



1103 S. Talbot Street, Suite D  
St. Michaels, MD 21663  
Phone (410) 745-0919  
Fax (410) 745-0922

300 High Street, Suite 3  
Seaford, DE 19970  
Phone (302) 629-6505  
Fax (302) 629-6722  
[www.bpenvironmental.net](http://www.bpenvironmental.net)

28 October 2010

John DeFriece  
Delaware, Department of Natural Resources  
and Environmental Control  
Division of Water/Surface Water  
89 Kings Highway  
Dover, Delaware 19901  
Fed Ex# - 8729 8258 8074



Re: NPDES Permit Renewal  
18752 Harbeson Road  
Harbeson, DE 19951  
State Permit No. WPCC 3131E/76  
NPDES Permit No. DE0000299

Dear Mr. DeFriece:

On behalf of our client, Allen Family Foods, Inc., enclosed please find the application for the renewal of the above mentioned discharge permit. This renewal is for the Allen Family Foods, Inc. facility located at 18752 Harbeson Road, Harbeson, Sussex County, Delaware 19951.

Thank you in advance for your prompt attention to this renewal package.

Sincerely yours,

A handwritten signature in blue ink that reads "Gary K. Lasako".

Gary Lasako  
BP Environmental, Inc.

cc: Delaware Department of Natural Resources and Environmental Control  
Tom Brinson, Allen Family Foods, Inc., Seaford  
Michael Sause, Allen Family Foods, Inc., Harbeson  
File

# Disclaimer

This is an updated PDF document that allows you to type your information directly into the form, print it, and save the completed form.

Note: This form can be viewed and saved only using Adobe Acrobat Reader version 7.0 or higher, or if you have the full Adobe Professional version.

**Instructions:**

1. Type in your information
2. Save file (if desired)
3. Print the completed form
4. Sign and date the printed copy
5. Mail it to the directed contact.



Permits Division



# Application Form 1 – General Information

## Consolidated Permits Program



This form must be completed by all persons applying for a permit under EPA's Consolidated Permits Program. See the general instructions to Form 1 to determine which other application forms you will need.

DESCRIPTION OF CONSOLIDATED PERMIT APPLICATION FORMS	FORM 1 PACKAGE TABLE OF CONTENTS
<p>The Consolidated Permit Application Forms are:</p> <p>Form 1 – General Information (<i>included in this part</i>);</p> <p>Form 2 – Discharges to Surface Water (<i>NPDES Permits</i>):</p> <p>    2A. Publicly owned Treatment Works (<i>Reserved - not included in this package</i>),</p> <p>    2B. Concentrated Animal Feeding Operations and Aquatic Animal Production Facilities (<i>not included in this package</i>),</p> <p>    2C. Existing Manufacturing, Commercial, Mining, and Silvicultural Operations (<i>not included in this package</i>), and</p> <p>    2D. New Manufacturing, Commercial, Mining, and Silvicultural Operations (<i>Reserved - not included in this package</i>);</p> <p>Form 3 – Hazardous Waste Application Form (<i>RCRA Permits - not included in this package</i>);</p> <p>Form 4 – Underground Injection of Fluids (<i>UIC Permits - Reserved - not included in this package</i>); and</p> <p>Form 5 – Air Emissions in Attainment Areas (<i>PSD Permits - Reserved - not included in this package</i>).</p>	<p>Section A. General Instructions</p> <p>Section B. Instructions for Form 1</p> <p>Section C. Activities Which Do Not Require Permits</p> <p>Section D. Glossary</p> <p>Form 1 (<i>two copies</i>)</p>

## SECTION A – GENERAL INSTRUCTIONS

### Who Must Apply

With the exceptions described in Section C of these instructions, Federal laws prohibit you from conducting any of the following activities without a permit.

**NPDES** (*National Pollutant Discharge Elimination System Under the Clean Water Act, 33 U.S.C. 1251*). Discharge of pollutants into the waters of the United States.

**RCRA** (*Resource Conservation and Recovery Act, 42 U.S.C. 6901*). Treatment, storage, or disposal of hazardous wastes.

**UIC** (*Underground Injection Control Under the Safe Drinking Water Act, 42 U.S.C. 300f*). Injection of fluids underground by gravity flow or pumping.

**PSD** (*Prevention of Significant Deterioration Under the Clean Air Act, 72 U.S.C 7401*). Emission of an air pollutant by a new or modified facility in or near an area which has attained the National Ambient Air Quality Standards for that pollutant.

Each of the above permit programs is operated in any particular State by either the United States Environmental Protection Agency (**EPA**) or by an approved State agency. You must use this application form to apply for a permit for those programs administered by EPA. For those programs administered by approved states, contact the State environmental agency for the proper forms.

If you have any questions about whether you need a permit under any of the above programs, or if you need information as to whether a particular program is administered by EPA or a State agency, or if you need to obtain application forms, contact your EPA Regional office (*listed in Table 1*).

Upon your request, and based upon information supplied by you, EPA will determine whether you are required to obtain a permit for a particular facility. Be sure to contact EPA if you have a question, because Federal laws provide that you may be heavily penalized if you do not apply for a permit when a permit is required.

Form 1 of the EPA consolidated application forms collects general information applying to all programs. You must fill out Form 1 regardless of which permit you are applying for. In addition, you must fill out one of the supplementary forms (*Forms 2 – 5*) for each permit

needed under each of the above programs. Item II of Form 1 will guide you to the appropriate supplementary forms.

You should note that there are certain exclusions to the permit requirements listed above. The exclusions are described in detail in Section C of these instructions. If your activities are excluded from permit requirements then you do not need to complete and return any forms.

**NOTE:** Certain activities not listed above also are subject to EPA administered environmental permit requirements. These include permits for ocean dumping, dredged or fill material discharging, and certain types of air emissions. Contact your EPA Regional office for further information.

### Table 1. Addresses of EPA Regional Contacts and States Within the Regional Office Jurisdictions

#### REGION 1

Permit Contact, Environmental and Economic Impact Office, U.S. Environmental Protection Agency, 1 Congress St., Suite 1100, Boston, MA 02114-2023, Phone: (617) 918-1111, Fax: (617) 918-1809, Toll free within Region 1: (888) 372-7341, <http://www.epa.gov/region01>.

Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

#### REGION 2

Permit Contact, Permits Administration Branch, U.S. Environmental Protection Agency, 290 Broadway, New York, NY 10007-1866, Phone: (212) 637-3000, Fax: (212) 637-3526, <http://www.epa.gov/region02/>.

New Jersey, New York, Virgin Islands, and Puerto Rico.

