26B. Di-N-Butyl Phthalate (84-74-2) | | | X | | | | | | | | | | | | |
| 27B. 2,4-Dinitrotoluene (121-14-2) | | | X | | | | | | | | | | | | |
| 28B. 2,6-Dinitrotoluene (606-20-2) | | | X | | | | | | | | | | | | |
| 29B. Di-N-Octyl Phthalate (117-84-0) | | | X | | | | | | | | | | | | |
| 30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7) | | | X | | | | | | | | | | | | |
| 31B. Fluoranthene (206-44-0) | | | X | | | | | | | | | | | | |
| 32B. Fluorene (86-73-7) | | | X | | | | | | | | | | | | |
| 33B. Hexachlorobenzene (118-71-1) | | | X | | | | | | | | | | | | |
| 34B. Hexachlorobutadiene (87-68-3) | | | X | | | | | | | | | | | | |
| 35B. Hexachlorocyclopentadiene (77-47-4) | | | X | | | | | | | | | | | | |
| 36B. Hexachloroethane (67-72-1) | | | X | | | | | | | | | | | | |
| 37B. Indeno (1,2,3-cd) Pyrene (193-39-5) | | | X | | | | | | | | | | | | |
| 38B. Isophorone (78-59-1) | | | X | | | | | | | | | | | | |
| 39B. Naphthalene (91-20-3) | | | X | | | | | | | | | | | | |
| 40B. Nitrobenzene (98-95-3) | | | X | | | | | | | | | | | | |
| 41B. N-Nitrosodimethylamine (62-75-9) | | | X | | | | | | | | | | | | |

| 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 – BASE/NEUTRAL COMPOUNDS** *(continued)* | | | | | | | | | | | | | | | |
| 43B. N-Nitrosodiphenylamine (86-30-6) | | | X | | | | | | | | | | | | |
| 44B. Phenanthrene (85-01-8) | | | X | | | | | | | | | | | | |
| 45B. Pyrene (129-00-0) | | | X | | | | | | | | | | | | |
| 46B. 1,2,4-Trichlorobenzene (120-82-1) | | | X | | | | | | | | | | | | |
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (319-85-7) | | | X | | | | | | | | | | | | |
| 4P. γ-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | X | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | X | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P. Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |

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| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 001A |

Form Approved OMB No. 158-R0173

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. TEST INCLUDED | 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 — 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 | | | | | | | | | | | | |



FOOT NOTES:

1- DATA FROM ANALYSES OF UNTREATED TRISODIUM PHOSPHATE FLUSHING WASTE PRIOR TO ENTERING POND SUBMITTED TO ADEM IN APRIL 1983 ENGINEERING REPORT REQUESTING APPROVAL FOR ONSITE DISPOSAL VIA LAND APPLICATION. APPROVAL GRANTED MARCH 22, 1984. TO DATE THERE HAS BEEN NO DISCHARGE THROUGH DSN 001A. HOWEVER TVA WISHES TO RETAIN THIS TREATMENT AND DISCHARGE OPTION.

2- DATA IS AVERAGE OF MARCH 10 AND APRIL 22, 1986, ANALYSES OF THE MOST RECENT UNTREATED TRI-SODIUM PHOSPHATE METAL CLEANING WASTE HELD IN THE SMALL UNLINED AND LARGE UNLINED PHOSPHATE STORAGE PONDS FOR DISPOSAL VIA LAND APPLICATION.

3- ACCUMULATED PHOSPHATE METAL CLEANING WASTE HAS BEEN DISPOSED OF VIA LAND APPLICATION. THEREFORE SAMPLES FOR THESE ANALYSES COULD NOT BE COLLECTED.

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)*: AL5640090002

*Form Approved OMB No. 158-R0173*

OUTFALL NO. 0013

## 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 | (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 | 3. UNITS (specify if blank) a. CONCENTRATION | b. MASS | 4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) 1) | 59 | 8.9 | | | | | 1 | MG/L | LB/D | | | |
| b. Chemical Oxygen Demand (COD) 1) | 89 | 13.4 | | | | | 1 | MG/L | LB/D | | | |
| c. Total Organic Carbon (TOC) 2) | NO | DATA | | | | | | | | | | |
| d. Total Suspended Solids (TSS) 1) | 2.0 | 0.3 | | | | | 1 | MG/L | LB/D | | | |
| e. Ammonia (as N) 2) | NO | DATA | | | | | | | | | | |
| f. Flow 3) | VALUE 0.018 | | VALUE 0.016 | | VALUE 0.014 | | 61 | MGD | | VALUE | | |
| g. Temperature (winter) 2) | VALUE AMBIENT | | VALUE | | VALUE | | | °C | | VALUE | | |
| h. Temperature (summer) 2) | VALUE AMBIENT | | VALUE | | VALUE | | | °C | | VALUE | | |
| i. pH 3) | MINIMUM 6.7 | MAXIMUM 7.9 | MINIMUM 7.4 | MAXIMUM 7.9 | | | 61 | 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 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. 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 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | | X | | | | | | | | | | | | |
| b. Chlorine, Total Residual | | X | | | | | | | | | | | | |
| c. Color | | X | | | | | | | | | | | | |
| d. Fecal Coliform | | X | | | | | | | | | | | | |
| e. Fluoride (16984-48-8) | | X | | | | | | | | | | | | |
| f. Nitrate-Nitrite (as N) | | X | | | | | | | | | | | | |



CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK 'X' a. PRESENT | 2. MARK 'X' b. ABSENT | 3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION | a. (2) MASS | b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION | b. (2) MASS | c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION | c. (2) MASS | d. NO. OF ANALYSES | 4. UNITS a. CONCENTRATION | 4. UNITS b. MASS | 5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | a. (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| g. Nitrogen, Total Organic (as N) | | X | | | | | | | | | | | | |
| h. Oil and Grease 3) | X | | 7.0 | 0.876 | <5.0 | <0.695 | <5.0 | <0.606 | 61 | MG/L | LB/D | | | |
| i. Phosphorus (as P), Total (7723 14 0) | | X | | | | | | | | | | | | |
| j. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium, Total | | X | | | | | | | | | | | | |
| (4) Radium 226, Total | | X | | | | | | | | | | | | |
| k. Sulfate (as $SO_4$) (14808 79-8) | | X | | | | | | | | | | | | |
| l. Sulfide (as S) | | X | | | | | | | | | | | | |
| m. Sulfite (as $SO_3$) (14265-45-3) | | X | | | | | | | | | | | | |
| n. Surfactants | | X | | | | | | | | | | | | |
| o. Aluminum, Total (7429 90-5) | | X | | | | | | | | | | | | |
| p. Barium, Total (7440 39-3) | | X | | | | | | | | | | | | |
| q. Boron, Total (7440 42 8) | | X | | | | | | | | | | | | |
| r. Cobalt, Total (7440 48-4) | | X | | | | | | | | | | | | |
| s. Iron, Total (7439 89 6) 3) | X | | 1.04 | 0.13 | 0.29 | 0.039 | 0.16 | <0.019 | 61 | MG/L | LB/D | | | |
| t. Magnesium, Total (7439 95-4) | | X | | | | | | | | | | | | |
| u. Molybdenum, Total (7439-98-7) | | X | | | | | | | | | | | | |
| v. Manganese, Total (7439 96 5) | | X | | | | | | | | | | | | |
| w. Tin, Total (7440 31 5) | | X | | | | | | | | | | | | |

| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 001 3 |

CONTINUED FROM PAGE 3 OF FORM 2-C

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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, non-process wastewater outfalls, and non-required 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 to be absent. If you mark either columns 2-a or 2-b for any pollutant, you must provide the results of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table *(all seven pages)* for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (if available) | | c. LONG TERM AVRG. VALUE (if available) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| **METALS, CYANIDE, AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony, Total (7440-36-0) | | | X | | | | | | | | | | | | |
| 2M. Arsenic, Total (7440-38-2) | | | X | | | | | | | | | | | | |
| 3M. Beryllium, Total, 7440-41-7) | | | X | | | | | | | | | | | | |
| 4M. Cadmium, Total (7440-43-9) | | | X | | | | | | | | | | | | |
| 5M. Chromium, Total (7440-47-3) | | | X | | | | | | | | | | | | |
| 6M. Copper, Total (7550-50-8) 3j | | X | | 0.02 | 0.0028 | <0.01 | <0.0014 | <0.01 | <0.0012 | 61 | MG/L | LB/D | | | |
| 7M. Lead, Total (7439-97-6) | | | X | | | | | | | | | | | | |
| 8M. Mercury, Total (7439-97-6) | | | X | | | | | | | | | | | | |
| 9M. Nickel, Total (7440-02-0) | | | X | | | | | | | | | | | | |
| 10M. Selenium, Total (7782-49-2) | | | X | | | | | | | | | | | | |
| 11M. Silver, Total (7440-22-4) | | | X | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | | | X | | | | | | | | | | | | |
| 13M. Zinc, Total (7440-66-6) | | | X | | | | | | | | | | | | |
| 14M. Cyanide, Total (57-12-5) | | | X | | | | | | | | | | | | |
| 15M. Phenols, Total | | | X | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin (1746-01-6) | | | X | DESCRIBE RESULTS | | | | | | | | | | | |

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. TESTED | 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 AVG. 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 | | | | | | | | | | | | |
| 2V. Acrylonitrile (107-13-1) | | | X | | | | | | | | | | | | |
| 3V. Benzene (71-43-2) | | | X | | | | | | | | | | | | |
| 4V. Bis (Chloromethyl) Ether (542-88-1) | | | X | | | | | | | | | | | | |
| 5V. Bromoform (75-25-2) | | | X | | | | | | | | | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | X | | | | | | | | | | | | |
| 7V. Chlorobenzene (108-90-7) | | | X | | | | | | | | | | | | |
| 8V. Chlorodibromomethane (124-48-1) | | | X | | | | | | | | | | | | |
| 9V. Chloroethane (75-00-3) | | | X | | | | | | | | | | | | |
| 10V. 2-Chloroethylvinyl Ether (110-75-8) | | | X | | | | | | | | | | | | |
| 11V. Chloroform (67-66-3) | | | X | | | | | | | | | | | | |
| 12V. Dichlorobromomethane (75-27-4) | | | X | | | | | | | | | | | | |
| 13V. Dichlorodifluoromethane (75-71-8) | | | X | | | | | | | | | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | X | | | | | | | | | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | X | | | | | | | | | | | | |
| 16V. 1,1-Dichloroethylene (75-35-4) | | | X | | | | | | | | | | | | |
| 17V. 1,2-Dichloropropane (78-87-5) | | | X | | | | | | | | | | | | |
| 18V. 1,2-Dichloropropylene (542-75-6) | | | X | | | | | | | | | | | | |
| 19V. Ethylbenzene (100-41-4) | | | X | | | | | | | | | | | | |
| 20V. Methyl Bromide (74-83-9) | | | X | | | | | | | | | | | | |
| 21V. Methyl Chloride (74-87-3) | | | X | | | | | | | | | | | | |



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| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 0013 |

Form Approved OMB No. 158-R0173

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. TREATMENT 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)* | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-09-2) | | | X | | | | | | | | | | | | |
| 23V. 1,1,2,2-Tetrachloroethane (79-34-5) | | | X | | | | | | | | | | | | |
| 24V. Tetrachloroethylene (127-18-4) | | | X | | | | | | | | | | | | |
| 25V. Toluene (108-88-3) | | | X | | | | | | | | | | | | |
| 26V. 1,2-Trans-Dichloroethylene (156-60-5) | | | X | | | | | | | | | | | | |
| 27V. 1,1,1-Trichloroethane (71-55-6) | | | X | | | | | | | | | | | | |
| 28V. 1,1,2-Trichloroethane (79-00-5) | | | X | | | | | | | | | | | | |
| 29V. Trichloroethylene (79-01-6) | | | X | | | | | | | | | | | | |
| 30V. Trichlorofluoromethane (75-69-4) | | | X | | | | | | | | | | | | |
| 31V. Vinyl Chloride (75-01-4) | | | X | | | | | | | | | | | | |
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | X | | | | | | | | | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | X | | | | | | | | | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | X | | | | | | | | | | | | |
| 4A. 4,6-Dinitro-O-Cresol (534-52-1) | | | X | | | | | | | | | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | X | | | | | | | | | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | X | | | | | | | | | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | X | | | | | | | | | | | | |
| 8A. P-Chloro-M-Cresol (59-50-7) | | | X | | | | | | | | | | | | |
| 9A. Pentachlorophenol (87-86-5) | | | X | | | | | | | | | | | | |
| 10A. Phenol (108-95-2) | | | X | | | | | | | | | | | | |

| NUMBER (if available) | 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 AVG. VALUE (if available) (1) Concentration | c. LONG TERM AVG. 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 | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | X | | | | | | | | | | | | |
| 3B. Anthracene (120-12-7) | | | X | | | | | | | | | | | | |
| 4B. Benzidine (92-87-5) | | | X | | | | | | | | | | | | |
| 5B. Benzo *(a)* Anthracene (56-55-3) | | | X | | | | | | | | | | | | |
| 6B. Benzo *(a)* Pyrene (50-32-8) | | | X | | | | | | | | | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | | | X | | | | | | | | | | | | |
| 8B. Benzo *(ghi)* Perylene (191-24-2) | | | X | | | | | | | | | | | | |
| 9B. Benzo *(k)* Fluoranthene (207-08-9) | | | X | | | | | | | | | | | | |
| 10B. Bis *(2-Chloro-ethoxy)* Methane (111-91-1) | | | X | | | | | | | | | | | | |
| 11B. Bis *(2-Chloro-ethyl)* Ether (111-44-4) | | | X | | | | | | | | | | | | |
| 12B. Bis *(2-Chloro-isopropyl)* Ether (39638-32-9) | | | X | | | | | | | | | | | | |
| 13B. Bis *(2-Ethyl-hexyl)* Phthalate (117-81-7) | | | X | | | | | | | | | | | | |
| 14B. 4-Bromo-phenyl Phenyl Ether (101-55-3) | | | X | | | | | | | | | | | | |
| 15B. Butyl Benzyl Phthalate (85-68-7) | | | X | | | | | | | | | | | | |
| 16B. 2-Chloro-naphthalene (91-58-7) | | | X | | | | | | | | | | | | |
| 17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3) | | | X | | | | | | | | | | | | |
| 18B. Chrysene (218-01-9) | | | X | | | | | | | | | | | | |
| 19B. Dibenzo *(a,h)* Anthracene (53-70-3) | | | X | | | | | | | | | | | | |
| 20B. 1,2-Dichloro-benzene (95-50-1) | | | X | | | | | | | | | | | | |
| 21B. 1,3-Dichloro-benzene (541-73-1) | | | X | | | | | | | | | | | | |

EPA Form 3510-2C (8-80)



CONTINUE ON PAGE V-7

CONTINUED FROM PAGE V-6

| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640009002 | 001B |

Form Approved OMB No. 158-R0173

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. Believed Present | b. Believed Absent | c. Believed Present | 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 – BASE/NEUTRAL COMPOUNDS (continued) | | | | | | | | | | | | | | | |
| 22B. 1,4 Dichlorobenzene (106-46-7) | | | X | | | | | | | | | | | | |
| 23B. 3,3'-Dichlorobenzidine (91-94-1) | | | X | | | | | | | | | | | | |
| 24B. Diethyl Phthalate (84-66-2) | | | X | | | | | | | | | | | | |
| 25B. Dimethyl Phthalate (131-11-3) | | | X | | | | | | | | | | | | |
| 26B. Di-N-Butyl Phthalate (84-74-2) | | | X | | | | | | | | | | | | |
| 27B. 2,4 Dinitrotoluene (121-14-2) | | | X | | | | | | | | | | | | |
| 28B. 2,6 Dinitrotoluene (606-20-2) | | | X | | | | | | | | | | | | |
| 29B. Di-N-Octyl Phthalate (117-84-0) | | | X | | | | | | | | | | | | |
| 30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7) | | | X | | | | | | | | | | | | |
| 31B. Fluoranthene (206-44-0) | | | X | | | | | | | | | | | | |
| 32B. Fluorene (86-73-7) | | | X | | | | | | | | | | | | |
| 33B. Hexachlorobenzene (118-71-1) | | | X | | | | | | | | | | | | |
| 34B. Hexachlorobutadiene (87-68-3) | | | X | | | | | | | | | | | | |
| 35B. Hexachlorocyclopentadiene (77-47-4) | | | X | | | | | | | | | | | | |
| 36B. Hexachloroethane (67-72-1) | | | X | | | | | | | | | | | | |
| 37B. Indeno (1,2,3-cd) Pyrene (193-39-5) | | | X | | | | | | | | | | | | |
| 38B. Isophorone (78-59-1) | | | X | | | | | | | | | | | | |
| 39B. Naphthalene (91-20-3) | | | X | | | | | | | | | | | | |
| 40B. Nitrobenzene (98-95-3) | | | X | | | | | | | | | | | | |
| 41B. N-Nitrosodimethylamine (62-75-9) | | | X | | | | | | | | | | | | |
| 42B. [illegible] | | | X | | | | | | | | | | | | |

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. TEST INCLUDED | 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 – BASE/NEUTRAL COMPOUNDS (continued)** | | | | | | | | | | | | | | | |
| 43B. N-Nitrosodiphenylamine (86-30-6) | | | X | | | | | | | | | | | | |
| 44B. Phenanthrene (85-01-8) | | | X | | | | | | | | | | | | |
| 45B. Pyrene (129-00-0) | | | X | | | | | | | | | | | | |
| 46B. 1,2,4-Trichlorobenzene (120-82-1) | | | X | | | | | | | | | | | | |
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (319-85-7) | | | X | | | | | | | | | | | | |
| 4P. γ-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | X | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | X | | | | | | | | | | | | |
| 16P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P. Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |

EPA Form 3510-2C (6-80)



CONTINUE ON PAGE V-9

CONTINUED FROM PAGE V-8

| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 001B |

Form Approved OMB No. 158-R0173

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. Test Inc. Not Required | b. Base/Qualifier Not Required | c. Analyzed Not Required | 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 — 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 | | | | | | | | | | | | |



FOOTNOTES:

1- DATA FROM MARCH 13, 1985, GRAB SAMPLING OF THE MOST RECENT BATCH OF CHEMICAL METAL CLEANING WASTE TREATED/DISCHARGED VIA THE CONSTRUCTION S.T.P.