#### REGION 3

Permit Contact (*3 EN 23*), U.S. Environmental Protection Agency, 1650 Arch Street, Philadelphia, PA 19103-2029, Phone: (215) 814-5000, Fax: (215) 814-5103, Toll free: (800) 438-2474, <http://www.epa.gov/region03/>.

Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia.

SECTION A – GENERAL INSTRUCTIONS

**REGION 4**

Permit Contact, Permits Section, U.S. Environmental Protection Agency, Atlanta Federal Center, 61 Forsyth Street, SW, Atlanta, GA 30303-3104, Phone: (404) 562-9900, Fax: (404) 562-8174, Toll free: (800) 241-1754, <http://www.epa.gov/region04/>.  
Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

**REGION 5**

Permit Contact (5EP), U.S. Environmental Protection Agency, 77 West Jackson Boulevard, Chicago, IL 60604-3507, Phone: (312) 353-2000, Fax: (312) 353-4135, Toll free within Region 5: (800) 621-8431, <http://www.epa.gov/region5/>.  
Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.

**REGION 6**

Permit Contact (6AEP), U.S. Environmental Protection Agency, Fountain Place 12th Floor, Suite 1200, 1445 Ross Avenue, Dallas, TX 75202-2733, Phone: (214) 665-2200, Fax: (214) 665-7113, Toll free within Region 6: (800) 887-6063, <http://www.epa.gov/region06/>.  
Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

**REGION 7**

Permit Contact, Permits Branch, U.S. Environmental Protection Agency, 901 North 5th Street, Kansas City, KS 66101, Phone: (913) 551-7003, Toll free: (800) 223-0425, <http://www.epa.gov/region07/>.  
Iowa, Kansas, Missouri, and Nebraska.

**REGION 8**

Permit Contact (8E-WE), U.S. Environmental Protection Agency, 999 18th Street, Suite 500, Denver, CO 80202-2466, Phone: (303) 312-6312, Fax: (303) 312-6339, Toll free: (800) 227-8917, <http://www.epa.gov/region08/>.  
Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

**REGION 9**

Permit Contact, Permits Branch (E-4), U.S. Environmental Protection Agency, 75 Hawthorne Street, San Francisco, CA 94105, Phone: (415) 947-8000, Fax: (415) 947-3553, Toll free within Region 9: (866) EPA-WEST, <http://www.epa.gov/region09/>.  
Arizona, California, Hawaii, Nevada, Guam, American Samoa, and Trust Territories.

**REGION 10**

Permit Contact (M/S 521), U.S. Environmental Protection Agency, 1200 Sixth Avenue, Seattle, WA 98101, Phone: (206) 553-1200, Fax: (206) 553-2955, Toll free: (800) 424-4372, <http://www.epa.gov/region10/>.  
Alaska, Idaho, Oregon, and Washington.

**Where to File**

The application forms should be mailed to the EPA Regional office whose Region includes the State in which the facility is located (see Table 1).

If the State in which the facility is located administers a Federal permit program under which you need a permit, you should contact the appropriate State agency for the correct forms. Your EPA Regional office (Table 1) can tell you to whom to apply and can provide the appropriate address and phone number.

**When to File**

Because of statutory requirements, the deadlines for filing applications vary according to the type of facility you operate and the type of permit you need. These deadlines are as follows:<sup>1</sup>

**Table 2. Filing Dates for Permits**

FORM (permit)	WHEN TO FILE
2A (NPDES) . . . . .	180 days before your present NPDES permit expires.
2B (NPDES) . . . . .	180 days before your present NPDES permit expires <sup>2</sup> , or 180 days prior to startup if you are a new facility.
2C (NPDES) . . . . .	180 days before your present NPDES permit expires <sup>2</sup> .
2D (NPDES) . . . . .	180 days prior to startup.
3 (Hazardous Waste) . . . . .	Existing facility: Six months following publication of regulations listing hazardous wastes. New facility: 180 days before commencing physical construction.
4 (UIC) . . . . .	A reasonable time prior to construction for new wells; as directed by the Director for existing wells.
5 (PSD) . . . . .	Prior to commencement of construction.

<sup>1</sup>Please note that some of these forms are not yet available for use and are listed as "Reserved" at the beginning of these instructions. Contact your EPA Regional office for information on current application requirements and forms.

<sup>2</sup>If your present permit expires on or before November 30, 1980, the filing date is the date on which your permit expires. If your permit expires during the period December 1, 1980–May 31, 1981, the filing date is 90 days before your permit expires.

Federal regulations provide that you may not begin to construct a new source in the NPDES program, a new hazardous waste management facility, a new injection well, or a facility covered by the PSD program before the issuance of a permit under the applicable program. Please note that if you are required to obtain a permit before beginning construction, as described above, you may need to submit your permit application well in advance of an applicable deadline listed in Table 2.

**Fees**

The U.S. EPA does not require a fee for applying for any permit under the consolidated permit programs. (However, some States which administer one or more of these programs require fees for the permits which they issue.)

**Availability of Information to Public**

Information contained in these application forms will, upon request, be made available to the public for inspection and copying. However, you may request confidential treatment for certain information which you submit on certain supplementary forms. The specific instructions for each supplementary form state what information on the form, if any, may be claimed as confidential and what procedures govern the claim. No information on Forms 1 and 2A through 2D may be claimed as confidential.

**Completion of Forms**

Unless otherwise specified in instructions to the forms, each item in each form must be answered. To indicate that each item has been considered, enter "NA," for not applicable, if a particular item does not fit the circumstances or characteristics of your facility or activity.

If you have previously submitted information to EPA or to an approved State agency which answers a question, you may either repeat the information in the space provided or attach a copy of the previous submission. Some items in the form require narrative explanation. If more space is necessary to answer a question, attach a separate sheet entitled "Additional Information."

**Financial Assistance for Pollution Control**

There are a number of direct loans, loan guarantees, and grants available to firms and communities for pollution control expenditures. These are provided by the Small Business Administration, the Economic Development Administration, the Farmers Home Administration, and the Department of Housing and Urban Development. Each EPA Regional office (Table 1) has an economic assistance coordinator who can provide you with additional information.

EPA's construction grants program under Title II of the Clean Water Act is an additional source of assistance to publicly owned treatment works. Contact your EPA Regional office for details.

SECTION B – FORM 1 LINE BY LINE INSTRUCTIONS

This form must be completed by all applicants.

**Completing This Form**

Please type or print in the unshaded areas only. Some items have small graduation marks in the fill-in spaces. These marks indicate the number of characters that may be entered into our data system. The marks are spaced at 1/6" intervals which accommodate elite type (12 characters per inch). If you use another type you may ignore the marks. If you print, place each character between the marks. Abbreviate if necessary to stay within the number of characters allowed for each item. Use one space for breaks between words, but not for punctuation marks unless they are needed to clarify your response.

**Item I**

Space is provided at the upper right hand corner of Form 1 for insertion of your EPA Identification Number. If you have an existing facility, enter your Identification Number. If you don't know your EPA Identification Number, please contact your EPA Regional office (Table 1), which will provide you with your number. If your facility is new (not yet constructed), leave this item blank.

**Item II**

Answer each question to determine which supplementary forms you need to fill out. Be sure to check the glossary in Section D of these instructions for the legal definitions of the bold faced words. Check Section C of these instructions to determine whether your activity is excluded from permit requirements.

If you answer "no" to every question, then you do not need a permit, and you do not need to complete and return any of these forms.

If you answer "yes" to any question, then you must complete and file the supplementary form by the deadline listed in Table 2 along with this form. (The applicable form number follows each question and is enclosed in parentheses.) You need not submit a supplementary form if you already have a permit under the appropriate Federal program, unless your permit is due to expire and you wish to renew your permit.

Questions (I) and (J) of Item II refer to major new or modified sources subject to Prevention of Significant Deterioration (PSD) requirements under the Clean Air Act. For the purpose of the PSD program, major sources are defined as: (A) Sources listed in Table 3 which have the potential to emit 100 tons or more per year emissions; and (B) All other sources with the potential to emit 250 tons or more per year. See Section C of these instructions for discussion of exclusions of certain modified sources.

**Table 3. 28 Industrial Categories Listed In Section 169(1) of the Clean Air Act of 1977**

- Fossil fuel-fired steam generators of more than 250 million BTU per hour heat input;
- Coal cleaning plants (with thermal dryers);
- Kraft pulp mills;
- Portland cement plants;
- Primary zinc smelters;
- Iron and steel mill plants;
- Primary aluminum ore reduction plants;
- Primary copper smelters;
- Municipal incinerators capable of charging more than 250 tons of refuse per day;
- Hydrofluoric acid plants;
- Nitric acid plants;
- Sulfuric acid plants;
- Petroleum refineries;
- Lime plants;
- Phosphate rock processing plants;
- Coke oven batteries;
- Sulfur recovery plants;
- Carbon black plants (furnace process);
- Primary lead smelters;
- Fuel conversion plants;
- Sintering plants;
- Secondary metal production plants;
- Chemical process plants;
- Fossil fuel boilers (or combination thereof) totaling more than 250 million BTU per hour heat input;

**Table 3 (continued)**

- Petroleum storage and transfer units with a total storage capacity exceeding 300,000 barrels;
- Taconite ore processing plants;
- Glass fiber processing plants; and
- Charcoal production plants.

**Item III**

Enter the facility's official or legal name. Do not use a colloquial name.

**Item IV**

Give the name, title, and work telephone number of a person who is thoroughly familiar with the operation of the facility and with the facts reported in this application and who can be contacted by reviewing offices if necessary.

**Item V**

Give the complete mailing address of the office where correspondence should be sent. This often is not the address used to designate the location of the facility or activity.

**Item VI**

Give the address or location of the facility identified in Item III of this form. If the facility lacks a street name or route number, give the most accurate alternative geographic information (e.g., section number or quarter section number from county records or at inter-section of Rts. 425 and 22).

**Item VII**

List, in descending order of significance, the four 4-digit standard industrial classification (SIC) codes which best describe your facility in terms of the principal products or services you produce or provide. Also, specify each classification in words. These classifications may differ from the SIC codes describing the operation generating the discharge, air emissions, or hazardous wastes.

SIC code numbers are descriptions which may be found in the "Standard Industrial Classification Manual" prepared by the Executive Office of the President, Office of Management and Budget, which is available from the Government Printing Office, Washington, D.C. Use the current edition of the manual. If you have any questions concerning the appropriate SIC code for your facility, contact your EPA Regional office (see Table 1).

**Item VIII-A**

Give the name, as it is legally referred to, of the person, firm, public organization, or any other entity which operates the facility described in this application. This may or may not be the same name as the facility. The operator of the facility is the legal entity which controls the facility's operation rather than the plant or site manager. Do not use a colloquial name.

**Item VIII-B**

Indicate whether the entity which operates the facility also owns it by marking the appropriate box.

**Item VIII-C**

Enter the appropriate letter to indicate the legal status of the operator of the facility. Indicate "public" for a facility solely owned by local government(s) such as a city, town, county, parish, etc.

**Items VIII-D-H**

Enter the telephone number and address of the operator identified in Item VIII-A.

**Item IX**

Indicate whether the facility is located on Indian Lands.

**Item X**

Give the number of each presently effective permit issued to the facility for each program or, if you have previously filed an application but have not yet received a permit, give the number of the application, if any. Fill in the unshaded area only. If you have more than one currently effective permit for your facility under a particular permit program, you may list additional permit numbers on a separate sheet of paper. List any relevant environmental Federal (e.g., permits

**SECTION B – FORM 1 LINE BY LINE INSTRUCTIONS**

under the Ocean Dumping Act, Section 404 of the Clean Water Act or the Surface Mining Control and Reclamation Act), State (e.g., State permits for new air emission sources in nonattainment areas under Part D of the Clean Air Act or State permits under Section 404 of the Clean Water Act), or local permits or applications under "other."

**Item XI**

Provide a topographic map or maps of the area extending at least to one mile beyond the property boundaries of the facility which clearly show the following:

- The legal boundaries of the facility;
- The location and serial number of each of your existing and proposed intake and discharge structures;
- All hazardous waste management facilities;
- Each well where you inject fluids underground; and
- All springs and surface water bodies in the area, plus all drinking water wells within 1/4 mile of the facility which are identified in the public record or otherwise known to you.

If an intake or discharge structure, hazardous waste disposal site, or injection well associated with the facility is located more than one mile from the plant, include it on the map, if possible. If not, attach additional sheets describing the location of the structure, disposal site, or well, and identify the U.S. Geological Survey (or other) map corresponding to the location.

On each map, include the map scale, a meridian arrow showing north, and latitude and longitude at the nearest whole second. On all maps of rivers, show the direction of the current, and in tidal waters, show the directions of the ebb and flow tides. Use a 7-1/2 minute series map published by the U.S. Geological Survey, which may be obtained through the U.S. Geological Survey Offices listed below. If a 7-1/2 minute series map has not been published for your facility site, then you may use a 15 minute series map from the U.S. Geological Survey. If neither a 7-1/2 nor 15 minute series map has been published for your facility site, use a plat map or other appropriate map, including all the requested information; in this case, briefly describe land uses in the map area (e.g., residential, commercial).

You may trace your map from a geological survey chart, or other map meeting the above specifications. If you do, your map should bear a note showing the number or title of the map or chart it was traced from. Include the names of nearby towns, water bodies, and other prominent points. An example of an acceptable location map is shown in Figure 1-1 of these instructions. (NOTE: Figure 1-1 is provided for purposes of illustration only, and does not represent any actual facility.)