2- ALL CHEMICAL METAL CLEANING WASTE ACCUMULATED TO DATE HAS BEEN TREATED/DISCHARED. THERE-SAMPLES FOR THESE ANALYSES COULD NOT BE COLLECTED.

3- DATA TAKEN FROM DMRS SUBMITTED TO ADEM FOR THIS DISCHARGE FOR THE PERIOD AUGUST 1985 - JULY 1986.

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)*: AL5640090002

*Form Approved OMB No. 158-R0173*

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

OUTFALL NO. 002

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) 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 | 3. UNITS (specify if blank) a. CONCENTRATION | b. MASS | 4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD5) 1 | 3.4 | 156 | | | | | 1 | MG/L | LB/D | | | |
| b. Chemical Oxygen Demand (COD) 1 | 20 | 917 | | | | | 1 | MG/L | LB/D | | | |
| c. Total Organic Carbon (TOC) 1 | 8.0 | 367 | | | | | 1 | MG/L | LB/D | | | |
| d. Total Suspended Solids (TSS) 2 | 110 | 3029 | 60 | 1358 | 25 | 414 | 40 | MG/L | LB/D | | | |
| e. Ammonia (as N) 1 | <0.01 | | | | | | 1 | MG/L | | | | |
| f. Flow 2 | VALUE 5.5 | | VALUE 1.81 | | VALUE 1.1 | | 40 | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | °C | | VALUE | | |
| h. Temperature (summer) 1 | VALUE 28.9 | | VALUE | | VALUE | | 1 | °C | | VALUE | | |
| i. pH 2 | MINIMUM 7.2 | MAXIMUM 8.3 | MINIMUM 7.5 | MAXIMUM 7.9 | | | 40 | 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 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. 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 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959 67-9) | | X | | | | | | | | | | | | |
| b. Chlorine, Total Residual | | X | | | | | | | | | | | | |
| c. Color | X | | 20 | | | | | | 1 | PCU | | | | |
| d. Fecal Coliform | | X | | | | | | | | | | | | |
| e. Fluoride (16984 48 8) | | X | | | | | | | | | | | | |
| f. Nitrate-Nitrite (as N) | X | | <0.01 | | | | | | 1 | MG/L | | | | |



CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

| 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 (2) MASS | c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION | c. LONG TERM AVRG. VALUE (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 | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| g. Nitrogen, Total Organic (as N) | X | | 0.59 | 27.1 | | | | | 1 | MG/L | LB/D | | | |
| h. Oil and Grease | X | | <5.0 | | | | | | 1 | MG/L | | | | |
| i. Phosphorus (as P), Total (7723 14 0) | X | | 0.1 | 4.6 | | | | | 1 | MG/L | LB/D | | | |
| j. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium, Total | | X | | | | | | | | | | | | |
| (4) Radium 226, Total | | X | | | | | | | | | | | | |
| k. Sulfate (as $SO_4$) (14808 79-8) | X | | 43 | 1972 | | | | | 1 | MG/L | LB/D | | | |
| l. Sulfide (as S) | | X | | | | | | | | | | | | |
| m. Sulfite (as $SO_3$) (14265-45-3) | | X | | | | | | | | | | | | |
| n. Surfactants | X | | <0.1 | | | | | | 1 | MG/L | | | | |
| o. Aluminum, Total (7429 90-5) | X | | 0.27 | 12.4 | | | | | 1 | MG/L | LB/D | | | |
| p. Barium, Total (7440 39-3) | X | | <0.01 | | | | | | 1 | MG/L | | | | |
| q. Boron, Total (7440 42 8) | X | | <0.05 | | | | | | 1 | MG/L | | | | |
| r. Cobalt, Total (7440 48 4) | X | | <0.01 | | | | | | 1 | MG/L | | | | |
| s. Iron, Total (7439 89 6) | X | | 0.42 | 19.3 | | | | | 1 | MG/L | LB/D | | | |
| t. Magnesium, Total (7439 95-4) | X | | 7.88 | 362 | | | | | 1 | MG/L | LB/D | | | |
| u. Molybdenum, Total (7439-98-7) | | X | | | | | | | | | | | | |
| v. Manganese, Total (7439 96 5) | X | | 0.095 | 4.4 | | | | | 1 | MG/L | LB/D | | | |
| w. Tin, Total (7440 31 5) | | X | | | | | | | | | | | | |

| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 002 |

CONTINUED FROM PAGE 3 OF FORM 2-C

Form Approved OMB No. 158-R0173

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, non-process wastewater outfalls, and non-required 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 to be absent. If you mark either columns 2-a or 2-b for any pollutant, you must provide the results of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table *(all seven pages)* for each outfall. See instructions for additional details and requirements.

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE, AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony, Total (7440-36-0) | | X | | <0.1 | | | | | | 1 | MG/L | | | | |
| 2M. Arsenic, Total (7440-38-2) | | X | | <0.1 | | | | | | 1 | MG/L | | | | |
| 3M. Beryllium, Total, 7440-41-7) | | X | | <0.001 | | | | | | 1 | MG/L | | | | |
| 4M. Cadmium, Total (7440-43-9) | | X | | <0.005 | | | | | | 1 | MG/L | | | | |
| 5M. Chromium, Total (7440-47-3) | | X | | <0.05 | | | | | | 1 | MG/L | | | | |
| 6M. Copper, Total (7550-50-8) | | X | | <0.01 | | | | | | 1 | MG/L | | | | |
| 7M. Lead, Total (7439-97-6) | | X | | <0.05 | | | | | | 1 | MG/L | | | | |
| 8M. Mercury, Total (7439-97-6) | | X | | <0.2 | | | | | | 1 | µg/L | | | | |
| 9M. Nickel, Total (7440-02-0) | | X | | <0.05 | | | | | | 1 | MG/L | | | | |
| 10M. Selenium, Total (7782-49-2) | | X | | <0.1 | | | | | | 1 | MG/L | | | | |
| 11M. Silver, Total (7440-22-4) | | X | | <0.01 | | | | | | 1 | MG/L | | | | |
| 12M. Thallium, Total (7440-28-0) | | X | | <0.05 | | | | | | 1 | MG/L | | | | |
| 13M. Zinc, Total (7440-66-6) | | X | | <0.01 | | | | | | 1 | MG/L | | | | |
| 14M. Cyanide, Total (57-12-5) | | X | | <0.02 | | | | | | 1 | MG/L | | | | |
| 15M. Phenols, Total | | X | | <2.0 | | | | | | 1 | µg/L | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1746-01-6) | | | | DESCRIBE RESULTS | | | | | | | | | | | |

DISCHARGE SERIAL NUMBER 003

(1) Part V.A. - 1.f. -- All values based upon pump capacities; maximum 30-day and long term average values recorded during system testing and startup.

(2) Part V.A - 1.h. and i. -- Maximum daily value is from one grab sample and not from four per 24-hours.

(3) Part V.A - 2.b. and c., and Part V.B - 3.b. and c. -- Values are from grab sample analyses data from Discharge Monitoring Reports (DMR's).

(4) Part V.A - 2.d., and Part V.B - 3.d. -- Two numbers are reported in some cases; the first for maximum daily and the second for long term average.

(5) Part V.C - 1. (13B.) -- Identified in EPA report "Priority Pollutant Methodology Quality Assurance Review" by Kleopfer, Dias, and Fairless as problem priority pollutants since frequently found in blanks and samples because of laboratory contamination.

(6) Part V.C - 1. (29B) -- Source of Di - N - Octyl Phthalate assumed to be same as (5), above.

(7) DUE TO CONSTRUCTION SLOWDOWN AND THE PHYSICAL CONFIGURATION OF THE DIFFUSER SYSTEM, LOW FLOW CONDITIONS HAVE PREVENTED FLOW MEASUREMENT AND SAMPLING OF THIS DISCHARGE. DATA PRESENTED ARE FROM SAN NPDES PERMIT APPLICATION SUBMITTED JANUARY 20, 1981.

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| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 002 |

Form Approved OMB No. 158-R0173

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK 'X' a. PRESENT IN EFFLUENT | b. PRESENT IN EXCEPTIONAL QUANTITIES | 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 – 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 | | | | | | | | | | | | |



FOOTNOTES:

1-DATA FROM ONE GRAB SAMPLE COLLECTED AUGUST 18, 1986.

2- DATA TAKEN FROM DMRS SUBMITTED TO ADEM FOR THE PERIOD AUGUST 1985- JULY 1986.

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. TEST INCLUDED | 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 AVG. 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 | | | | | | | | | | | | |
| 2V. Acrylonitrile (107-13-1) | | | X | | | | | | | | | | | | |
| 3V. Benzene (71-43-2) | | | X | | | | | | | | | | | | |
| 4V. Bis (Chloromethyl) Ether (542-88-1) | | | X | | | | | | | | | | | | |
| 5V. Bromoform (75-25-2) | | | X | | | | | | | | | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | X | | | | | | | | | | | | |
| 7V. Chlorobenzene (108-90-7) | | | X | | | | | | | | | | | | |
| 8V. Chlorodibromomethane (124-48-1) | | | X | | | | | | | | | | | | |
| 9V. Chloroethane (75-00-3) | | | X | | | | | | | | | | | | |
| 10V. 2-Chloroethylvinyl Ether (110-75-8) | | | X | | | | | | | | | | | | |
| 11V. Chloroform (67-66-3) | | | X | | | | | | | | | | | | |
| 12V. Dichlorobromomethane (75-27-4) | | | X | | | | | | | | | | | | |
| 13V. Dichlorodifluoromethane (75-71-8) | | | X | | | | | | | | | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | X | | | | | | | | | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | X | | | | | | | | | | | | |
| 16V. 1,1-Dichloroethylene (75-35-4) | | | X | | | | | | | | | | | | |
| 17V. 1,2-Dichloropropane (78-87-5) | | | X | | | | | | | | | | | | |
| 18V. 1,2-Dichloropropylene (542-75-6) | | | X | | | | | | | | | | | | |
| 19V. Ethylbenzene (100-41-4) | | | X | | | | | | | | | | | | |
| 20V. Methyl Bromide (74-83-9) | | | X | | | | | | | | | | | | |
| 21V. Methyl Chloride (74-87-3) | | | X | | | | | | | | | | | | |

EPA Form 3510-2C (6-80)



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EPA I.D. NUMBER (copy from Item 1 of Form 1): AL5640090002

OUTFALL NUMBER: 002

Form Approved OMB No. 158-R0173

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. TYPE OF POLL. OR EQUIV. EFF. | 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) | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-09-2) | | | X | | | | | | | | | | | | |
| 23V. 1,1,2,2-Tetrachloroethane (79-34-5) | | | X | | | | | | | | | | | | |
| 24V. Tetrachloroethylene (127-18-4) | | | X | | | | | | | | | | | | |
| 25V. Toluene (108-88-3) | | | X | | | | | | | | | | | | |
| 26V. 1,2-Trans-Dichloroethylene (156-60-5) | | | X | | | | | | | | | | | | |
| 27V. 1,1,1-Trichloroethane (71-55-6) | | | X | | | | | | | | | | | | |
| 28V. 1,1,2-Trichloroethane (79-00-5) | | | X | | | | | | | | | | | | |
| 29V. Trichloroethylene (79-01-6) | | | X | | | | | | | | | | | | |
| 30V. Trichlorofluoromethane (75-69-4) | | | X | | | | | | | | | | | | |
| 31V. Vinyl Chloride (75-01-4) | | | X | | | | | | | | | | | | |
| GC/MS FRACTION – ACID COMPOUNDS | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | X | | | | | | | | | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | X | | | | | | | | | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | X | | | | | | | | | | | | |
| 4A. 4,6-Dinitro-O-Cresol (534-52-1) | | | X | | | | | | | | | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | X | | | | | | | | | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | X | | | | | | | | | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | X | | | | | | | | | | | | |
| 8A. P-Chloro-M-Cresol (59-50-7) | | | X | | | | | | | | | | | | |
| 9A. Pentachlorophenol (87-86-5) | | | X | | | | | | | | | | | | |
| 10A. Phenol (108-95-2) | | | X | | | | | | | | | | | | |
| 11A. [illegible] | | | X | | | | | | | | | | | | |

| NU[illegible] (if c[illegible] | A. Test Inc. Qua. | B. Re-ve-Prese-ent | C. Bel-ve-Abs-ent | a. MAXIMUM DAILY VALUE (1) CONCENTRATION | (2) MASS | b. MAXIMUM 30 DAY VA[illegible] (if available) (1) CONCENTRATION | (2) MASS | c. LONG TERM AVG. VALUE (if available) (1) CONCENTRATION | (2) MASS | d. NO. OF ANALYSES | 3. UNITS a. CONCENTRATION | b. MASS | 5. INTA[illegible] (if available) a. LONG TE[illegible] AVERAGE VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | X | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | X | | | | | | | | | | | | |
| 3B. Anthracene (120-12-7) | | | X | | | | | | | | | | | | |
| 4B. Benzidine (92-87-5) | | | X | | | | | | | | | | | | |
| 5B. Benzo *(a)* Anthracene (56-55-3) | | | X | | | | | | | | | | | | |
| 6B. Benzo *(a)* Pyrene (50-32-8) | | | X | | | | | | | | | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | | | X | | | | | | | | | | | | |
| 8B. Benzo *(ghi)* Perylene (191-24-2) | | | X | | | | | | | | | | | | |
| 9B. Benzo *(k)* Fluoranthene (207-08-9) | | | X | | | | | | | | | | | | |
| 10B. Bis *(2-Chloro-ethoxy)* Methane (111-91-1) | | | X | | | | | | | | | | | | |
| 11B. Bis *(2-Chloro-ethyl)* Ether (111-44-4) | | | X | | | | | | | | | | | | |
| 12B. Bis *(2-Chloro-isopropyl)* Ether (39638-32-9) | | | X | | | | | | | | | | | | |
| 13B. Bis *(2-Ethyl-hexyl)* Phthalate (117-81-7) | | | X | | | | | | | | | | | | |
| 14B. 4-Bromo-phenyl Phenyl Ether (101-55-3) | | | X | | | | | | | | | | | | |
| 15B. Butyl Benzyl Phthalate (85-68-7) | | | X | | | | | | | | | | | | |
| 16B. 2-Chloro-naphthalene (91-58-7) | | | X | | | | | | | | | | | | |
| 17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3) | | | X | | | | | | | | | | | | |
| 18B. Chrysene (218-01-9) | | | X | | | | | | | | | | | | |
| 19B. Dibenzo *(a,h)* Anthracene (53-70-3) | | | X | | | | | | | | | | | | |
| 20B. 1,2-Dichloro-benzene (95-50-1) | | | X | | | | | | | | | | | | |
| 21B. 1,3-Dichloro-benzene (541-73-1) | | | X | | | | | | | | | | | | |