U.S.G.S. OFFICES	AREA SERVED
Eastern Mapping Center National Cartographic Information Center U.S.G.S. 536 National Center Reston, VA 22092 Phone No. (703) 860-6336	Ala., Conn., Del., D.C., Fla., Ga., Ind., Ky., Maine, Md., Mass., N.H., N.J., N.Y., N.C., S.C., Ohio, Pa., Puerto Rico, R.I., Tenn., Vt., Va., W. Va., and Virgin Islands
Mid Continent Mapping Center National Cartographic Information Center U.S.G.S. 1400 Independence Road Rolla, MO 65401 Phone No. (314) 341-0851	Ark., Ill., Iowa, Kans., La., Mich., Minn., Miss., Mo., N. Dak., Nebr., Okla., S. Dak., and Wis.
Rocky Mountain Mapping Center National Cartographic Information Center U.S.G.S. Stop 504, Box 25046 Federal Center Denver, CO 80225 Phone No. (303) 234-2326	Alaska, Colo., Mont., N. Mex., Tex., Utah, and Wyo.
Western Mapping Center National Cartographic Information Center U.S.G.S. 345 Middlefield Road Menlo Park, CA 94025 Phone No. (415) 323-8111	Ariz., Calif., Hawaii, Idaho, Nev., Oreg., Wash., American Samoa, Guam, and Trust Territories

**Item XII**

Briefly describe the nature of your business (e.g., products produced or services provided).

**Item XIII**

Federal statutes provide for severe penalties for submitting false information on this application form.

18 U.S.C. Section 1001 provides that "Whoever, in any matter within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals or covers up by any trick, scheme, or device a material fact, or makes or uses any false writing or document knowing some to contain any false, fictitious or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than five years, or both."

Section 309(c)(2) of the Clean Water Act and Section 113(c)(2) of the Clean Air Act each provide that "Any person who knowingly makes any false statement, representation, or certification in any application, . . . shall upon conviction, be punished by a fine of no more than \$10,000 or by imprisonment for not more than six months, or both."

In addition, Section 3008(d)(3) of the Resource Conservation and Recovery Act provides for a fine up to \$25,000 per day or imprisonment up to one year, or both, for a first conviction for making a false statement in any application under the Act, and for double these penalties upon subsequent convictions.

FEDERAL REGULATIONS REQUIRE THIS APPLICATION TO BE SIGNED AS FOLLOWS:

- A. For a corporation, by a principal executive officer of at least the level of vice president. However, if the only activity in Item II which is marked "yes" is Question G, the officer may authorize a person having responsibility for the overall operations of the well or well field to sign the certification. In that case, the authorization must be written and submitted to the permitting authority.
- B. For partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- C. For a municipality, State, Federal, or other public facility, by either a principal executive officer or ranking elected official.

## SECTION C – ACTIVITIES WHICH DO NOT REQUIRE PERMITS

**1. National Pollutant Discharge Elimination System Permits Under the Clean Water Act.** You are not required to obtain an NPDES permit if your discharge is in one of the following categories, as provided by the Clean Water Act (CWA) and by the NPDES regulations (40 CFR Parts 122-125). However, under Section 510 of CWA a discharge exempted from the federal NPDES requirements may still be regulated by a State authority; contact your State environmental agency to determine whether you need a State permit.

**A. DISCHARGES FROM VESSELS.** Discharges of sewage from vessels, effluent from properly functioning marine engines, laundry, shower, and galley sink wastes, and any other discharge incidental to the normal operation of a vessel do not require NPDES permits. However, discharges of rubbish, trash, garbage, or other such materials discharged overboard require permits, and so do other discharges when the vessel is operating in a capacity other than as a means of transportation, such as when the vessel is being used as an energy or mining facility, a storage facility, or a seafood processing facility, or is secured to the bed of the ocean, contiguous zone, or waters of the United States for the purpose of mineral or oil exploration or development.

**B. DREDGED OR FILL MATERIAL.** Discharges of dredged or fill material into waters of the United States do not need NPDES permits if the dredging or filling is authorized by a permit issued by the U.S. Army Corps of Engineers or an EPA approved State under Section 404 of CWA.

**C. DISCHARGES INTO PUBLICLY OWNED TREATMENT WORKS (POTW).** The introduction of sewage, industrial wastes, or other pollutants into a POTW does not need an NPDES permit. You must comply with all applicable pretreatment standards promulgated under Section 307(b) of CWA, which may be included in the permit issued to the POTW. If you have a plan or an agreement to switch to a POTW in the future, this does not relieve you of the obligation to apply for and receive an NPDES permit until you have stopped discharging pollutants into waters of the United States.

*(NOTE: Dischargers into privately owned treatment works do not have to apply for or obtain NPDES permits except as otherwise required by the EPA Regional Administrator. The owner or operator of the treatment works itself, however, must apply for a permit and identify all users in its application. Users so identified will receive public notice of actions taken on the permit for the treatment works.)*

**D. DISCHARGES FROM AGRICULTURAL AND SILVICULTURAL ACTIVITIES.** Most discharges from agricultural and silvicultural activities to waters of the United States do not require NPDES permits. These include runoff from orchards, cultivated crops, pastures, range lands, and forest lands. However, the discharges listed below do require NPDES permits. Definitions of the terms listed below are contained in the Glossary section of these instructions.

1. Discharges from Concentrated Animal Feeding Operations. (See Glossary for definitions of "animal feeding operations" and "concentrated animal feeding operations." Only the latter require permits.)

2. Discharges from Concentrated Aquatic Animal Production Facilities. (See Glossary for size cutoffs.)

3. Discharges associated with approved Aquaculture Projects.

4. Discharges from Silvicultural Point Sources. (See Glossary for the definition of "silvicultural point source.") Nonpoint source silvicultural activities are excluded from NPDES permit requirements. However, some of these activities, such as stream crossings for roads, may involve point source discharges of dredged or fill material which may require a Section 404 permit. See 33 CFR 209.120.

**E. DISCHARGES IN COMPLIANCE WITH AN ON-SCENE COORDINATOR'S INSTRUCTIONS.**

**II. Hazardous Waste Permits Under the Resource Conservation and Recovery Act.** You may be excluded from the requirement to obtain a permit under this program if you fall into one of the following categories:

Generators who accumulate their own hazardous waste on-site for less than 90 days as provided in 40 CFR 262.34;

Farmers who dispose of hazardous waste pesticide from their own use as provided in 40 CFR 262.51;

Certain persons treating, storing, or disposing of small quantities of hazardous waste as provided in 40 CFR 261.4 or 261.5; and

Owners and operators of totally enclosed treatment facilities as defined in 40 CFR 260.10.

Check with your Regional office for details. Please note that even if you are excluded from permit requirements, you may be required by Federal regulations to handle your waste in a particular manner.

**III. Underground Injection Control Permits Under the Safe Drinking Water Act.** You are not required to obtain a permit under this program if you:

Inject into existing wells used to enhance recovery of oil and gas or to store hydrocarbons (*note, however, that these underground injections are regulated by Federal rules*); or

Inject into or above a stratum which contains, within 1/4 mile of the well bore, an underground source of drinking water (*unless your injection is the type identified in Item II-H, for which you do need a permit*). However, you must notify EPA of your injection and submit certain required information on forms supplied by the Agency, and your operation may be phased out if you are a generator of hazardous wastes or a hazardous waste management facility which uses wells or septic tanks to dispose of hazardous waste.

**IV. Prevention of Significant Deterioration Permits Under the Clean Air Act.** The PSD program applies to newly constructed or modified facilities (*both of which are referred to as "new sources"*) which increase air emissions. The Clean Air Act Amendments of 1977 exclude small new sources of air emissions from the PSD review program. Any new source in an industrial category listed in Table 3 of these instructions whose potential to emit is less than 100 tons per year is not required to get a PSD permit. In addition, any new source in an industrial category not listed in Table 3 whose potential to emit is less than 250 tons per year is exempted from the PSD requirements.

Modified sources which increase their net emissions (*the difference between the total emission increases and total emission decreases at the source*) less than the significant amount set forth in EPA regulations are also exempt from PSD requirements. Contact your EPA Regional office (*Table 1*) for further information.

## SECTION D – GLOSSARY

NOTE: This Glossary includes terms used in the instructions and in Forms 1, 2B, 2C, and 3. Additional terms will be included in the future when other forms are developed to reflect the requirements of other parts of the Consolidated Permits Program. If you have any questions concerning the meaning of any of these terms, please contact your EPA Regional office (*Table 1*)

**ALIQOT** means a sample of specified volume used to make up a total composite sample.

**ANIMAL FEEDING OPERATION** means a lot or facility (*other than an aquatic animal production facility*) where the following conditions are met;

A. Animals (*other than aquatic animals*) have been, are, or will be stabled or confined and fed or maintained for a total of 45 days or more in any 12 month period; and

B. Crops, vegetation, forage growth, or post-harvest residues are not sustained in the normal growing season over any portion of the lot or facility.

Two or more animal feeding operations under common ownership are a single animal feeding operation if they adjoin each other or if they use a common area or system for the disposal of wastes.

**ANIMAL UNIT** means a unit of measurement for any animal feeding operation calculated by adding the following numbers: The number of slaughter and feeder cattle multiplied by 1.0; Plus the number of mature dairy cattle multiplied by 1.4; Plus the number of swine weighing over 25 kilograms (*approximately 55 pounds*) multiplied by 0.4; Plus the number of sheep multiplied by 0.1; Plus the number of horses multiplied by 2.0.

**APPLICATION** means the EPA standard national forms for applying for a permit, including any additions, revisions, or modifications to the forms; or forms approved by EPA for use in approved States, including any approved modifications or revisions. For RCRA, "application" also means "Application, Part B."

**APPLICATION, PART A** means that part of the Consolidated Permit Application forms which a RCRA permit applicant must complete to qualify for interim status under Section 3005(e) of RCRA and for consideration for a permit. Part A consists of Form 1 (*General Information*) and Form 3 (*Hazardous Waste Application Form*).

**APPLICATION, PART B** means that part of the application which a RCRA permit applicant must complete to be issued a permit. (*NOTE: EPA is not developing a specific form for Part B of the permit application, but an instruction booklet explaining what Information must be supplied is available from the EPA Regional office.*)

**APPROVED PROGRAM** or **APPROVED STATE** means a State program which has been approved or authorized by EPA under 40 CFR Part 123.

**AQUACULTURE PROJECT** means a defined managed water area which uses discharges of pollutants into that designated area for the maintenance or production of harvestable freshwater, estuarine, or marine plants or animals. "Designated area" means the portions of the waters of the United States within which the applicant plans to confine the cultivated species, using a method of plan or operation (*including, but not limited to, physical confinement*) which, on the basis of reliable scientific evidence, is expected to ensure the specific individual organisms comprising an aquaculture crop will enjoy increased growth attributable to the discharge of pollutants and be harvested within a defined geographic area.

**AQUIFER** means a geological formation, group of formations, or part of a formation that is capable of yielding a significant amount of water to a well or spring.

**AREA OF REVIEW** means the area surrounding an injection which is described according to the criteria set forth in 40 CFR Section 146.06.

**AREA PERMIT** means a UIC permit applicable to all or certain wells within a geographic area, rather than to a specified well, under 40 CFR Section 122.37.

**ATTAINMENT AREA** means, for any air pollutant, an area which has been designated under Section 107 of the Clean Air Act as having ambient air quality levels better than any national primary or secondary ambient air quality standard for that pollutant. Standards have

been set for sulfur oxides, particulate matter, nitrogen dioxide, carbon monoxide, ozone, lead, and hydrocarbons. For purposes of the Glossary, "attainment area" also refers to "unclassifiable area," which means, for any pollutants, an area designated under Section 107 as unclassifiable with respect to that pollutant due to insufficient information.

**BEST MANAGEMENT PRACTICES (BMP)** means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. BMP's include treatment requirements, operation procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

**BIOLOGICAL MONITORING TEST** means any test which includes the use of aquatic algal, invertebrate, or vertebrate species to measure acute or chronic toxicity, and any biological or chemical measure of bioaccumulation.

**BYPASS** means the intentional diversion of wastes from any portion of a treatment facility.

**CONCENTRATED ANIMAL FEEDING OPERATION** means an animal feeding operation which meets the criteria set forth in either (A) or (B) below or which the Director designates as such on a case-by-case basis:

A. More than the numbers of animals specified in any of the following categories are confined:

- 1,000 slaughter or feeder cattle,
- 700 mature dairy cattle (*whether milked or dry cows*),
- 2,500 swine each weighing over 25 kilograms (*approximately 55 pounds*),
- 500 horses,
- 10,000 sheep or lambs,
- 55,000 turkeys,
- 100,000 laying hens or broilers (*if the facility has a continuous overflow watering*),
- 30,000 laying hens or broilers (*if the facility has a liquid manure handling system*),
- 5,000 ducks, or
- 1,000 animal units; or

B. More than the following numbers and types of animals are confined:

- 300 slaughter or feeder cattle,
- 200 mature dairy cattle (*whether milked or dry cows*),
- 750 swine each weighing over 25 kilograms (*approximately 55 pounds*),
- 150 horses,
- 3,000 sheep or lambs,
- 16,500 turkeys,
- 30,000 laying hens or broilers (*if the facility has continuous overflow watering*),
- 9,000 laying hens or broilers (*if the facility has a liquid manure handling system*),
- 1,500 ducks, or
- 300 animal units; AND

## SECTION D – GLOSSARY

Either one of the following conditions are met: Pollutants are discharged into waters of the United States through a manmade ditch, flushing system or other similar manmade device ("man-made" means constructed by man and used for the purpose of transporting wastes); or Pollutants are discharged directly into waters of the United States which originate outside of and pass over, across, or through the facility or otherwise come into direct contact with the animals confined in the operation.