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CONTINUE ON PAGE V-7

EPA I.D. NUMBER (copy from Item 1 of Form 1): AL5640090002

OUTFALL NUMBER: 002

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Form Approved OMB No. 158-R0173

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. Believed Present | b. Believed Absent | c. Base/Neutral | 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 – BASE/NEUTRAL COMPOUNDS (continued) | | | | | | | | | | | | | | | |
| 22B. 1,4 Dichlorobenzene (106-46-7) | | | X | | | | | | | | | | | | |
| 23B. 3,3'-Dichlorobenzidine (91-94-1) | | | X | | | | | | | | | | | | |
| 24B. Diethyl Phthalate (84-66-2) | | | X | | | | | | | | | | | | |
| 25B. Dimethyl Phthalate (131-11-3) | | | X | | | | | | | | | | | | |
| 26B. Di-N-Butyl Phthalate (84-74-2) | | | X | | | | | | | | | | | | |
| 27B. 2,4 Dinitrotoluene (121-14-2) | | | X | | | | | | | | | | | | |
| 28B. 2,6 Dinitrotoluene (606-20-2) | | | X | | | | | | | | | | | | |
| 29B. Di-N-Octyl Phthalate (117-84-0) | | | X | | | | | | | | | | | | |
| 30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7) | | | X | | | | | | | | | | | | |
| 31B. Fluoranthene (206-44-0) | | | X | | | | | | | | | | | | |
| 32B. Fluorene (86-73-7) | | | X | | | | | | | | | | | | |
| 33B. Hexachlorobenzene (118-71-1) | | | X | | | | | | | | | | | | |
| 34B. Hexachlorobutadiene (87-68-3) | | | X | | | | | | | | | | | | |
| 35B. Hexachlorocyclopentadiene (77-47-4) | | | X | | | | | | | | | | | | |
| 36B. Hexachloroethane (67-72-1) | | | X | | | | | | | | | | | | |
| 37B. Indeno (1,2,3-cd) Pyrene (193-39-5) | | | X | | | | | | | | | | | | |
| 38B. Isophorone (78-59-1) | | | X | | | | | | | | | | | | |
| 39B. Naphthalene (91-20-3) | | | X | | | | | | | | | | | | |
| 40B. Nitrobenzene (98-95-3) | | | X | | | | | | | | | | | | |
| 41B. N-Nitrosodimethylamine (62-75-9) | | | X | | | | | | | | | | | | |
| 42B. N-Nitrosodi- | | | X | | | | | | | | | | | | |

| 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 – BASE/NEUTRAL COMPOUNDS** *(continued)* | | | | | | | | | | | | | | | |
| 43B. N-Nitrosodiphenylamine (86-30-6) | | | X | | | | | | | | | | | | |
| 44B. Phenanthrene (85-01-8) | | | X | | | | | | | | | | | | |
| 45B. Pyrene (129-00-0) | | | X | | | | | | | | | | | | |
| 46B. 1,2,4-Trichlorobenzene (120-82-1) | | | X | | | | | | | | | | | | |
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (319-85-7) | | | X | | | | | | | | | | | | |
| 4P. γ-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | X | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | X | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P. Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |

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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 I of Form 1): AL5640090002

Form Approved OMB No. 158-R0173

OUTFALL NO: 003

## 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 (7) a. MAXIMUM DAILY VALUE (1) Concentration | (2) Mass | b. MAXIMUM 30 DAY VALUE (if available) (3) (1) Concentration | (2) Mass | c. LONG TERM AVRG. VALUE (if available) (3) (1) Concentration | (2) Mass | d. NO. OF ANALYSES (4) | 3. UNITS (specify if blank) a. CONCENTRATION | b. MASS | 4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) Concentration | (2) Mass | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) | 3.2 | 390 | | | | | 1 | mg/1 | lbs/day | | | |
| b. Chemical Oxygen Demand (COD) | 15 | 1850 | | | | | 1 | mg/1 | lbs/day | | | |
| c. Total Organic Carbon (TOC) | 2.1 | 260 | | | | | 1 | mg/1 | lbs/day | | | |
| d. Total Suspended Solids (TSS) | 8 | 980 | | | | | 1 | mg/1 | lbs/day | | | |
| e. Ammonia (as N) | <0.01 | | | | | | 1 | mg/1 | | | | |
| f. Flow (1) | VALUE 14.7 | | VALUE 2.95 | | VALUE 1.06 | | 1-33 | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | °C | | VALUE | | |
| h. Temperature (summer) (2) | VALUE 18.5 | | | | VALUE | | 1 | °C | | VALUE | | |
| i. pH (2) | MINIMUM | MAXIMUM 7.2 | MINIMUM 6.9 | MAXIMUM 8.0 | | | 1-25 | 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 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. 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. PRESENT | b. ABSENT | 3. EFFLUENT (7) a. MAXIMUM DAILY VALUE (1) Concentration | (2) Mass | b. MAXIMUM 30 DAY VALUE (if available) (3) (1) Concentration | (2) Mass | c. LONG TERM AVRG. VALUE (if available) (3) (1) Concentration | (2) Mass | d. NO. OF ANALYSES (4) | 4. UNITS a. CONCENTRATION | b. MASS | 5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) Concentration | (2) Mass | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | | X | | | | | | | | | | | | |
| b. Chlorine, Total Residual (2) | X | | 0.05 | 6 | <0.08 | <4 | <0.02 | <0.85 | 1-28 | mg/1 | lbs/day | | | |
| c. Color | X | | 4 | | | | | | 1 | PCU | | | | |
| d. Fecal Coliform (2) | | X | | | | | | | | | | | | |
| e. Fluoride (16984-48-8) | | X | | | | | | | | | | | | |
| f. Nitrate-Nitrite (as N) | X | | 0.29 | 35 | | | | | 1 | mg/1 | lbs/day | | | |



CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK X a. BASIC REQUIREMENT | b. PRESENT | 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 | | 0.35 | 43 | | | | | 1 | mg/l | lbs/day | | | |
| h. Oil and Grease (2) | X | | <5 | | | | | | 1 | mg/l | | | | |
| i. Phosphorus (as P), Total (7723 14 0) | X | | 0.05 | 6 | | | | | 1 | mg/l | lbs/day | | | |
| j. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium, Total | | X | | | | | | | | | | | | |
| (4) Radium 226, Total | | X | | | | | | | | | | | | |
| k. Sulfate (as $SO_4$) (14808 79 8) | X | | 66 | 8100 | | | | | 1 | mg/l | lbs/day | | | |
| l. Sulfide (as S) | | X | | | | | | | | | | | | |
| m. Sulfite (as $SO_3$) (14265 45 3) | | X | | | | | | | | | | | | |
| n. Surfactants | X | | <0.1 | | | | | | 1 | mg/l | | | | |
| o. Aluminum, Total (7429-90-5) | X | | 500 | 60 | | | | | 1 | µg/l | lbs/day | | | |
| p. Barium, Total (7440 39-3) | | | | | | | | | | | | | | |
| q. Boron, Total (7440 42 8) | | | | | | | | | | | | | | |
| r. Cobalt, Total (7440-48-4) | | X | | | | | | | | | | | | |
| s. Iron, Total (7439-89-6) | X | | 810 | 100 | | | | | 1 | µg/l | lbs/day | | | |
| t. Magnesium, Total (7439-95-4) | X | | 5.2 | 640 | | | | | 1 | mg/l | lbs/day | | | |
| u. Molybdenum, Total (7439-98 7) | | X | | | | | | | | | | | | |
| v. Manganese, Total (7439 96 5) | X | | 40 | 5 | | | | | 1 | µg/l | lbs/day | | | |
| w. Tin, Total (7440 31-5) | | X | | | | | | | | | | | | |
| x. Titanium, Total (7440 32 6) | | X | | | | | | | | | | | | |



CONTINUE ON PAGE V-3

| EPA I.D. NUMBER (copy from Item I of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 003 |

CONTINUED FROM PAGE 3 OF FORM 2-C

Form Approved OMB No. 158-R0173

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, non-process wastewater outfalls, and non-required 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 to be absent. If you mark either columns 2-a or 2-b for any pollutant, you must provide the results of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table *(all seven pages)* for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. TEST INC. MFG. QUIN. ED | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE, AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony, Total (7440-36-0) | X | | | <2 | | | | | | 1 | µg/l | | | | |
| 2M. Arsenic, Total (7440-38-2) | X | | | 7 | 0.86 | | | | | 1 | µg/l | lbs/day | | | |
| 3M. Beryllium, Total (7440-41-7) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 4M. Cadmium, Total (7440-43-9) | X | | | <0.1 | | | | | | 1 | µg/l | | | | |
| 5M. Chromium, Total (7440-47-3) | X | | | <1 | | | | | | 1 | µg/l | | | | |
| 6M. Copper, Total (7550-50-8) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 7M. Lead, Total (7439-97-6) | X | | | 5 | 0.61 | | | | | 1 | µg/l | lbs/day | | | |
| 8M. Mercury, Total (7439-97-6) | X | | | <0.2 | | | | | | 1 | µg/l | | | | |
| 9M. Nickel, Total (7440-02-0) | X | | | <50 | | | | | | 1 | µg/l | | | | |
| 10M. Selenium, Total (7782-49-2) | X | | | <1 | | | | | | 1 | µg/l | | | | |
| 11M. Silver, Total (7440-22-4) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 12M. Thallium, Total (7440-28-0) | X | | | <0.05 | | | | | | 1 | mg/l | | | | |
| 13M. Zinc, Total (7440-66-6) | X | | | 20 | 2 | | | | | 1 | µg/l | lbs/day | | | |
| 14M. Cyanide, Total (57-12-5) (2) | X | | | <0.02 | | | | | | 1 | mg/l | | | | |
| 15M. Phenols, Total (2) | X | | | <1 | | | | | | 1 | µg/l | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetrachlorodibenzo P Dioxin (1764-01-6) | | | X | DESCRIBE RESULTS | | | | | | | | | | | |



CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK X: a. TESTED (see instructions) | b. REQUIRED (see instructions) | c. VALUE ABSENT | 3. EFFLUENT: a. MAXIMUM DAILY VALUE (if available) (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 | | | <100 | | | | | | 1 | µg/l | | | | |
| 2V. Acrylonitrile (107-13-1) | X | | | <100 | | | | | | 1 | µg/l | | | | |
| 3V. Benzene (71-43-2) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 4V. Bis (Chloromethyl) Ether (542-88-1) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 5V. Bromoform (75-25-2) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 7V. Chlorobenzene (108-90-7) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 8V. Chlorodibromomethane (124-48-1) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 9V. Chloroethane (75-00-3) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 10V. 2-Chloroethylvinyl Ether (110-75-8) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 11V. Chloroform (67-66-3) | X | | | 18 | 2 | | | | | 1 | µg/l | lbs/day | | | |
| 12V. Dichlorobromomethane (75-27-4) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 13V. Dichlorodifluoromethane (75-71-8) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 16V. 1,1-Dichloroethylene (75-35-4) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 17V. 1,2-Dichloropropane (78-87-5) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 18V. 1,2-Dichloropropylene (542-75-6) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 19V. Ethylbenzene (100-41-4) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 20V. Methyl Bromide (74-83-9) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 21V. Methyl Chloride (74-87-3) | X | | | <10 | | | | | | 1 | µg/l | | | | |



CONTINUE ON PAGE V-5

CONTINUED FROM PAGE V-4

| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 003 |

Form Approved OMB No. 158-R0173

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK X | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. PRODUCTION DATA | b. LIMITS REQUIRED | c. 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 AVG. VALUE (if available) (1) CONCENTRATION | c. LONG TERM AVG. VALUE (if available) (2) MASS | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | a. LONG TERM AVERAGE VALUE (2) MASS | b. NO. OF ANALYSES |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** (continued) | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75 09 2) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 23V. 1,1,2,2 Tetra chloroethane (79 34 5) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 24V. Tetrachloro ethylene (127 18 4) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 25V. Toluene (108 88 3) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 26V. 1,2-Trans-Dichloroethylene (156 60 5) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 27V. 1,1,1-Tri-chloroethane (71 55 6) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 28V. 1,1,2 Tri-chloroethane (79 00 5) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 29V. Trichloro-ethylene (79 01 6) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 30V. Trichloro-fluoromethane (75 69 4) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 31V. Vinyl Chloride (75 01 4) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2 Chlorophenol (95 57 8) | X | | | <25 | | | | | | 1 | µg/l | | | | |
| 2A. 2,4-Dichloro phenol (120 83 2) | X | | | <25 | | | | | | 1 | µg/l | | | | |
| 3A. 2,4 Dimethyl phenol (105 67 9) | X | | | <25 | | | | | | 1 | µg/l | | | | |
| 4A. 4,6-Dinitro O Cresol (534 52 1) | X | | | <250 | | | | | | 1 | µg/l | | | | |
| 5A. 2,4 Dinitro-phenol (51 28 5) | X | | | <250 | | | | | | 1 | µg/l | | | | |
| 6A. 2 Nitrophenol (88 75 5) | X | | | <25 | | | | | | 1 | µg/l | | | | |
| 7A. 4 Nitrophenol (100 02 7) | X | | | <25 | | | | | | 1 | µg/l | | | | |
| 8A. P-Chloro M Cresol (59 50 7) | X | | | <25 | | | | | | 1 | µg/l | | | | |
| 9A. Pentachloro phenol (87 86 5) | X | | | <25 | | | | | | 1 | µg/l | | | | |
| 10A. Phenol (108 95 2) | X | | | <25 | | | | | | 1 | µg/l | | | | |
| 11A. 2,4,6-Tri chlorophenol (88 06 2) | X | | | <25 | | | | | | 1 | µg/l | | | | |



CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. PRESENCE/ABSENCE | b. PRESENCE/ABSENCE | c. PRESENCE/ABSENCE | a. MAXIMUM DAILY VALUE (if available) | | b. MAXIMUM 30 DAY VALUE (if available) | | c. LONG TERM AVRG. VALUE (if available) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 2B. Acenaphthylene (208-96-8) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 3B. Anthracene (120-12-7) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 4B. Benzidine (92-87-5) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 5B. Benzo (a) Anthracene (56-55-3) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 6B. Benzo (a) Pyrene (50-32-8) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 8B. Benzo (ghi) Perylene (191-24-2) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 9B. Benzo (k) Fluoranthene (207-08-9) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 10B. Bis (2-Chloro-ethoxy) Methane (111-91-1) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 11B. Bis (2-Chloro-ethyl) Ether (111-44-4) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 12B. Bis (2-Chloro-isopropyl) Ether (39638-32-9) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7) | X | | | 2700 | 330 | | | | | 1 | µg/l | lbs/day | | | |
| 14B. 4 Bromo phenyl Phenyl Ether (101-55-3) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 15B. Butyl Benzyl Phthalate (85-68-7) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 16B. 2-Chloro-naphthalene (91-58-7) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 18B. Chrysene (218-01-9) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 19B. Dibenzo (a,h) Anthracene (53-70-3) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 20B. 1,2 Dichloro-benzene (95-50-1) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 21B. 1,3 Dichloro-benzene (541-73-1) | X | | | <10 | | | | | | 1 | µg/l | | | | |



CONTINUE ON PAGE V-7

CONTINUED FROM THE FRONT

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK X | | | 3. EFFLUENT | | | | | | 4. UNITS | | 5. INTAKE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. BELIEVED PRESENT | b. BELIEVED ABSENT | c. ANALYZED | a. MAXIMUM DAILY VALUE (if available) | | 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 |
| | | | | (a) CONCENTRATION | (b) MASS | (a) CONCENTRATION | (b) MASS | (a) CONCENTRATION | (b) MASS | | | | (a) CONCENTRATION | (b) MASS | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** (continued) | | | | | | | | | | | | | | | |
| 43B. N-nitrosodiphenylamine (86-30-6) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 44L. Phenanthrene (85-01-8) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 45B. Pyrene (129-00-0) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 46B. 1,2,4-Trichlorobenzene (120-82-1) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| **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): AL5640090002 | OUTFALL NUMBER: 003