Provided, however, that no animal feeding operation is a concentrated animal feeding operation as defined above if such animal feeding operation discharges only in the event of a 25 year, 24 hour storm event.

**CONCENTRATED AQUATIC ANIMAL PRODUCTION FACILITY** means a hatchery, fish farm, or other facility which contains, grows or holds aquatic animals in either of the following categories, or which the Director designates as such on a case-by-case basis:

A. Cold water fish species or other cold water aquatic animals including, but not limited to, the Salmonidae family of fish (e.g., trout and salmon) in ponds, raceways or other similar structures which discharge at least 30 days per year but does not include:

1. Facilities which produce less than 9,090 harvest weight kilograms (approximately 20,000 pounds) of aquatic animals per year; and
2. Facilities which feed less than 2,272 kilograms (approximately 5,000 pounds) of food during the calendar month of maximum feeding.

B. Warm water fish species or other warm water aquatic animals including, but not limited to, the Ameiuridae, Cetrarchidae, and Cyprinidae families of fish (e.g., respectively, catfish, sunfish, and minnows) in ponds, raceways, or other similar structures which discharge at least 30 days per year, but does not include;

1. Closed ponds which discharge only during periods of excess runoff; or
2. Facilities which produce less than 45,454 harvest weight kilograms (approximately 100,000 pounds) of aquatic animals per year.

**CONTACT COOLING WATER** means water used to reduce temperature which comes into contact with a raw material, intermediate product, waste product other than heat, or finished product.

**CONTAINER** means any portable device in which a material is stored, transported, treated, disposed of, or otherwise handled.

**CONTIGUOUS ZONE** means the entire zone established by the United States under article 24 of the convention of the Territorial Sea and the Contiguous Zone.

**CWA** means the Clean Water Act (formerly referred to the Federal Water Pollution Control Act) Pub. L. 92-500, as amended by Pub. L. 95-217 and Pub. L. 95-576, 33 U.S.C. 1251 et seq.

**DIKE** means any embankment or ridge of either natural or manmade materials used to prevent the movement of liquids, sludges, solids, or other materials.

**DIRECT DISCHARGE** means the discharge of a pollutant as defined below.

**DIRECTOR** means the EPA Regional Administrator or the State Director as the context requires.

**DISCHARGE (OF A POLLUTANT)** means:

- A. Any addition of any pollutant or combination of pollutants to waters of the United States from any point source; or
- B. Any addition of any pollutant or combination of pollutants to the waters of the contiguous zone or the ocean from any point source other than a vessel or other floating craft which is being used as a means of transportation.

This definition includes discharges into waters of the United States from: Surface runoff which is collected or channelled by man; Discharges through pipes, sewers, or other conveyances owned by a State, municipality, or other person which do not lead to POTW's;

and Discharges through pipes, sewers, or other conveyances, leading into privately owned treatment works. This term does not include an addition of pollutants by any indirect discharger.

**DISPOSAL (in the RCRA program)** means the discharge, deposit, injection, dumping, spilling, leaking, or placing of any hazardous waste into or on any land or water so that the hazardous waste or any constituent of it may enter the environment or be emitted into the air or discharged into any waters, including ground water.

**DISPOSAL FACILITY** means a facility or part of a facility at which hazardous waste is intentionally placed into or on land or water, and at which hazardous waste will remain after closure.

**EFFLUENT LIMITATION** means any restriction imposed by the Director on quantities, discharge rates, and concentrations of pollutants which are discharged from point sources into waters of the United States, the waters of the contiguous zone, or the ocean.

**EFFLUENT LIMITATION GUIDELINE** means a regulation published by the Administrator under Section 304(b) of the Clean Water Act to adopt or revise effluent limitations.

**ENVIRONMENTAL PROTECTION AGENCY (EPA)** means the United States Environmental Protection Agency.

**EPA IDENTIFICATION NUMBER** means the number assigned by EPA to each generator, transporter, and facility.

**EXEMPTED AQUIFER** means an aquifer or its portion that meets the criteria in the definition of USDW, but which has been exempted according to the procedures in 40 CFR Section 122.35(b).

**EXISTING HWM FACILITY** means a Hazardous Waste Management facility which was in operation, or for which construction had commenced, on or before October 21, 1976. Construction had commenced if (A) the owner or operator had obtained all necessary Federal, State, and local preconstruction approvals or permits, and either (B1) a continuous on-site, physical construction program had begun, or (B2) the owner or operator had entered into contractual obligations, which could not be cancelled or modified without substantial loss, for construction of the facility to be completed within a reasonable time.

(NOTE: This definition reflects the literal language of the statute. However, EPA believes that amendments to RCRA now in conference will shortly be enacted and will change the date for determining when a facility is an "existing facility" to one no earlier than May of 1980; indications are the conferees are considering October 30, 1980. Accordingly, EPA encourages every owner or operator of a facility which was built or under construction as of the promulgation date of the RCRA program regulations to file Part A of its permit application so that it can be quickly processed for interim status when the change in the law takes effect. When those amendments are enacted, EPA will amend this definition.)

**EXISTING SOURCE** or **EXISTING DISCHARGER (in the NPDES program)** means any source which is not a new source or a new discharger.

**EXISTING INJECTION WELL** means an injection well other than a new injection well.

**FACILITY** means any HWM facility, UIC underground injection well, NPDES point source, PSD stationary source, or any other facility or activity (including land or appurtenances thereto) that is subject to regulation under the RCRA, UIC, NPDES, or PSD programs.

**FLUID** means material or substance which flows or moves whether in a semisolid, liquid, sludge, gas, or any other form or state.

**GENERATOR** means any person by site, whose act or process produces hazardous waste identified or listed in 40 CFR Part 261.

**GROUNDWATER** means water below the land surface in a zone of saturation.

**HAZARDOUS SUBSTANCE** means any of the substances designated under 40 CFR Part 116 pursuant to Section 311 of CWA. (NOTE: These substances are listed in Table 2c-4 of the instructions to Form 2C.)

## SECTION D – GLOSSARY

**HAZARDOUS WASTE** means a hazardous waste as defined in 40 CFR Section 261.3 published May 19, 1980.

**HAZARDOUS WASTE MANAGEMENT FACILITY (HWM facility)** means all contiguous land, structures, appurtenances, and improvements on the land, used for treating, storing, or disposing of hazardous wastes. A facility may consist of several treatment, storage, or disposal operational units (for example, one or more landfills, surface impoundments, or combinations of them).

**IN OPERATION** means a facility which is treating, storing, or disposing of hazardous waste.

**INCINERATOR (in the RCRA program)** means an enclosed device using controlled flame combustion, the primary purpose of which is to thermally break down hazardous waste. Examples of incinerators are rotary kiln, fluidized bed, and liquid injection incinerators.

**INDIRECT DISCHARGER** means a nondomestic discharger introducing pollutants to a publicly owned treatment works.

**INJECTION WELL** means a well into which fluids are being injected.

**INTERIM AUTHORIZATION** means approval by EPA of a State hazardous waste program which has met the requirements of Section 3006(c) of RCRA and applicable requirements of 40 CFR Part 123, Subparts A, B, and F.

**LANDFILL** means a disposal facility or part of a facility where hazardous waste is placed in or on land and which is not a land treatment facility, a surface impoundment, or an injection well.

**LAND TREATMENT FACILITY (in the RCRA program)** means a facility or part of a facility at which hazardous waste is applied onto or incorporated into the soil surface; such facilities are disposal facilities if the waste will remain after closure.

**LISTED STATE** means a State listed by the Administrator under Section 1422 of SDWA as needing a State UIC program.

**MGD** means millions of gallons per day.

**MUNICIPALITY** means a city, village, town, borough, county, parish, district, association, or other public body created by or under State law and having jurisdiction over disposal of sewage, industrial wastes, or other wastes, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under Section 208 of CWA.

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)** means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring, and enforcing permits and imposing and enforcing pretreatment requirements, under Sections 307, 318, 402, and 405 of CWA. The term includes an approved program.

**NEW DISCHARGER** means any building, structure, facility, or installation: (A) From which there is or may be a new or additional discharge of pollutants at a site at which on October 18, 1972, it had never discharged pollutants; (B) Which has never received a finally effective NPDES permit for discharges at that site; and (C) Which is not a "new source." This definition includes an indirect discharger which commences discharging into waters of the United States. It also includes any existing mobile point source, such as an offshore oil drilling rig, seafood processing vessel, or aggregate plant that begins discharging at a location for which it does not have an existing permit.

**NEW HWM FACILITY** means a Hazardous Waste Management facility which began operation or for which construction commenced after October 21, 1976.

**NEW INJECTION WELL** means a well which begins injection after a UIC program for the State in which the well is located is approved.

**NEW SOURCE (in the NPDES program)** means any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

A. After promulgation of standards of performance under Section 306 of CWA which are applicable to such source; or

B. After proposal of standards of performance in accordance with Section 306 of CWA which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal.

**NON-CONTACT COOLING WATER** means water used to reduce temperature which does not come into direct contact with any raw material, intermediate product, waste product (other than heat), or finished product.

**OFF-SITE** means any site which is not "on-site".

**ON-SITE** means on the same or geographically contiguous property which may be divided by public or private right(s)-of-way, provided the entrance and exit between the properties is at a cross-roads intersection, and access is by crossing as opposed to going along, the right(s)-of-way. Non-contiguous properties owned by the same person, but connected by a right-of-way which the person controls and to which the public does not have access, is also considered on-site property.

**OPEN BURNING** means the combustion of any material without the following characteristics;

A. Control of combustion air to maintain adequate temperature for efficient combustion;

B. Containment of the combustion-reaction in an enclosed device to provide sufficient residence time and mixing for complete combustion; and

C. Control of emission of the gaseous combustion products.

(See also "incinerator" and "thermal treatment").

**OPERATOR** means the person responsible for the overall operation of a facility.

**OUTFALL** means a point source.

**OWNER** means the person who owns a facility or part of a facility.

**PERMIT** means an authorization, license, or equivalent control document issued by EPA or an approved State to implement the requirements of 40 CFR Parts 122, 123, and 124.

**PHYSICAL CONSTRUCTION (in the RCRA program)** means excavation, movement of earth, erection of forms or structures, or similar activity to prepare a HWM facility to accept hazardous waste.

**PILE** means any noncontainerized accumulation of solid, nonflowing hazardous waste that is used for treatment or storage.

**POINT SOURCE** means any discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture.

**POLLUTANT** means dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, chemical waste, biological materials, radioactive materials (except those regulated under the Atomic Energy Act of 1954, as amended [42 U.S.C. Section 2011 et seq.]), heat, wrecked or discarded equipment, rocks, sand, cellar dirt and Industrial, municipal, and agriculture waste discharged into water. It does not mean:

A. Sewage from vessels; or

B. Water, gas, or other material which is injected into a well to facilitate production of oil or gas, or water derived in association with oil and gas production and disposed of in a well, if the well used either to facilitate production or for disposal purposes is approved by authority of the State in which the well is located, and if the State determines that the injection or disposal will not result in the degradation of ground or surface water resources.

(NOTE: Radioactive materials covered by the Atomic Energy Act are those encompassed in its definition of source, byproduct, or special nuclear materials. Examples of materials not covered include radium and accelerator produced isotopes. See *Train v. Colorado Public Interest Research Group, Inc.*, 426 U.S. 1 [1976].)

## SECTION D – GLOSSARY

PREVENTION OF SIGNIFICANT DETERIORATION (PSD) means the national permitting program under 40 CFR 52.21 to prevent emissions of certain pollutants regulated under the Clean Air Act from significantly deteriorating air quality in attainment areas.

PRIMARY INDUSTRY CATEGORY means any industry category listed in the NRDC Settlement Agreement (*Natural Resources Defense Council v. Train*, 8 ERC 2120 [D.D.C. 1976], modified 12 ERC 1833 [D.D.C. 1979]).

PRIVATELY OWNED TREATMENT WORKS means any device or system which is: (A) Used to treat wastes from any facility whose operator is not the operator of the treatment works; and (B) Not a POTW.

PROCESS WASTEWATER means any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product.

PUBLICLY OWNED TREATMENT WORKS or POTW means any device or system used in the treatment (*including recycling and reclamation*) of municipal sewage or industrial wastes of a liquid nature which is owned by a State or municipality. This definition includes any sewers, pipes, or other conveyances only if they convey wastewater to a POTW providing treatment.

RENT means use of another's property in return for regular payment.

RCRA means the Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act of 1976 (*Pub. L. 94-580, as amended by Pub. L. 95-609, 42 U.S.C. Section 6901 et seq.*).