Form Approved OMB No. 158-R0173

CONTINUED FROM PAGE V-6

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK X: a. TESTED BUT NOT DETECTED | b. TESTED BUT NOT DETECTED | c. TESTED AND DETECTED | 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 AVRG. VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued) | | | | | | | | | | | | | | | |
| 22B. 1,4 Dichlorobenzene (106-46-7) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 23B. 3,3' Dichlorobenzidine (91-94-1) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 24B. Diethyl Phthalate (84-66-2) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 25B. Dimethyl Phthalate (131-11-3) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 26B. Di-N-Butyl Phthalate (84-74-2) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 27B. 2,4 Dinitrotoluene (121-14-2) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 28B. 2,6 Dinitrotoluene (606-20-2) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 29B. Di-N-Octyl Phthalate (117-84-0) (6) | X | | | 22 | 3 | | | | | 1 | µg/l | lbs/day | | | |
| 30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 31B. Fluoranthene (206-44-0) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 32B. Fluorene (86-73-7) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 33B. Hexachlorobenzene (118-71-1) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 34B. Hexachlorobutadiene (87-68-3) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 35B. Hexachlorocyclopentadiene (77-47-4) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 36B. Hexachloroethane (67-72-1) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 37B. Indeno (1,2,3-cd) Pyrene (193-39-5) | X | | | <25 | | | | | | 1 | µg/l | | | | |
| 38B. Isophorone (78-59-1) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 39B. Naphthalene (91-20-3) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 40B. Nitrobenzene (98-95-3) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 41B. N-Nitrosodimethylamine (62-75-9) | X | | | <10 | | | | | | 1 | µg/l | | | | |
| 42B. N-Nitrosodi-N-Propylamine (621-64-7) | X | | | | | | | | | 1 | µg/l | | | | |



CONTINUE ON REVERSE

CONTINUED FROM PAGE 2

EPA I.D. NUMBER (copy from Item 1 of Form 1): AL5640090002 OUTFALL NUMBER: 003

Form Approved OMB No. 158-R0173

| 1. POLLUTANTS AND CAS NUMBERS (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. LIMITS REQUIRED | b. MONITORING REQUIRED | c. BASIS FOR LIMITS | a. MAXIMUM DAILY VALUE (if available) | | 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 AVRG. VALUE (if available) | | b. NO. OF ANALYSES |
| | | | | a. CONCENTRATION | b. MASS | a. CONCENTRATION | b. MASS | a. CONCENTRATION | b. MASS | | | | a. CONCENTRATION | b. 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 (11104-29-2) | | | 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 | | | | | | | | | | | | |



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EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: AL5640090002

*Form Approved OMB No. 158-R0173*

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 | (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 | 3. UNITS (specify if blank) a. CONCENTRATION | b. MASS | 4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) 1) | 3.7 | 50 | | | | | 1 | MG/L | LB/D | | | |
| b. Chemical Oxygen Demand (COD) 1) | 20 | 272 | | | | | 1 | MG/L | LB/D | | | |
| c. Total Organic Carbon (TOC) 1) | 7.9 | 108 | | | | | 1 | MG/L | LB/D | | | |
| d. Total Suspended Solids (TSS) 2) | 67 | 912 | 36 | 228 | <17 | <28 | 39 | MG/L | LB/D | | | |
| e. Ammonia (as N) 1) | 0.13 | 1.77 | | | | | 1 | MG/L | LB/D | | | |
| f. Flow 2) | VALUE 1.632 | | VALUE 0.416 | | VALUE 0.075 | | 39 | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE AMBIENT | | VALUE | | VALUE | | | °C | | VALUE | | |
| h. Temperature (summer) 2) | VALUE 29.0 | | VALUE | | VALUE | | 1 | °C | | VALUE | | |
| i. pH 2) | MINIMUM 7.1 | MAXIMUM 8.0 | MINIMUM 7.4 | MAXIMUM 7.8 | | | 39 | 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 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. 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 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | | X | | | | | | | | | | | | |
| b. Chlorine, Total Residual | | X | | | | | | | | | | | | |
| c. Color | X | | 30 | | | | | | 1 | PCU | | | | |
| d. Fecal Coliform | | X | | | | | | | | | | | | |
| e. Fluoride (16984-48-8) | | X | | | | | | | | | | | | |
| f. Nitrate-Nitrite (as N) | X | | 0.06 | 0.82 | | | | | 1 | MG/L | LB/D | | | |



CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK 'X' a. REQUIRED FOR BCT | b. REQUIRED FOR BAT | 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 | | 1.1 | 15 | | | | | 1 | MG/L | LB/D | | | |
| h. Oil and Grease | X | | <5.0 | | | | | | 1 | MG/L | | | | |
| i. Phosphorus (as P), Total (7723 14 0) | X | | 0.11 | 1.4 | | | | | 1 | MG/L | LB/D | | | |
| j. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium, Total | | X | | | | | | | | | | | | |
| (4) Radium 226, Total | | X | | | | | | | | | | | | |
| k. Sulfate (as $SO_4$) (14808 79-8) | X | | 19 | 259 | | | | | 1 | MG/L | LB/D | | | |
| l. Sulfide (as S) | | X | | | | | | | | | | | | |
| m. Sulfite (as $SO_3$) (14265-45-3) | | X | | | | | | | | | | | | |
| n. Surfactants | X | | <0.1 | | | | | | 1 | MG/L | | | | |
| o. Aluminum, Total (7429 90-5) | X | | 0.48 | 6.5 | | | | | 1 | MG/L | LB/D | | | |
| p. Barium, Total (7440 39-3) | X | | 0.05 | 0.68 | | | | | 1 | MG/L | LB/D | | | |
| q. Boron, Total (7440 42 8) | X | | <0.05 | | | | | | 1 | MG/L | | | | |
| r. Cobalt, Total (7440 48-4) | X | | <0.01 | | | | | | 1 | MG/L | | | | |
| s. Iron, Total (7439 89 6) | X | | 0.84 | 11.4 | | | | | 1 | MG/L | LB/D | | | |
| t. Magnesium, Total (7439 95-4) | X | | 7.45 | 101 | | | | | 1 | MG/L | LB/D | | | |
| u. Molybdenum, Total (7439 98-7) | | X | | | | | | | | | | | | |
| v. Manganese, Total (7439 96 5) | X | | 0.168 | 2.29 | | | | | 1 | MG/L | LB/D | | | |
| w. Tin, Total (7440 31 5) | X | | <0.05 | | | | | | 1 | MG/L | | | | |
| TITANIUM | X | | 0.016 | 0.22 | | | | | 1 | MG/L | LB/D | | | |

| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
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Form Approved OMB No. 158-R0173

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, non-process wastewater outfalls, and non-required 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 to be absent. If you mark either columns 2-a or 2-b for any pollutant, you must provide the results of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table *(all seven pages)* for each outfall. See instructions for additional details and requirements.

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE, AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony, Total (7440-36-0) | | X | | <0.1 | | | | | | 1 | MG/L | | | | |
| 2M. Arsenic, Total (7440-38-2) | | X | | <0.1 | | | | | | 1 | MG/L | | | | |
| 3M. Beryllium, Total, 7440-41-7) | | X | | <0.001 | | | | | | 1 | MG/L | | | | |
| 4M. Cadmium, Total (7440-43-9) | | X | | <0.005 | | | | | | 1 | MG/L | | | | |
| 5M. Chromium, Total (7440-47-3) | | X | | <0.05 | | | | | | 1 | MG/L | | | | |
| 6M. Copper, Total (7550-50-8) | | X | | <0.01 | | | | | | 1 | MG/L | | | | |
| 7M. Lead, Total (7439-97-6) | | X | | <0.05 | | | | | | 1 | MG/L | | | | |
| 8M. Mercury, Total (7439-97-6) | | X | | <0.2 | | | | | | 1 | µg/L | | | | |
| 9M. Nickel, Total (7440-02-0) | | X | | <0.05 | | | | | | 1 | MG/L | | | | |
| 10M. Selenium, Total (7782-49-2) | | X | | <0.1 | | | | | | 1 | MG/L | | | | |
| 11M. Silver, Total (7440-22-4) | | X | | <0.01 | | | | | | 1 | MG/L | | | | |
| 12M. Thallium, Total (7440-28-0) | | X | | <0.05 | | | | | | 1 | MG/L | | | | |
| 13M. Zinc, Total (7440-66-6) | | X | | <0.01 | | | | | | 1 | MG/L | | | | |
| 14M. Cyanide, Total (57-12-5) | | X | | <0.02 | | | | | | 1 | MG/L | | | | |
| 15M. Phenols, Total | | X | | <2.0 | | | | | | 1 | µg/L | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetrachlorodibenzo P Dioxin (1746-01-6) | | | 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 | (2) MASS | b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION | (2) MASS | c. LONG TERM AVG. 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 | | | | | | | | | | | | |
| 2V. Acrylonitrile (107-13-1) | | | X | | | | | | | | | | | | |
| 3V. Benzene (71-43-2) | | | X | | | | | | | | | | | | |
| 4V. Bis (Chloromethyl) Ether (542-88-1) | | | X | | | | | | | | | | | | |
| 5V. Bromoform (75-25-2) | | | X | | | | | | | | | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | X | | | | | | | | | | | | |
| 7V. Chlorobenzene (108-90-7) | | | X | | | | | | | | | | | | |
| 8V. Chlorodibromomethane (124-48-1) | | | X | | | | | | | | | | | | |
| 9V. Chloroethane (75-00-3) | | | X | | | | | | | | | | | | |
| 10V. 2-Chloroethylvinyl Ether (110-75-8) | | | X | | | | | | | | | | | | |
| 11V. Chloroform (67-66-3) | | | X | | | | | | | | | | | | |
| 12V. Dichlorobromomethane (75-27-4) | | | X | | | | | | | | | | | | |
| 13V. Dichlorodifluoromethane (75-71-8) | | | X | | | | | | | | | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | X | | | | | | | | | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | X | | | | | | | | | | | | |
| 16V. 1,1-Dichloroethylene (75-35-4) | | | X | | | | | | | | | | | | |
| 17V. 1,2-Dichloropropane (78-87-5) | | | X | | | | | | | | | | | | |
| 18V. 1,2-Dichloropropylene (542-75-6) | | | X | | | | | | | | | | | | |
| 19V. Ethylbenzene (100-41-4) | | | X | | | | | | | | | | | | |
| 20V. Methyl Bromide (74-83-9) | | | X | | | | | | | | | | | | |
| 21V. Methyl Chloride (74-87-3) | | | X | | | | | | | | | | | | |



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EPA I.D. NUMBER (copy from Item I of Form 1): AL5640090002

OUTFALL NUMBER: 004

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| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK 'X' a. TREATMENT 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. ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – VOLATILE COMPOUNDS (continued) | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-09-2) | | | X | | | | | | | | | | | | |
| 23V. 1,1,2,2-Tetrachloroethane (79-34-5) | | | X | | | | | | | | | | | | |
| 24V. Tetrachloroethylene (127-18-4) | | | X | | | | | | | | | | | | |
| 25V. Toluene (108-88-3) | | | X | | | | | | | | | | | | |
| 26V. 1,2-Trans-Dichloroethylene (156-60-5) | | | X | | | | | | | | | | | | |
| 27V. 1,1,1-Trichloroethane (71-55-6) | | | X | | | | | | | | | | | | |
| 28V. 1,1,2-Trichloroethane (79-00-5) | | | X | | | | | | | | | | | | |
| 29V. Trichloroethylene (79-01-6) | | | X | | | | | | | | | | | | |
| 30V. Trichlorofluoromethane (75-69-4) | | | X | | | | | | | | | | | | |
| 31V. Vinyl Chloride (75-01-4) | | | X | | | | | | | | | | | | |
| GC/MS FRACTION – ACID COMPOUNDS | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | X | | | | | | | | | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | X | | | | | | | | | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | X | | | | | | | | | | | | |
| 4A. 4,6-Dinitro-O-Cresol (534-52-1) | | | X | | | | | | | | | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | X | | | | | | | | | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | X | | | | | | | | | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | X | | | | | | | | | | | | |
| 8A. P-Chloro-M-Cresol (59-50-7) | | | X | | | | | | | | | | | | |
| 9A. Pentachlorophenol (87-86-5) | | | X | | | | | | | | | | | | |
| 10A. Phenol (108-95-2) | | | X | | | | | | | | | | | | |
| 11A. 2,4,6-Tri- | | | X | | | | | | | | | | | | |

| Pollutant (if available) | a. Testing required | b. Believed present | c. Believed absent | a. Maximum Daily Value (if available) (1) Concentration | (2) Mass | b. Maximum 30 Day Value (if available) (1) Concentration | (2) Mass | c. Long Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 3. Units a. Concentration | b. Mass | 5. Intake (optional) a. Long Term Average Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | X | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | X | | | | | | | | | | | | |
| 3B. Anthracene (120-12-7) | | | X | | | | | | | | | | | | |
| 4B. Benzidine (92-87-5) | | | X | | | | | | | | | | | | |
| 5B. Benzo (a) Anthracene (56-55-3) | | | X | | | | | | | | | | | | |
| 6B. Benzo (a) Pyrene (50-32-8) | | | X | | | | | | | | | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | | | X | | | | | | | | | | | | |
| 8B. Benzo (ghi) Perylene (191-24-2) | | | X | | | | | | | | | | | | |
| 9B. Benzo (k) Fluoranthene (207-08-9) | | | X | | | | | | | | | | | | |
| 10B. Bis (2-Chloro-ethoxy) Methane (111-91-1) | | | X | | | | | | | | | | | | |
| 11B. Bis (2-Chloro-ethyl) Ether (111-44-4) | | | X | | | | | | | | | | | | |
| 12B. Bis (2-Chloro-isopropyl) Ether (39638-32-9) | | | X | | | | | | | | | | | | |
| 13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7) | | | X | | | | | | | | | | | | |
| 14B. 4-Bromo-phenyl Phenyl Ether (101-55-3) | | | X | | | | | | | | | | | | |
| 15B. Butyl Benzyl Phthalate (85-68-7) | | | X | | | | | | | | | | | | |
| 16B. 2-Chloro-naphthalene (91-58-7) | | | X | | | | | | | | | | | | |
| 17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3) | | | X | | | | | | | | | | | | |
| 18B. Chrysene (218-01-9) | | | X | | | | | | | | | | | | |
| 19B. Dibenzo (a,h) Anthracene (53-70-3) | | | X | | | | | | | | | | | | |
| 20B. 1,2-Dichloro-benzene (95-50-1) | | | X | | | | | | | | | | | | |
| 21B. 1,3-Dichloro-benzene (541-73-1) | | | X | | | | | | | | | | | | |

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| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
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| AL5640090002 | 004 |

Form Approved OMB No. 158-R0173

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. Believed Present | b. Believed Absent | c. Believed Present | 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. ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued) | | | | | | | | | | | | | | | |
| 22B. 1,4 Dichlorobenzene (106-46-7) | | | X | | | | | | | | | | | | |
| 23B. 3,3'-Dichlorobenzidine (91-94-1) | | | X | | | | | | | | | | | | |
| 24B. Diethyl Phthalate (84-66-2) | | | X | | | | | | | | | | | | |
| 25B. Dimethyl Phthalate (131-11-3) | | | X | | | | | | | | | | | | |
| 26B. Di-N-Butyl Phthalate (84-74-2) | | | X | | | | | | | | | | | | |
| 27B. 2,4 Dinitrotoluene (121-14-2) | | | X | | | | | | | | | | | | |
| 28B. 2,6-Dinitrotoluene (606-20-2) | | | X | | | | | | | | | | | | |
| 29B. Di-N-Octyl Phthalate (117-84-0) | | | X | | | | | | | | | | | | |
| 30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7) | | | X | | | | | | | | | | | | |
| 31B. Fluoranthene (206-44-0) | | | X | | | | | | | | | | | | |
| 32B. Fluorene (86-73-7) | | | X | | | | | | | | | | | | |
| 33B. Hexachlorobenzene (118-74-1) | | | X | | | | | | | | | | | | |
| 34B. Hexachlorobutadiene (87-68-3) | | | X | | | | | | | | | | | | |
| 35B. Hexachlorocyclopentadiene (77-47-4) | | | X | | | | | | | | | | | | |
| 36B. Hexachloroethane (67-72-1) | | | X | | | | | | | | | | | | |
| 37B. Indeno (1,2,3-cd) Pyrene (193-39-5) | | | X | | | | | | | | | | | | |
| 38B. Isophorone (78-59-1) | | | X | | | | | | | | | | | | |
| 39B. Naphthalene (91-20-3) | | | X | | | | | | | | | | | | |
| 40B. Nitrobenzene (98-95-3) | | | X | | | | | | | | | | | | |
| 41B. N-Nitrosodimethylamine (62-75-9) | | | X | | | | | | | | | | | | |
| 42B. [illegible] | | | X | | | | | | | | | | | | |

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

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| EPA I.D. NUMBER (copy from Item I of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 004 |

Form Approved OMB No. 158-R0173

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. TEST INC. BELIEVED PRESENT | 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 — 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 | | | | | | | | | | | | |



FOOTNOTES:

1- DATA FROM ONE GRAB SAMPLE COLLECTED AUGUST 18, 1986.

2- DATA TAKEN FROM DMRS SUBMITTED TO ADEM FOR THE PERIOD AUGUST 1985 - JULY 1986.

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)*: AL5640090002

*Form Approved OMB No. 158-R0173*

OUTFALL NO.: 007

## 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 | (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 | 3. UNITS (specify if blank) a. CONCENTRATION | b. MASS | 4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) 1) | <1.0 | | | | | | 1 | MG/L | | | | |
| b. Chemical Oxygen Demand (COD) 1) | 10 | 100 | | | | | 1 | MG/L | LB/D | | | |
| c. Total Organic Carbon (TOC) 1) | 4.2 | 42 | | | | | 1 | MG/L | LB/D | | | |
| d. Total Suspended Solids (TSS) 2) | 24 | 120 | 13 | 65 | 6.0 | <30 | 45 | MG/L | LB/D | | | |
| e. Ammonia (as N) 1) | 0.01 | 0.1 | | | | | 1 | MG/L | LB/D | | | |
| f. Flow 2) | VALUE 1.2 | | VALUE 0.68 | | VALUE 0.47 | | 55 | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | °C | | VALUE | | |
| h. Temperature (summer) 1) | VALUE 29.4 | | VALUE | | VALUE | | 1 | °C | | VALUE | | |
| i. pH 1) | MINIMUM | MAXIMUM 8.1 | MINIMUM | MAXIMUM | | | 1 | 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 mar column 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additiona details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK 'X' a. BELIEVED PRESENT | b. BELIEVED ABSENT | 3. EFFLUENT 1) 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | | X | | | | | | | | | | | | |
| b. Chlorine, Total Residual | X | | <0.02 | | | | | | 1 | MG/L | | | | |
| c. Color | X | | 7.0 | | | | | | 1 | PCU | | | | |
| d. Fecal Coliform | | X | | | | | | | | | | | | |
| e. Fluoride (16984-48-8) | | X | | | | | | | | | | | | |
| f. Nitrate-Nitrite (as N) | X | | <0.01 | | | | | | 1 | MG/L | | | | |



CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK 'X' a. PRESENT | b. 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 | | 0.41 | 4.1 | | | | | 1 | MG/L | LB/D | | | |
| h. Oil and Grease 21 | X | | 10 | <65 | <6.3 | | <5.2 | | 51 | MG/L | LB/D | | | |
| i. Phosphorus (as P), Total (7723 14 0) | X | | 0.08 | 0.8 | | | | | 1 | MG/L | LB/D | | | |
| j. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium, Total | | X | | | | | | | | | | | | |
| (4) Radium 226, Total | | X | | | | | | | | | | | | |
| k. Sulfate (as $SO_4$) (14808 79 8) | X | | 19 | 190 | | | | | 1 | MG/L | LB/D | | | |
| l. Sulfide (as S) | | X | | | | | | | | | | | | |
| m. Sulfite (as $SO_3$) (14265-45-3) | | X | | | | | | | | | | | | |
| n. Surfactants | X | | <0.1 | | | | | | 1 | MG/L | | | | |
| o. Aluminum, Total (7429 90-5) | X | | <0.05 | | | | | | 1 | MG/L | | | | |
| p. Barium, Total (7440 39-3) | | X | | | | | | | | | | | | |
| q. Boron, Total (7440 42 8) | | X | | | | | | | | | | | | |
| r. Cobalt, Total (7440 48-4) | | X | | | | | | | | | | | | |
| s. Iron, Total (7439 89 6) | X | | 0.08 | 0.8 | | | | | 1 | MG/L | LB/D | | | |
| t. Magnesium, Total (7439 95 4) | X | | 5.66 | 57 | | | | | 1 | MG/L | LB/D | | | |
| u. Molybdenum, Total (7439 98 7) | | X | | | | | | | | | | | | |
| v. Manganese, Total (7439 96 5) | X | | 0.044 | 0.44 | | | | | 1 | MG/L | LB/D | | | |
| w. Tin, Total (7440 31 5) | | X | | | | | | | | | | | | |
| TITANIUM | | X | | | | | | | | | | | | |

| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 007 |

Form Approved OMB No. 158-R0173

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, non-process wastewater outfalls, and non-required 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 to be absent. If you mark either columns 2-a or 2-b for any pollutant, you must provide the results of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table *(all seven pages)* for each outfall. See instructions for additional details and requirements.

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METALS, CYANIDE, AND TOTAL PHENOLS | | | | | | | | | | | | | | | |
| 1M. Antimony, Total (7440-36-0) | | X | | <0.1 | | | | | | 1 | MG/L | | | | |
| 2M. Arsenic, Total (7440-38-2) | | X | | <0.1 | | | | | | 1 | MG/L | | | | |
| 3M. Beryllium, Total, 7440-41-7) | | X | | <0.001 | | | | | | 1 | MG/L | | | | |
| 4M. Cadmium, Total (7440-43-9) | | X | | <0.005 | | | | | | 1 | MG/L | | | | |
| 5M. Chromium, Total (7440-47-3) | | X | | <0.05 | | | | | | 1 | MG/L | | | | |
| 6M. Copper, Total (7550-50-8) | | X | | <0.01 | | | | | | 1 | MG/L | | | | |
| 7M. Lead, Total (7439-97-6) | | X | | <0.05 | | | | | | 1 | MG/L | | | | |
| 8M. Mercury, Total (7439-97-6) | | X | | <0.2 | | | | | | 1 | µg/L | | | | |
| 9M. Nickel, Total (7440-02-0) | | X | | <0.05 | | | | | | 1 | MG/L | | | | |
| 10M. Selenium, Total (7782-49-2) | | X | | <0.1 | | | | | | 1 | MG/L | | | | |
| 11M. Silver, Total (7440-22-4) | | X | | <0.01 | | | | | | 1 | MG/L | | | | |
| 12M. Thallium, Total (7440-28-0) | | X | | <0.05 | | | | | | 1 | MG/L | | | | |
| 13M. Zinc Total (7440-66-6) | | X | | <0.01 | | | | | | 1 | MG/L | | | | |
| 14M. Cyanide, Total (57-12-5) | | X | | <0.02 | | | | | | 1 | MG/L | | | | |
| 15M. Phenols, Total | | X | | <10 | | | | | | 1 | µg/L | | | | |
| DIOXIN | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetrachlorodibenzo P-dioxin (1746-01-6) | | | X | DESCRIBE RESULTS | | | | | | | | | | | |

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. TEST INCLUDED | 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 AVG. 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 | | | <100 | | | | | | 1 | µg/L | | | | |
| 2V. Acrylonitrile (107-13-1) | X | | | <100 | | | | | | 1 | µg/L | | | | |
| 3V. Benzene (71-43-2) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 4V. Bis (Chloromethyl) Ether (542-88-1) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 5V. Bromoform (75-25-2) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 7V. Chlorobenzene (108-90-7) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 8V. Chlorodibromomethane (124-48-1) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 9V. Chloroethane (75-00-3) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 10V. 2-Chloroethylvinyl Ether (110-75-8) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 11V. Chloroform (67-66-3) | X | | | 14 | 0.14 | | | | | 1 | µg/L | lb/D | | | |
| 12V. Dichlorobromomethane (75-27-4) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 13V. Dichlorodifluoromethane (75-71-8) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 16V. 1,1-Dichloroethylene (75-35-4) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 17V. 1,2-Dichloropropane (78-87-5) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 18V. 1,2 Dichloropropylene (542-75-6) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 19V. Ethylbenzene (100-41-4) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 20V. Methyl Bromide (74-83-9) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 21V. Methyl Chloride (74-87-3) | X | | | <10 | | | | | | 1 | µg/L | | | | |



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CONTINUED FROM PAGE V-4

| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 007 |

Form Approved OMB No. 158-R0173

| 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) | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-09-2) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 23V. 1,1,2,2-Tetrachloroethane (79-34-5) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 24V. Tetrachloroethylene (127-18-4) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 25V. Toluene (108-88-3) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 26V. 1,2-Trans-Dichloroethylene (156-60-5) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 27V. 1,1,1-Trichloroethane (71-55-6) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 28V. 1,1,2-Trichloroethane (79-00-5) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 29V. Trichloroethylene (79-01-6) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 30V. Trichlorofluoromethane (75-69-4) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 31V. Vinyl Chloride (75-01-4) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| GC/MS FRACTION — ACID COMPOUNDS | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 4A. 4,6-Dinitro-O-Cresol (534-52-1) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 6A. 2-Nitrophenol (88-75-5) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 7A. 4 Nitrophenol (100-02-7) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 8A. P-Chloro-M-Cresol (59-50-7) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 9A. Pentachlorophenol (87-86-5) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 10A. Phenol (108-95-2) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 11A. 2,4,6-Trichlorophenol | X | | | <10 | | | | | | 1 | µg/L | | | | |

| NUMBER (if available) | a. TESTED | b. REQUIRED | c. REQUIRED | a. MAXIMUM DAILY VALUE (1) CONCENTRATION | (2) MASS | b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION | (2) MASS | c. LONG TERM AVG. VALUE (if available) (1) CONCENTRATION | (2) MASS | d. NO. OF ANALYSES | e. UNITS CONCENTRATION | f. MASS | g. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 2B. Acenaphtylene (208-96-8) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 3B. Anthracene (120-12-7) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 4B. Benzidine (92-87-5) | X | | | <50 | | | | | | 1 | µg/L | | | | |
| 5B. Benzo (a) Anthracene (56-55-3) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 6B. Benzo (a) Pyrene (50-32-8) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 8B. Benzo (ghi) Perylene (191-24-2) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 9B. Benzo (k) Fluoranthene (207-08-9) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 10B. Bis (2-Chloro-ethoxy) Methane (111-91-1) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 11B. Bis (2-Chloro-ethyl) Ether (111-44-4) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 12B. Bis (2-Chloro-isopropyl) Ether (39638-32-9) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 14B. 4-Bromo-phenyl Phenyl Ether (101-55-3) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 15B. Butyl Benzyl Phthalate (85-68-7) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 16B. 2-Chloro-naphthalene (91-58-7) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 18B. Chrysene (218-01-9) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 19B. Dibenzo (a,h) Anthracene (53-70-3) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 20B. 1,2-Dichloro-benzene (95-50-1) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 21B. 1,3-Dichloro-benzene (541-73-1) | X | | | <10 | | | | | | 1 | µg/L | | | | |

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| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 007 |

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| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. TREATABLE | b. PRESENT | c. PRESENT | 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 – BASE/NEUTRAL COMPOUNDS (continued) | | | | | | | | | | | | | | | |
| 22B. 1,4 Dichlorobenzene (106-46-7) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 23B. 3,3'-Dichlorobenzidine (91-94-1) | X | | | <25 | | | | | | 1 | µg/L | | | | |
| 24B. Diethyl Phthalate (84-66-2) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 25B. Dimethyl Phthalate (131-11-3) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 26B. Di-n-Butyl Phthalate (84-74-2) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 27B. 2,4 Dinitrotoluene (121-14-2) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 28B. 2,6-Dinitrotoluene (606-20-2) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 29B. Di-N-Octyl Phthalate (117-84-0) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 31B. Fluoranthene (206-44-0) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 32B. Fluorene (86-73-7) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 33B. Hexachlorobenzene (118-71-1) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 34B. Hexachlorobutadiene (87-68-3) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 35B. Hexachlorocyclopentadiene (77-47-4) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 36B. Hexachloroethane (67-72-1) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 37B. Indeno (1,2,3-cd) Pyrene (193-39-5) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 38B. Isophorone (78-59-1) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 39B. Naphthalene (91-20-3) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 40B. Nitrobenzene (98-95-3) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 41B. N-Nitrosodimethylamine (62-75-9) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 42B. N-Nitrosodi-n-propylamine | X | | | <10 | | | | | | 1 | µg/L | | | | |

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. TEST INCLUDED | 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 – BASE/NEUTRAL COMPOUNDS** *(continued)* | | | | | | | | | | | | | | | |
| 43B. N-Nitrosodiphenylamine (86-30-6) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 44B. Phenanthrene (85-01-8) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 45B. Pyrene (129-00-0) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| 46B. 1,2,4-Trichlorobenzene (120-82-1) | X | | | <10 | | | | | | 1 | µg/L | | | | |
| **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 Form 3510-2C (6-80)



CONTINUE ON PAGE V-9

CONTINUED FROM PAGE V-8

| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| AL564-0090002 | 007 |

Form Approved OMB No. 158-R0173

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK 'X' a. PRESENT IN BELIEVED PRESENT | b. BELIEVED ABSENT | 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 – 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 | | | | | | | | | | | | |



FOOTNOTES:

1- DATA FROM ONE GRAB SAMPLE COLLECTED AUGUST 18, 1986.

2- DATA TAKEN FROM DMRs SUBMITTED TO ADEM FOR THE PERIOD AUGUST 1985 – JULY 1986.

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 I of Form 1)*: AL5640090002

*Form Approved OMB No. 158-R0173*

OUTFALL NO. 009

## 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 | (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 | 3. UNITS *(specify if blank)* a. CONCENTRATION | b. MASS | 4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) 1j | NO | DATA | | | | | | | | | | |
| b. Chemical Oxygen Demand (COD) 1j | NO | DATA | | | | | | | | | | |
| c. Total Organic Carbon (TOC) 1j | NO | DATA | | | | | | | | | | |
| d. Total Suspended Solids (TSS) 2j | 30 | 18.9 | 16 | 2.6 | 7.0 | 0.56 | 7 | MG/L | LB/D | | | |
| e. Ammonia (as N) 1j | NO | DATA | | | | | | | | | | |
| f. Flow 2j | VALUE 0.0754 | | VALUE 0.0196 | | VALUE 0.007 | | 25 | MGD | | VALUE | | |
| g. Temperature (winter) 1j | VALUE NO DATA | | VALUE | | VALUE | | | °C | | VALUE | | |
| h. Temperature (summer) 1j | VALUE NO DATA | | VALUE | | VALUE | | | °C | | VALUE | | |
| i. pH 1j | MINIMUM NO | MAXIMUM DATA | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. 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 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | | | | | | | | | | | | | | |
| b. Chlorine, Total Residual | | | | | | | | | | | | | | |
| c. Color | | | | | | | | | | | | | | |
| d. Fecal Coliform | | | | | | | | | | | | | | |
| e. Fluoride (16984-48-8) | | | | | | | | | | | | | | |
| f. Nitrate-Nitrite *(as N)* | | | | | | | | | | | | | | |



CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. PRESENT | b. 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) | | | | | | | | | | | | | | |
| h. Oil and Grease 21 | X | | <5.0 | | <5.0 | | <5.0 | | 5 | MG/L | | | | |
| i. Phosphorus (as P), Total (7723 14 0) | | | | | | | | | | | | | | |
| j. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | | | | | | | | | | | | | |
| (2) Beta, Total | | | | | | | | | | | | | | |
| (3) Radium, Total | | | | | | | | | | | | | | |
| (4) Radium 226, Total | | | | | | | | | | | | | | |
| k. Sulfate (as $SO_4$) (14808 79-8) | | | | | | | | | | | | | | |
| l. Sulfide (as S) | | | | | | | | | | | | | | |
| m. Sulfite (as $SO_3$) (14265-45-3) | | | | | | | | | | | | | | |
| n. Surfactants | | | | | | | | | | | | | | |
| o. Aluminum, Total (7429 90-5) | | | | | | | | | | | | | | |
| p. Barium, Total (7440 39-3) | | | | | | | | | | | | | | |
| q. Boron, Total (7440 42 8) | | | | | | | | | | | | | | |
| r. Cobalt, Total (7440 48-4) | | | | | | | | | | | | | | |
| s. Iron, Total (7439 89 6) | | | | | | | | | | | | | | |
| t. Magnesium, Total (7439 95-4) | | | | | | | | | | | | | | |
| u. Molybdenum, Total (7439 98-7) | | | | | | | | | | | | | | |
| v. Manganese, Total (7439 96 5) | | | | | | | | | | | | | | |
| w. Tin, Total (7440 31 5) | | | | | | | | | | | | | | |

| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 009 |

Form Approved OMB No. 158-R0173

CONTINUED FROM PAGE V-8

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. TEST INCLUDED | 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 — PESTICIDES (continued) | | | | | | | | | | | | | | | |
| 17P. Heptachlor Epoxide (1024-57-3) | | | | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | | | | | | | | | | | | | |



FOOTNOTES:

1- DUE TO CONSTRUCTION SLOWDOWN, THIS OUTFALL HAS TEMPORARILY CEASED TO DISCHARGE. THEREFORE SAMPLE FOR THESE ANALYSES COULD NOT BE COLLECTED.

2- DATA TAKEN FROM DMRS SUBMITTED TO ADEM FOR THE PERIOD MAY 1985 - OCTOBER 1985.

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): AL5640090002

Form Approved OMB No. 158-R0173

OUTFALL NO: 010

## 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 | (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 | 3. UNITS (specify if blank) a. CONCENTRATION | b. MASS | 4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) 1 | NO | DATA | | | | | | | | | | |
| b. Chemical Oxygen Demand (COD) 1 | NO | DATA | | | | | | | | | | |
| c. Total Organic Carbon (TOC) 1 | NO | DATA | | | | | | | | | | |
| d. Total Suspended Solids (TSS) 2 | 1.0 | 0.43 | 1.0 | 0.17 | 1.0 | 0.17 | 2 | MG/L | LB/D | | | |
| e. Ammonia (as N) 1 | NO | DATA | | | | | | | | | | |
| f. Flow 2 | VALUE 0.0512 | | VALUE 0.0209 | | VALUE 0.0209 | | 4 | MGD | | VALUE | | |
| g. Temperature (winter) 1 | VALUE NO DATA | | VALUE | | VALUE | | | °C | | VALUE | | |
| h. Temperature (summer) 1 | VALUE NO DATA | | VALUE | | VALUE | | | °C | | VALUE | | |
| i. pH 1 | MINIMUM NO | MAXIMUM DATA | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. 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 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | | | | | | | | | | | | | | |
| b. Chlorine, Total Residual | | | | | | | | | | | | | | |
| c. Color | | | | | | | | | | | | | | |
| d. Fecal Coliform | | | | | | | | | | | | | | |
| e. Fluoride (16984-48-8) | | | | | | | | | | | | | | |
| f. Nitrate-Nitrite (as N) | | | | | | | | | | | | | | |



CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. PRESENT | 2. MARK "X" b. ABSENT | 3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION | a. (2) MASS | b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION | b. (2) MASS | c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION | c. (2) MASS | d. NO. OF ANALYSES | 4. UNITS a. CONCENTRATION | 4. UNITS b. MASS | 5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | a. (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| g. Nitrogen, Total Organic (as N) | | | | | | | | | | | | | | |
| h. Oil and Grease 21 | X | | <5.0 | | | | | | 1 | MG/L | | | | |
| i. Phosphorus (as P), Total (7723 14 0) | | | | | | | | | | | | | | |
| j. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | | | | | | | | | | | | | |
| (2) Beta, Total | | | | | | | | | | | | | | |
| (3) Radium, Total | | | | | | | | | | | | | | |
| (4) Radium 226, Total | | | | | | | | | | | | | | |
| k. Sulfate (as $SO_4$) (14808 79-8) | | | | | | | | | | | | | | |
| l. Sulfide (as S) | | | | | | | | | | | | | | |
| m. Sulfite (as $SO_3$) (14265 45 3) | | | | | | | | | | | | | | |
| n. Surfactants | | | | | | | | | | | | | | |
| o. Aluminum, Total (7429 90-5) | | | | | | | | | | | | | | |
| p. Barium, Total (7440 39-3) | | | | | | | | | | | | | | |
| q. Boron, Total (7440 42 8) | | | | | | | | | | | | | | |
| r. Cobalt, Total (7440 48-4) | | | | | | | | | | | | | | |
| s. Iron, Total (7439 89 6) | | | | | | | | | | | | | | |
| t. Magnesium, Total (7439 95 4) | | | | | | | | | | | | | | |
| u. Molybdenum, Total (7439 98-7) | | | | | | | | | | | | | | |
| v. Manganese, Total (7439 96 5) | | | | | | | | | | | | | | |
| w. Tin, Total (7440 31 5) | | | | | | | | | | | | | | |

| EPA I.D. NUMBER (copy from Item I of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 010 |

Form Approved OMB No. 158-R0173

CONTINUED FROM PAGE V-8

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. PRESENT IN EFFLUENT | b. PRESENT IN RECEIVING WATER | 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 – PESTICIDES (continued) | | | | | | | | | | | | | | | |
| 17P. Heptachlor Epoxide (1024 57-3) | | | | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | | | | | | | | | | | | | |
| 23P. PCB-1260 (11096 82-5) | | | | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | | | | | | | | | | | | | |



FOOTNOTES:

1- DUE TO CONSTRUCTION SLOWDOWN, THIS OUTFALL HAS TEMPORARILY CEASED TO DISCHARGE. THEREFORE SAMPLES FOR THESE ANALYSES COULD NOT BE COLLECTED.

2- DATA TAKEN FROM DMR SUBMITTED TO ADEM FOR THE MONTH OF MAY 1985.

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)*: AL5640090002

*Form Approved OMB No. 158-R0173*

OUTFALL NO: 012

## 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 | (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 | 3. UNITS *(specify if blank)* a. CONCENTRATION | b. MASS | 4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) 1) | 6.5 | 0.108 | 3.8 | 0.075 | <1.7 | | 24 | MG/L | LB/D | | | |
| b. Chemical Oxygen Demand (COD) 2) | 6.0 | 0.6 | | | | | 1 | MG/L | LB/D | | | |
| c. Total Organic Carbon (TOC) 2) | 2.5 | 0.3 | | | | | 1 | MG/L | LB/D | | | |
| d. Total Suspended Solids (TSS) 1) | 8.0 | <0.068 | <4.5 | | <1.5 | | 24 | MG/L | LB/D | | | |
| e. Ammonia (as N) 2) | <0.01 | | | | | | 1 | MG/L | | | | |
| f. Flow 1) | VALUE 0.0126 | | VALUE 0.0036 | | VALUE 0.0017 | | 241 | MGD | | VALUE | | |
| g. Temperature *(winter)* | VALUE | | VALUE | | VALUE | | | °C | | VALUE | | |
| h. Temperature *(summer)* 2) | VALUE 24.4 | | VALUE | | VALUE | | | °C | | VALUE | | |
| i. pH 2) | MINIMUM NO | MAXIMUM DATA | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. 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 | b. BELIEVED ABSENT | 3. EFFLUENT 2) 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | | X | | | | | | | | | | | | |
| b. Chlorine, Total Residual | | X | | | | | | | | | | | | |
| c. Color | X | | 7.0 | | | | | | 1 | PCU | | | | |
| d. Fecal Coliform | X | | <1 | | | | | | 1 | COLONIES/100 ML | | | | |
| e. Fluoride (16984-48-8) | | X | | | | | | | | | | | | |
| f. Nitrate-Nitrite (as N) | X | | 40 | 4.2 | | | | | 1 | MG/L | LB/D | | | |



CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. PRESUMED PRESENT | 2. MARK "X" b. PRESUMED 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 AVG. VALUE (if available) (1) CONCENTRATION | 3. EFFLUENT c. LONG TERM AVG. VALUE (if available) (2) MASS | d. NO. OF ANALYSES | 4. UNITS a. CONCENTRATION | 4. UNITS b. MASS | 5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | 5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS | 5. INTAKE (optional) b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| g. Nitrogen, Total Organic (as N) | X | | 0.07 | 0.007 | | | | | 1 | MG/L | LB/D | | | |
| h. Oil and Grease | X | | <5.0 | | | | | | 1 | MG/L | | | | |
| i. Phosphorus (as P), Total (7723 14 0) | X | | 1.0 | 0.11 | | | | | 1 | MG/L | LB/D | | | |
| j. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium, Total | | X | | | | | | | | | | | | |
| (4) Radium 226, Total | | X | | | | | | | | | | | | |
| k. Sulfate (as $SO_4$) (14808 79-8) | X | | 57 | 6.0 | | | | | 1 | MG/L | LB/D | | | |
| l. Sulfide (as S) | X | | 0.02 | 0.002 | | | | | 1 | MG/L | LB/D | | | |
| m. Sulfite (as $SO_3$) (14265-45-3) | X | | <2.0 | | | | | | 1 | MG/L | | | | |
| n. Surfactants | X | | <0.1 | | | | | | 1 | MG/L | | | | |
| o. Aluminum, Total (7429 90-5) | | X | | | | | | | | | | | | |
| p. Barium, Total (7440 39-3) | | X | | | | | | | | | | | | |
| q. Boron, Total (7440 42 8) | | X | | | | | | | | | | | | |
| r. Cobalt, Total (7440-48-4) | | X | | | | | | | | | | | | |
| s. Iron, Total (7439 89 6) | | X | | | | | | | | | | | | |
| t. Magnesium, Total (7439 95 4) | | X | | | | | | | | | | | | |
| u. Molybdenum, Total (7439 98 7) | | X | | | | | | | | | | | | |
| v. Manganese, Total (7439 96 5) | | X | | | | | | | | | | | | |
| w. Tin, Total (7440 31 5) | | X | | | | | | | | | | | | |

| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 012 |

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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, non-process wastewater outfalls, and non-required 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 to be absent. If you mark either columns 2-a or 2-b for any pollutant, you must provide the results of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table *(all seven pages)* for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE, AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony, Total (7440-36-0) | | | X | | | | | | | | | | | | |
| 2M. Arsenic, Total (7440-38-2) | | | X | | | | | | | | | | | | |
| 3M. Beryllium, Total, 7440-41-7) | | | X | | | | | | | | | | | | |
| 4M. Cadmium, Total (7440-43-9) | | | X | | | | | | | | | | | | |
| 5M. Chromium, Total (7440-47-3) | | | X | | | | | | | | | | | | |
| 6M. Copper, Total (7550-50-8) | | | X | | | | | | | | | | | | |
| 7M. Lead, Total (7439-97-6) | | | X | | | | | | | | | | | | |
| 8M. Mercury, Total (7439-97-6) | | | X | | | | | | | | | | | | |
| 9M. Nickel, Total (7440-02-0) | | | X | | | | | | | | | | | | |
| 10M. Selenium, Total (7782-49-2) | | | X | | | | | | | | | | | | |
| 11M. Silver, Total (7440-22-4) | | | X | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | | | X | | | | | | | | | | | | |
| 13M. Zinc, Total (7440-66-6) | | | X | | | | | | | | | | | | |
| 14M. Cyanide, Total (57-12-5) | | | X | | | | | | | | | | | | |
| 15M. Phenols, Total | | X | | <2.0 | | | | | | 1 | µg/L | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra chlorodibenzo P-dioxin (1746-01-6) | | | 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 | (2) MASS | b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION | (2) MASS | c. LONG TERM AVG. VALUE (if available) (1) CONCENTRATION | (2) MASS | d. NO. OF ANALYSES | 4. UNITS a. CONCENTRATION | b. MASS | 5. INTAKE a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – VOLATILE COMPOUNDS | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | | | X | | | | | | | | | | | | |
| 2V. Acrylonitrile (107-13-1) | | | X | | | | | | | | | | | | |
| 3V. Benzene (71-43-2) | | | X | | | | | | | | | | | | |
| 4V. Bis (Chloromethyl) Ether (542-88-1) | | | X | | | | | | | | | | | | |
| 5V. Bromoform (75-25-2) | | | X | | | | | | | | | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | X | | | | | | | | | | | | |
| 7V. Chlorobenzene (108-90-7) | | | X | | | | | | | | | | | | |
| 8V. Chlorodibromomethane (124-48-1) | | | X | | | | | | | | | | | | |
| 9V. Chloroethane (75-00-3) | | | X | | | | | | | | | | | | |
| 10V. 2-Chloroethylvinyl Ether (110-75-8) | | | X | | | | | | | | | | | | |
| 11V. Chloroform (67-66-3) | | | X | | | | | | | | | | | | |
| 12V. Dichlorobromomethane (75-27-4) | | | X | | | | | | | | | | | | |
| 13V. Dichlorodifluoromethane (75-71-8) | | | X | | | | | | | | | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | X | | | | | | | | | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | X | | | | | | | | | | | | |
| 16V. 1,1-Dichloroethylene (75-35-4) | | | X | | | | | | | | | | | | |
| 17V. 1,2-Dichloropropane (78-87-5) | | | X | | | | | | | | | | | | |
| 18V. 1,2-Dichloropropylene (542-75-6) | | | X | | | | | | | | | | | | |
| 19V. Ethylbenzene (100-41-4) | | | X | | | | | | | | | | | | |
| 20V. Methyl Bromide (74-83-9) | | | X | | | | | | | | | | | | |
| 21V. Methyl Chloride (74-87-3) | | | X | | | | | | | | | | | | |



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EPA I.D. NUMBER (copy from Item 1 of Form 1): AL5640090002

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| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK 'X' a. TEST INCL. ACQUIRED | 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)* | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-09-2) | | | X | | | | | | | | | | | | |
| 23V. 1,1,2,2-Tetrachloroethane (79-34-5) | | | X | | | | | | | | | | | | |
| 24V. Tetrachloroethylene (127-18-4) | | | X | | | | | | | | | | | | |
| 25V. Toluene (108-88-3) | | | X | | | | | | | | | | | | |
| 26V. 1,2-Trans-Dichloroethylene (156-60-5) | | | X | | | | | | | | | | | | |
| 27V. 1,1,1-Trichloroethane (71-55-6) | | | X | | | | | | | | | | | | |
| 28V. 1,1,2-Trichloroethane (79-00-5) | | | X | | | | | | | | | | | | |
| 29V. Trichloroethylene (79-01-6) | | | X | | | | | | | | | | | | |
| 30V. Trichlorofluoromethane (75-69-4) | | | X | | | | | | | | | | | | |
| 31V. Vinyl Chloride (75-01-4) | | | X | | | | | | | | | | | | |
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | X | | | | | | | | | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | X | | | | | | | | | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | X | | | | | | | | | | | | |
| 4A. 4,6-Dinitro-O-Cresol (534-52-1) | | | X | | | | | | | | | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | X | | | | | | | | | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | X | | | | | | | | | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | X | | | | | | | | | | | | |
| 8A. P-Chloro-M-Cresol (59-50-7) | | | X | | | | | | | | | | | | |
| 9A. Pentachlorophenol (87-86-5) | | | X | | | | | | | | | | | | |
| 10A. Phenol (108-95-2) | | | X | | | | | | | | | | | | |

| NUMBER (if available) | a. Testing required | b. Believed present | c. Believed absent | 8. MAXIMUM DAILY VALUE (a) CONCENTRATION | (b) MASS | 9. MAXIMUM 30 DAY VALUE (if available) (a) CONCENTRATION | (b) MASS | 10. LONG TERM AVG. VALUE (if available) (a) CONCENTRATION | (b) MASS | c. NO. OF ANALYSES | 11. UNITS a. CONCENTRATION | b. MASS | 12. INTAKE (optional) a. LONG TERM AVERAGE VALUE (a) CONCENTRATION | (b) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | X | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | X | | | | | | | | | | | | |
| 3B. Anthracene (120-12-7) | | | X | | | | | | | | | | | | |
| 4B. Benzidine (92-87-5) | | | X | | | | | | | | | | | | |
| 5B. Benzo (a) Anthracene (56-55-3) | | | X | | | | | | | | | | | | |
| 6B. Benzo (a) Pyrene (50-32-8) | | | X | | | | | | | | | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | | | X | | | | | | | | | | | | |
| 8B. Benzo (ghi) Perylene (191-24-2) | | | X | | | | | | | | | | | | |
| 9B. Benzo (k) Fluoranthene (207-08-9) | | | X | | | | | | | | | | | | |
| 10B. Bis (2-Chloro-ethoxy) Methane (111-91-1) | | | X | | | | | | | | | | | | |
| 11B. Bis (2-Chloro-ethyl) Ether (111-44-4) | | | X | | | | | | | | | | | | |
| 12B. Bis (2-Chloro-isopropyl) Ether (39638-32-9) | | | X | | | | | | | | | | | | |
| 13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7) | | | X | | | | | | | | | | | | |
| 14B. 4-Bromo-phenyl Phenyl Ether (101-55-3) | | | X | | | | | | | | | | | | |
| 15B. Butyl Benzyl Phthalate (85-68-7) | | | X | | | | | | | | | | | | |
| 16B. 2-Chloro-nephthalene (91-58-7) | | | X | | | | | | | | | | | | |
| 17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3) | | | X | | | | | | | | | | | | |
| 18B. Chrysene (218-01-9) | | | X | | | | | | | | | | | | |
| 19B. Dibenzo (a,h) Anthracene (53-70-3) | | | X | | | | | | | | | | | | |
| 20B. 1,2-Dichloro-benzene (95-50-1) | | | X | | | | | | | | | | | | |
| 21B. 1,3-Dichloro-benzene (541-73-1) | | | X | | | | | | | | | | | | |

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EPA I.D. NUMBER (copy from Item 1 of Form 1): AL5640090002

OUTFALL NUMBER: 012

Form Approved OMB No. 158-R0173

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. Believed Present | b. Believed Absent | c. Believed Present, Not Analyzed | 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 – BASE/NEUTRAL COMPOUNDS (continued) | | | | | | | | | | | | | | | |
| 22B. 1,4 Dichlorobenzene (106-46-7) | | | X | | | | | | | | | | | | |
| 23B. 3,3'-Dichlorobenzidine (91-94-1) | | | X | | | | | | | | | | | | |
| 24B. Diethyl Phthalate (84-66-2) | | | X | | | | | | | | | | | | |
| 25B. Dimethyl Phthalate (131-11-3) | | | X | | | | | | | | | | | | |
| 26B. Di-N-Butyl Phthalate (84-74-2) | | | X | | | | | | | | | | | | |
| 27B. 2,4-Dinitrotoluene (121-14-2) | | | X | | | | | | | | | | | | |
| 28B. 2,6-Dinitrotoluene (606-20-2) | | | X | | | | | | | | | | | | |
| 29B. Di-N-Octyl Phthalate (117-84-0) | | | X | | | | | | | | | | | | |
| 30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7) | | | X | | | | | | | | | | | | |
| 31B. Fluoranthene (206-44-0) | | | X | | | | | | | | | | | | |
| 32B. Fluorene (86-73-7) | | | X | | | | | | | | | | | | |
| 33B. Hexachlorobenzene (118-71-1) | | | X | | | | | | | | | | | | |
| 34B. Hexachlorobutadiene (87-68-3) | | | X | | | | | | | | | | | | |
| 35B. Hexachlorocyclopentadiene (77-47-4) | | | X | | | | | | | | | | | | |
| 36B. Hexachloroethane (67-72-1) | | | X | | | | | | | | | | | | |
| 37B. Indeno (1,2,3-cd) Pyrene (193-39-5) | | | X | | | | | | | | | | | | |
| 38B. Isophorone (78-59-1) | | | X | | | | | | | | | | | | |
| 39B. Naphthalene (91-20-3) | | | X | | | | | | | | | | | | |
| 40B. Nitrobenzene (98-95-3) | | | X | | | | | | | | | | | | |
| 41B. N-Nitrosodimethylamine (62-75-9) | | | X | | | | | | | | | | | | |
| 42B. [illegible] | | | X | | | | | | | | | | | | |

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. TREATABLE BY PROCESS | 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 AVRG. VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** *(continued)* | | | | | | | | | | | | | | | |
| 43B. N-Nitrosodiphenylamine (86-30-6) | | | X | | | | | | | | | | | | |
| 44B. Phenanthrene (85-01-8) | | | X | | | | | | | | | | | | |
| 45B. Pyrene (129-00-0) | | | X | | | | | | | | | | | | |
| 46B. 1,2,4-Trichlorobenzene (120-82-1) | | | X | | | | | | | | | | | | |
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (319-85-7) | | | X | | | | | | | | | | | | |
| 4P. γ-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (80-57-1) | | | 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 | | | | | | | | | | | | |

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| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
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| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. TEST INCLUDED | 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 – 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 | | | | | | | | | | | | |



FOOTNOTES:

1- DATA TAKEN FROM DMRs SUBMITTED TO ADEM FOR THE PERIOD AUGUST 1985 – JULY 1986.

2- DATA FROM ONE GRAB SAMPLE COLLECTED AUGUST 18, 1986.

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): AL5640090002

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

OUTFALL 014

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) 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 | 3. UNITS (specify if blank) a. CONCENTRATION | b. MASS | 4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) 1 | NO | DATA | | | | | | | | | | |
| b. Chemical Oxygen Demand (COD) 1 | NO | DATA | | | | | | | | | | |
| c. Total Organic Carbon (TOC) 1 | NO | DATA | | | | | | | | | | |
| d. Total Suspended Solids (TSS) 1 | NO | DATA | | | | | | | | | | |
| e. Ammonia (as N) 1 | NO | DATA | | | | | | | | | | |
| f. Flow 2 | VALUE 20.16 | | VALUE 20.16 | | VALUE 15.2 | | 21 | MGD | | VALUE | | |
| g. Temperature (winter) 1 | VALUE NO DATA | | VALUE | | VALUE | | | °C | | VALUE | | |
| h. Temperature (summer) 1 | VALUE NO DATA | | VALUE | | VALUE | | | °C | | VALUE | | |
| i. pH 1 | MINIMUM NO | MAXIMUM DATA | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mar column 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additiona details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. PRESENT | b. 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | | X | | | | | | | | | | | | |
| b. Chlorine, Total Residual 2 | X | | 0.80 | <72 | <0.10 | | <0.06 | | 21 | MG/L | LB/D | | | |
| c. Color | X | | | | | | | | | | | | | |
| d. Fecal Coliform | X | | | | | | | | | | | | | |
| e. Fluoride (16984-48-8) | | X | | | | | | | | | | | | |
| f. Nitrate-Nitrite (as N) | X | | | | | | | | | | | | | |

ITEM V-B CONTINUED FROM FRONT

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. PRESENT | b. 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 | | | | | | | | | | | | | |
| h. Oil and Grease | X | | | | | | | | | | | | | |
| i. Phosphorus (as P), Total (7723 14 0) | X | | | | | | | | | | | | | |
| j. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium, Total | | X | | | | | | | | | | | | |
| (4) Radium 226, Total | | X | | | | | | | | | | | | |
| k. Sulfate (as $SO_4$) (14808 79-8) | X | | | | | | | | | | | | | |
| l. Sulfide (as S) | X | | | | | | | | | | | | | |
| m. Sulfite (as $SO_3$) (14265-45-3) | X | | | | | | | | | | | | | |
| n. Surfactants | X | | | | | | | | | | | | | |
| o. Aluminum, Total (7429 90 5) | X | | | | | | | | | | | | | |
| p. Barium, Total (7440 39-3) | | X | | | | | | | | | | | | |
| q. Boron, Total (7440 42 8) | | X | | | | | | | | | | | | |
| r. Cobalt, Total (7440 48-4) | | X | | | | | | | | | | | | |
| s. Iron, Total (7439 89 6) | X | | | | | | | | | | | | | |
| t. Magnesium, Total (7439 95 4) | X | | | | | | | | | | | | | |
| u. Molybdenum, Total (7439-98-7) | | X | | | | | | | | | | | | |
| v. Manganese, Total (7439 96 5) | X | | | | | | | | | | | | | |
| w. Tin, Total (7440 31 5) | | X | | | | | | | | | | | | |

| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 014 |

CONTINUED FROM PAGE 3 OF FORM 2-C

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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, non-process wastewater outfalls, and non-required 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 to be absent. If you mark either columns 2-a or 2-b for any pollutant, you must provide the results of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table *(all seven 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. Treatment equipment | b. Reasonably expected | 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. ANALYSE |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| **METALS, CYANIDE, AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony, Total (7440-36-0) | | X | | | | | | | | | | | | | |
| 2M. Arsenic, Total (7440-38-2) | | X | | | | | | | | | | | | | |
| 3M. Beryllium, Total, 7440-41-7) | | X | | | | | | | | | | | | | |
| 4M. Cadmium, Total (7440-43-9) | | X | | | | | | | | | | | | | |
| 5M. Chromium, Total (7440-47-3) | | X | | | | | | | | | | | | | |
| 6M. Copper, Total (7550-50-8) | | X | | | | | | | | | | | | | |
| 7M. Lead, Total (7439-97-6) | | X | | | | | | | | | | | | | |
| 8M. Mercury, Total (7439-97-6) | | X | | | | | | | | | | | | | |
| 9M. Nickel, Total (7440-02-0) | | X | | | | | | | | | | | | | |
| 10M. Selenium, Total (7782-49-2) | | X | | | | | | | | | | | | | |
| 11M. Silver, Total (7440-22-4) | | X | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | | X | | | | | | | | | | | | | |
| 13M. Zinc, Total (7440-66-6) | | X | | | | | | | | | | | | | |
| 14M. Cyanide, Total (57-12-5) | | X | | | | | | | | | | | | | |
| 15M. Phenols, Total | | X | | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetrachlorodibenzo P-Dioxin (1746-01-6) | | | X | DESCRIBE RESULTS | | | | | | | | | | | |

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



CONTINUE ON PAGE V-5

CONTINUED FROM PAGE V-4

EPA I.D. NUMBER (copy from Item I of Form 1): AL5640090002

OUTFALL NUMBER: 014

Form Approved OMB No. 158-R0173

| 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. ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – VOLATILE COMPOUNDS (continued) | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-09-2) | X | | | | | | | | | | | | | | |
| 23V. 1,1,2,2-Tetrachloroethane (79-34-5) | X | | | | | | | | | | | | | | |
| 24V. Tetrachloroethylene (127-18-4) | X | | | | | | | | | | | | | | |
| 25V. Toluene (108-88-3) | X | | | | | | | | | | | | | | |
| 26V. 1,2-Trans-Dichloroethylene (156-60-5) | X | | | | | | | | | | | | | | |
| 27V. 1,1,1-Trichloroethane (71-55-6) | X | | | | | | | | | | | | | | |
| 28V. 1,1,2-Trichloroethane (79-00-5) | X | | | | | | | | | | | | | | |
| 29V. Trichloroethylene (79-01-6) | X | | | | | | | | | | | | | | |
| 30V. Trichlorofluoromethane (75-69-4) | X | | | | | | | | | | | | | | |
| 31V. Vinyl Chloride (75-01-4) | X | | | | | | | | | | | | | | |
| GC/MS FRACTION – ACID COMPOUNDS | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | X | | | | | | | | | | | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | X | | | | | | | | | | | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | X | | | | | | | | | | | | | | |
| 4A. 4,6-Dinitro-O-Cresol (534-52-1) | X | | | | | | | | | | | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | X | | | | | | | | | | | | | | |
| 6A. 2-Nitrophenol (88-75-5) | X | | | | | | | | | | | | | | |
| 7A. 4-Nitrophenol (100-02-7) | X | | | | | | | | | | | | | | |
| 8A. P-Chloro-M-Cresol (59-50-7) | X | | | | | | | | | | | | | | |
| 9A. Pentachlorophenol (87-86-5) | X | | | | | | | | | | | | | | |
| 10A. Phenol (108-95-2) | X | | | | | | | | | | | | | | |
| 11A. 2,4,6-Tri | X | | | | | | | | | | | | | | |

| NUM (if ava | A. TEST INCLUDED REQUIRED BY PERMIT | 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 | c. LONG TERM AVG. VALUE (if available) (1) CONCENTRATION | (2) MASS | d. NO. OF ANALYSES | 4. UNITS a. CONCENTRATION | b. MASS | 5. INTAK (if available) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | X | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | X | | | | | | | | | | | | | | |
| 3B. Anthracene (120-12-7) | X | | | | | | | | | | | | | | |
| 4B. Benzidine (92-87-5) | X | | | | | | | | | | | | | | |
| 5B. Benzo (a) Anthracene (56-55-3) | X | | | | | | | | | | | | | | |
| 6B. Benzo (a) Pyrene (50-32-8) | X | | | | | | | | | | | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | X | | | | | | | | | | | | | | |
| 8B. Benzo (ghi) Perylene (191-24-2) | X | | | | | | | | | | | | | | |
| 9B. Benzo (k) Fluoranthene (207-08-9) | X | | | | | | | | | | | | | | |
| 10B. Bis (2-Chloro-ethoxy) Methane (111-91-1) | X | | | | | | | | | | | | | | |
| 11B. Bis (2-Chloro-ethyl) Ether (111-44-4) | X | | | | | | | | | | | | | | |
| 12B. Bis (2-Chloro-isopropyl) Ether (39638-32-9) | X | | | | | | | | | | | | | | |
| 13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7) | X | | | | | | | | | | | | | | |
| 14B. 4 Bromo-phenyl Phenyl Ether (101-55-3) | X | | | | | | | | | | | | | | |
| 15B. Butyl Benzyl Phthalate (85-68-7) | X | | | | | | | | | | | | | | |
| 16B. 2-Chloro-naphthalene (91-58-7) | X | | | | | | | | | | | | | | |
| 17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3) | X | | | | | | | | | | | | | | |
| 18B. Chrysene (218-01-9) | X | | | | | | | | | | | | | | |
| 19B. Dibenzo (a,h) Anthracene (53-70-3) | X | | | | | | | | | | | | | | |
| 20B. 1,2-Dichloro-benzene (95-50-1) | X | | | | | | | | | | | | | | |
| 21B. 1,3-Dichloro-benzene (541-73-1) | X | | | | | | | | | | | | | | |

EPA Form 3510-2C (8-80)



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| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 014 |

Form Approved OMB No. 158-R0173

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK 'X' a. PRESENT IN EFFLUENT | b. PRESENT IN RECEIVING WATER | c. PRESENT IN BOTH | 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 – BASE/NEUTRAL COMPOUNDS (continued) | | | | | | | | | | | | | | | |
| 22B. 1,4 Dichlorobenzene (106-46-7) | X | | | | | | | | | | | | | | |
| 23B. 3,3'-Dichlorobenzidine (91-94-1) | X | | | | | | | | | | | | | | |
| 24B. Diethyl Phthalate (84-66-2) | X | | | | | | | | | | | | | | |
| 25B. Dimethyl Phthalate (131-11-3) | X | | | | | | | | | | | | | | |
| 26B. Di-N-Butyl Phthalate (84-74-2) | X | | | | | | | | | | | | | | |
| 27B. 2,4 Dinitrotoluene (121-14-2) | X | | | | | | | | | | | | | | |
| 28B. 2,6 Dinitrotoluene (606-20-2) | X | | | | | | | | | | | | | | |
| 29B. Di-N-Octyl Phthalate (117-84-0) | X | | | | | | | | | | | | | | |
| 30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7) | X | | | | | | | | | | | | | | |
| 31B. Fluoranthene (206-44-0) | X | | | | | | | | | | | | | | |
| 32B. Fluorene (86-73-7) | X | | | | | | | | | | | | | | |
| 33B. Hexachlorobenzene (118-71-1) | X | | | | | | | | | | | | | | |
| 34B. Hexachlorobutadiene (87-68-3) | X | | | | | | | | | | | | | | |
| 35B. Hexachlorocyclopentadiene (77-47-4) | X | | | | | | | | | | | | | | |
| 36B. Hexachloroethane (67-72-1) | X | | | | | | | | | | | | | | |
| 37B. Indeno (1,2,3-cd) Pyrene (193-39-5) | X | | | | | | | | | | | | | | |
| 38B. Isophorone (78-59-1) | X | | | | | | | | | | | | | | |
| 39B. Naphthalene (91-20-3) | X | | | | | | | | | | | | | | |
| 40B. Nitrobenzene (98-95-3) | X | | | | | | | | | | | | | | |
| 41B. N-Nitrosodimethylamine (62-75-9) | X | | | | | | | | | | | | | | |
| 42B. [illegible] | X | | | | | | | | | | | | | | |

| [illegible] AND NU[illegible] (if available) | 2. MARK "X" a. TEST INCLUDED 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 – BASE/NEUTRAL COMPOUNDS** *(continued)* | | | | | | | | | | | | | | | |
| 43B. N-Nitrosodiphenylamine (86-30-6) | X | | | | | | | | | | | | | | |
| 44B. Phenanthrene (85-01-8) | X | | | | | | | | | | | | | | |
| 45B. Pyrene (129-00-0) | X | | | | | | | | | | | | | | |
| 46B. 1,2,4-Trichlorobenzene (120-82-1) | X | | | | | | | | | | | | | | |
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (319-85-7) | | | X | | | | | | | | | | | | |
| 4P. γ-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | X | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | X | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P. Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |

EPA Form 3510-2C (6-80)



CONTINUE ON PAGE V-9

CONTINUED FROM PAGE V-8

| EPA I.D. NUMBER (copy from Item I of Form 1) | OUTFALL NUMBER |
|---|---|
| AL5640090002 | 014 |

Form Approved OMB No. 158-R0173

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK "X" a. TEST INFO. 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 – 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 | | | | | | | | | | | | |



FOOTNOTES:

1- DUE TO CONSTRUCTION SLOWDOWN, THIS DISCHARGE HAS TEMPORARILY CEASED. THEREFORE SAMPLES FOR THESE ANALYSES COULD NOT BE COLLECTED. DATA VALUES SHOULD BE COMPARABLE TO THOSE PRESENTED FOR OUTFALL NO. 003.

2- DATA TAKEN FROM DMRS SUBMITTED TO ADEM FOR THE PERIOD JULY 1984 - JUNE 1985.

ENCLOSURE 2

PROPOSED CHANGES TO THE BELLEFONTE NUCLEAR PLANT
NPDES PERMIT NO. AL0024635

1. DSN 001A

For clarification purposes, change the sample type for flow monitoring from totalizer to pump log. Totalizer readings are applicable only to the sewage treatment plant (STP) effluent over a 60° V-notch weir. Under this discharge scheme, phosphate waste will be pumped from the storage pond to the STP effluent pump downstream of the V-notch weir. Pump logs will be used in order to determine the quantity of phosphate waste discharged independently from the daily quantity of STP effluent discharged.

2. DSN 001B

TVA requests that the monitoring frequency on oil and grease for this discharge be reduced from the present frequency of daily to 1/week. Since monitoring for oil and grease began in April 1986 until our most recent data in July 1986 (61 days), oil and grease levels have been all less than 5 mg/l except one day when it was 7.0 mg/l (Table 1). (Discharges from DSN001B only occurred during April through June 1986.) These concentrations are considered typical of those anticipated in the future.

3. DSNs 002 and 004

For clarification purposes, change the sample type for flow monitoring from "Weir, Grab" to "Calculation, Weir." DSN 002 flow is determined by calculation using an in-pond staff gauge and known hydraulic characteristic of the skimmer/discharge pipe. DSN 004 flow monitoring is via a V-notch weir.

TVA requests that the measurement frequency for all parameters at these two point sources of runoff be reduced from 1/week to 2/month. Monitoring data for the past 18-month period show only one noncompliance at DSN 002 which was a TSS noncompliance exceeding the permit limit by 10 percent. DSN 004 experienced only two noncompliances during this period and both were caused bgy algal blooms.

Based on past monitoring data (summarized in Table 2) and the much reduced construction activity at BLN during the upcoming permit period, TVA believes the requested reduction in monitoring frequency for these runoff points is justified.

4. DSN 005

TVA is considering a design change to the chlorination scheme at the intake pumping station. The current scheme is to inject sodium hypochlorite into the pump discharge lines. The proposal under

consideration is to introduce liquid sodium hypochlorite in the immediate vicinity of the pump suction. Under this scenario, however, the strainer backwash and trash sluice return will contain chlorine when the systems are being chlorinated. No change to the chlorination schedules will be made. The trash sluice return will continue to be discharged directly to the Tennessee River. This was possible modification discussed in an August 14 telephone conversation between William Pearse and Madonna Martin (TVA), and Treena Piznar (ADEM).

TVA requests an alternative set of effluent limits and monitoring requirements be provided in the renewed permit to cover this potential design change.

5. DSN 007

For clarification, add the following language to footnote 1: "Quantity reported by multiplying gallons times number of batches for the day."

6. DSN 011

For clarification, add the following language as footnote 2: "Flow measured on individual batches twice per week, quantity reported by multiplying gallons times number of batches per day."

7. DSN 013

Change sample type for flow monitoring at this discharge from "Grab" to "Calculation" to reflect conditions anticipated. In this regard, add the phrase "for the day" to footnote 2 immediately after the word "batches."

8. DSN 014

As previously discussed between TVA (Wally Carpenter) and ADEM (Sonja Massey), the chlorine limitations and monitoring requirements for this discharge point reflect anticipated conditions when BLN becomes operational. It was agreed that the 2-hour time limit and corresponding average free available chlorine effluent limitation are applicable only during chlorination of the condensers. Prior to operation, only the maximum limit for free available chlorine will be applicable to monitor chlorine present in the cooling tower blowdown lines due to chlorination of the essential raw cooling water (ERCW) and raw service water (RSW) systems.

Therefore, for clarification and to reflect reduced construction activity onsite, add a footnote as follows: "Discharge limitations and monitoring requirements applicable only during direct chlorination of the condenser circulating water (CCW) system for control of biofouling. The daily maximum discharge limitation (0.5 mg/l) and measurement frequency (1/week) for free available chlorine shall be applicable at all other times."

9. DSN 015

For clarification to reflect anticipated conditions, revise the following: delete footnote 1; change the sample type for flow monitoring to read "Calculation"; and change the numerical designation of footnote 2 to footnote 1, and add a new footnote 2 with the following language: "Flow measured on individual batches once per month, quantity reported by multiplying gallons times number of batches for the day."

10. Land Application Monitoring Requirements and Limitations

An April 17, 1981, letter from ADEM approved the use of evaporation/pereolation ponds which are now used as storage ponds for land application of phosphate metal cleaning waste. Groundwater monitoring requirements for wells B1 and B2 down-gradient of the ponds were set by ADEM in the 1981 letter and later amended (frequency reduced from weekly to quarterly) in an April 19, 1985, ADEN letter. TVA believes it to be prudent to identify all monitoring requirements for the land application program at BLN in one place. Since monitoring requirements and limitations for the application sites are present in the permit, TVA requests that the reissued permit identify the groundwater monitoring requirements associated with the storage ponds and suggest this be done in the area of Part I, Page I-1q or Page I-1r, relating to land application requirements.

11. Schedule of Compliance

TVA request Part I.C. of the Schedule of Compliance be revised to align the preoperational nonradiological aquatic monitoring program with the current schedule for Unit 1 fuel loading (1993). Accordingly, Part 1.C.1.c.(3) should be changed to read: "Collect an additional two years of fisheries, non-fisheries, and water quality data beginning in February, two years before fuel load of Unit 1."

TVA believes this change is necessary because by 1993 the aquatic data base will be ten years old. Two years of data immediately preceding fuel load are required to reestablish baseline information and evaluate the outcome of trends observed in the 1985 preoperational assessment. Based on the current Unit 1 fuel load date, preoperational monitoring would be initiated in February 1991. Several revisions may also be required to the preoperational monitoring study plan submitted to ADEM on June 3, 1980, as amended February 5 and November 17, 1981, to incorporate information gained from the 1985 assessment along with more state-of-the-art monitoring techniques.

12. Schedule of Compliance

Part I.C.1.d.(5) in the present permit has a typographical error in the sixth line. "Unit 2" in this line should actually read "Unit 1."

13. Part III.K.

BLN is referred to here as having a "once through raw cooling water system." Except for blowdown, BLN has a closed condenser cooling water system.

TABLE 2

DISCHARGE CHARACTERISTICS FOR DISCHARGE SERIAL NUMBERS (DSN) 002 AND 004 AT BELLEFONTE NUCLEAR PLANT FROM JANUARY 1985 THROUGH JUNE 1986

DSN 002

| Parameter | Daily Maximum | Daily Average | Daily Minimum |
|---|---|---|---|
| Total Suspended Solids | 110 mg/l* | 23 mg/l | 3 mg/l |
| Settleable Solids | 0.01 ml/l | 0.01 ml/l | 0.01 ml/l |
| pH | 8.4 S.U. | | 7.0 S.U. |

*The next highest daily maximum value was 46 mg/l. Therefore, there was only one noncompliance for TSS (10/23/85) during the 18-month reporting period.

DSN 004

| Parameter | Daily Maximum | Daily Average | Daily Minimum |
|---|---|---|---|
| Total Suspended Solids | 67 mg/l | 16 mg/l | 1 mg/l |
| Settleable Solids | 0.01 ml/l | 0.01 ml/l | 0.01 ml/l |
| pH | 9.3 S.U.* | | 7.1 S.U. |

*There were two pH noncompliances (one on 5/20/85 and another on 5/21/85) during the 18-month reporting period. Both noncompliances were caused by algal bloom.

TABLE 1
DISCHARGE CHARACTERISTICS FOR DISCHARGE SERIAL NUMBER 001B AT BELLEFONTE NUCLEAR PLANT FROM APRIL 1986 THROUGH JULY 1986

BELLEFONTE-LINED FCNL DISCHARGE. 1986

| DATE | pH | O&G(mg/l) | Fe(mg/l) | Cu(mg/l) | Gallons Discn. | Gallons To Date |
|---|---|---|---|---|---|---|
| 1985 | | | | | | 520,160 |
| 4/24/86 | 6.7 | <5.0 | 0.24 | <0.01 | 11,300 | 531,460 |
| 4/25 | 7.9 | <5.0 | 0.15 | <0.01 | 10,920 | 542,380 |
| 4/28 | 7.4 | <5.0 | 0.09 | <0.01 | 10,860 | 553,240 |
| 4/29 | 7.5 | <5.0 | 0.10 | <0.01 | 7,640 | 560,880 |
| 4/30 | 7.6 | <5.0 | 0.14 | <0.01 | 10,890 | 571,770 |
| 5/1 | 7.8 | <5.0 | 0.06 | <0.01 | 2,440 | 574,210 |
| 5/2 | 7.6 | <5.0 | 0.06 | <0.01 | 10,670 | 584,880 |
| 5/5 | 7.4 | <5.0 | 0.03 | <0.01 | 11,270 | 596,150 |
| 5/6 | 7.7 | <5.0 | 0.11 | <0.01 | 11,430 | 607,580 |
| 5/7 | 7.7 | <5.0 | 0.04 | <0.01 | 10,240 | 617,820 |
| 5/8 | 7.6 | <5.0 | 0.05 | <0.01 | 18,160 | 635,980 |
| 5/9 | 7.8 | <5.0 | 0.07 | <0.01 | 15,200 | 651,180 |
| 5/12 | 7.6 | <5.0 | 0.10 | 0.02 | 16,500 | 667,680 |
| 5/13 | 7.8 | <5.0 | 0.07 | <0.01 | 15,500 | 683,180 |
| 5/14 | 7.8 | <5.0 | 0.05 | <0.01 | 14,600 | 697,780 |
| 5/15 | 7.9 | <5.0 | 0.02 | <0.01 | 18,210 | 715,990 |
| 5/16 | 7.8 | <5.0 | <0.01 | <0.01 | 17,620 | 733,610 |
| 5/19 | 7.9 | <5.0 | 0.01 | 0.01 | 16,570 | 750,180 |
| 5/20 | 7.8 | <5.0 | 0.10 | <0.01 | 17,000 | 767,180 |
| 5/21 | 7.8 | <5.0 | 0.10 | <0.01 | 18,000 | 785,180 |
| 5/22 | 7.9 | <5.0 | 0.08 | <0.01 | 17,500 | 802,680 |
| 5/23 | 7.8 | <5.0 | <0.01 | <0.01 | 17,000 | 819,580 |
| 5/27 | 7.8 | <5.0 | 0.12 | <0.01 | 16,400 | 835,980 |
| 5/28 | 7.7 | <5.0 | 0.10 | <0.01 | 17,150 | 853,130 |
| 5/29 | 7.9 | <5.0 | 0.11 | 0.01 | 11,820 | 864,950 |
| 5/30 | 7.9 | <5.0 | 0.09 | <0.01 | 16,970 | 881,920 |
| 6/2 | 7.8 | <5.0 | 0.12 | <0.01 | 15,690 | 897,610 |
| 6/3 | 7.8 | <5.0 | 0.14 | <0.01 | 17,300 | 914,910 |
| 6/4 | 7.7 | <5.0 | 0.20 | <0.01 | 17,170 | 932,080 |
| 6/5 | 7.7 | <5.0 | 0.08 | <0.01 | 17,000 | 949,080 |
| 6/6 | 7.8 | <5.0 | 0.03 | <0.01 | 16,500 | 965,580 |
| 6/9 | 7.8 | <5.0 | 0.11 | <0.01 | 15,900 | 981,480 |
| 6/10 | 7.9 | 7.0 | 0.15 | <0.01 | 15,000 | 996,480 |
| 6/11 | 7.8 | <5.0 | 0.15 | <0.01 | 16,000 | 1,012,480 |
| 6/12 | 7.8 | <5.0 | 0.20 | <0.01 | 16,400 | 1,028,880 |
| 6/13 | 7.8 | <5.0 | 0.15 | <0.01 | 16,000 | 1,044,880 |
| 6/16 | 7.7 | <5.0 | 0.12 | <0.01 | 15,320 | 1,060,200 |
| 6/17 | 7.7 | <5.0 | 0.14 | <0.01 | 16,580 | 1,076,780 |
| 6/18 | 7.8 | <5.0 | 0.13 | <0.01 | 16,930 | 1,093,710 |
| 6/19 | 7.8 | <5.0 | 0.10 | <0.01 | 16,900 | 1,095,310 |
| 6/20 | 7.9 | <5.0 | 0.15 | <0.01 | 16,300 | 1,111,610 |
| 6/23 | 7.9 | <5.0 | 0.08 | 0.01 | 15,600 | 1,127,210 |
| 6/24 | 7.9 | <5.0 | 0.07 | <0.01 | 17,000 | 1,144,210 |
| 6/25 | 7.8 | <5.0 | 0.12 | <0.01 | 17,000 | 1,161,210 |
| 6/26 | 7.8 | <5.0 | 0.09 | <0.01 | 17,000 | 1,178,210 |
| 6/27 | 7.7 | <5.0 | 0.10 | <0.01 | 16,100 | 1,194,310 |
| 6/30 | 7.8 | <5.0 | 0.07 | <0.01 | 15,500 | 1,209,810 |
| 7/1 | 7.8 | <5.0 | 0.10 | <0.01 | 15,700 | 1,225,510 |
| 7/2 | 7.8 | <5.0 | 0.08 | <0.01 | 16,900 | 1,242,410 |
| 7/3 | 7.7 | <5.0 | 0.10 | <0.01 | 16,000 | 1,258,410 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 7/7 | 7.8 | <5.0 | 0.18 | <0.01 | 15,200 | 1,273,610 |
| 7/8 | 7.8 | <5.0 | 0.12 | <0.01 | 16,600 | 1,290,210 |
| 7/9 | 7.8 | <5.0 | 0.16 | <0.01 | 16,700 | 1,306,910 |
| 7/10 | 7.8 | <5.0 | 0.17 | <0.01 | 16,800 | 1,323,710 |
| 7/11 | 7.9 | <5.0 | 0.23 | <0.01 | 16,000 | 1,339,710 |
| 7/14 | 7.9 | <5.0 | 0.25 | <0.01 | 16,400 | 1,356,110 |
| 7/15 | 7.8 | <5.0 | 0.24 | <0.01 | 16,500 | 1,372,610 |
| 7/16 | 7.8 | <5.0 | 0.35 | <0.01 | 16,200 | 1,388,810 |
| 7/17 | 7.8 | <5.0 | 0.54 | <0.01 | 16,600 | 1,405,410 |
| 7/18 | 7.8 | <5.0 | 0.51 | <0.01 | 15,200 | 1,420,610 |
| 7/21 | 7.8 | <5.0 | 1.04 | <0.01 | 14,600 | 1,435,210 |

Discharge discontinued due to low water level in pond.