ROCK CRUSHING AND GRAVEL WASHING FACILITIES are facilities which process crushed and broken stone, gravel, and riprap (*see 40 CFR Part 436, Subpart B, and the effluent limitations guidelines for these facilities*).

SDWA means the Safe Drinking Water Act (*Pub. L. 95-523, as amended by Pub. L. 95-1900, 42 U.S.C. Section 300ff et seq.*).

SECONDARY INDUSTRY CATEGORY means any industry category which is not a primary industry category.

SEWAGE FROM VESSELS means human body wastes and the wastes from toilets and other receptacles intended to receive or retain body wastes that are discharged from vessels and regulated under Section 312 of CWA, except that with respect to commercial vessels on the Great Lakes this term includes graywater. For the purposes of this definition, "graywater" means galley, bath, and shower water.

SEWAGE SLUDGE means the solids, residues, and precipitate separated from or created in sewage by the unit processes of a POTW. "Sewage" as used in this definition means any wastes, including wastes from humans, households, commercial establishments, industries, and storm water runoff, that are discharged to or otherwise enter a publicly owned treatment works.

SILVICULTURAL POINT SOURCE means any discernable, confined, and discrete conveyance related to rock crushing, gravel washing, log sorting, or log storage facilities which are operated in connection with silvicultural activities and from which pollutants are discharged into waters of the United States. This term does not include nonpoint source silvicultural activities such as nursery operations, site preparation, reforestation and subsequent cultural treatment, thinning, prescribed burning, pest and fire control, harvesting operations, surface drainage, or road construction and maintenance from which there is natural runoff. However, some of these activities (*such as stream crossing for roads*) may involve point source discharges of dredged or fill material which may require a CWA Section 404 permit. "Log sorting and log storage facilities" are facilities whose discharges result from the holding of unprocessed wood, e.g., logs or roundwood with bark or after removal of bark in self-contained bodies of water (*mill ponds or log ponds*) or stored on land where water is applied intentionally on the logs (*wet decking*). (*See 40 CFR Part 429, Subpart J, and the effluent limitations guidelines for these facilities.*)

STATE means any of the 50 States, the District of Columbia, Guam, the Commonwealth of Puerto Rico, the Virgin Islands, American Samoa, the Trust Territory of the Pacific Islands (*except in the case*

*of RCRA*), and the Commonwealth of the Northern Mariana Islands (*except in the case of CWA*).

STATIONARY SOURCE (*in the PSD program*) means any building, structure, facility, or installation which emits or may emit any air pollutant regulated under the Clean Air Act. "Building, structure, facility, or installation" means any grouping of pollutant-emitting activities which are located on one or more contiguous or adjacent properties and which are owned or operated by the same person (*or by persons under common control*).

STORAGE (*in the RCRA program*) means the holding of hazardous waste for a temporary period at the end of which the hazardous waste is treated, disposed, or stored elsewhere.

STORM WATER RUNOFF means water discharged as a result of rain, snow, or other precipitation.

SURFACE IMPOUNDMENT or IMPOUNDMENT means a facility or part of a facility which is a natural topographic depression, manmade excavation, or diked area formed primarily of earthen materials (*although it may be lined with manmade materials*), which is designed to hold an accumulation of liquid wastes or wastes containing free liquids, and which is not an injection well. Examples of surface impoundments are holding, storage, settling, and aeration pits, ponds, and lagoons.

TANK (*in the RCRA program*) means a stationary device, designed to contain an accumulation of hazardous waste which is constructed primarily of non-earthen materials (*e.g., wood, concrete, steel, plastic*) which provide structural support.

THERMAL TREATMENT (*in the RCRA program*) means the treatment of hazardous waste in a device which uses elevated temperature as the primary means to change the chemical, physical, or biological character or composition of the hazardous waste. Examples of thermal treatment processes are incineration, molten salt, pyrolysis, calcination, wet air oxidation, and microwave discharge. (*See also "incinerator" and "open burning"*).

TOTALLY ENCLOSED TREATMENT FACILITY (*in the RCRA program*) means a facility for the treatment of hazardous waste which is directly connected to an industrial production process and which is constructed and operated in a manner which prevents the release of any hazardous waste or any constituent thereof into the environment during treatment. An example is a pipe in which waste acid is neutralized.

TOXIC POLLUTANT means any pollutant listed as toxic under Section 307(a)(1) of CWA.

TRANSPORTER (*in the RCRA program*) means a person engaged in the off-site transportation of hazardous waste by air, rail, highway, or water.

TREATMENT (*in the RCRA program*) means any method, technique, or process, including neutralization, designed to change the physical, chemical, or biological character or composition of any hazardous waste so as to neutralize such waste, or so as to recover energy or material resources from the waste, or so as to render such waste non-hazardous, or less hazardous; safer to transport, store, or dispose of; or amenable for recovery, amenable for storage, or reduced in volume.

UNDERGROUND INJECTION means well injection.

UNDERGROUND SOURCE OF DRINKING WATER or USDW means an aquifer or its portion which is not an exempted aquifer and:

- A. Which supplies drinking water for human consumption; or
- B. In which the ground water contains fewer than 10,000 mg/l total dissolved solids.

UPSET means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

## SECTION D – GLOSSARY

### WATERS OF THE UNITED STATES means:

- A. All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
- B. All interstate waters, including interstate wetlands;
- C. All other waters such as intrastate lakes, rivers, streams (*including intermittent streams*), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, and natural ponds, the use, degradation, or destruction of which would or could affect interstate or foreign commerce including any such waters;
  - 1. Which are or could be used by interstate or foreign travelers for recreational or other purposes,
  - 2. From which fish or shellfish are or could be taken and sold in interstate or foreign commerce,
  - 3. Which are used or could be used for industrial purposes by industries in interstate commerce;
- D. All impoundments of waters otherwise defined as waters of the United States under this definition;
- E. Tributaries of waters identified in paragraphs (A) – (D) above;
- F. The territorial sea; and
- G. Wetlands adjacent to waters (*other than waters that are themselves wetlands*) identified in paragraphs (A) – (F) of this definition.

Waste treatment systems, including treatment ponds or lagoons designed to meet requirement of CWA (*other than cooling ponds as defined in 40 CFR Section 423.11(m) which also meet the criteria of this definition*) are not waters of the United States. This exclusion applies only to manmade bodies of water which neither were originally created in waters of the United States (*such as a disposal area in wetlands*) nor resulted from the impoundments of waters of the United States.

WELL INJECTION or UNDERGROUND INJECTION means the subsurface emplacement of fluids through a bored, drilled, or driven well; or through a dug well, where the depth of the dug well is greater than the largest surface dimension.

WETLANDS means those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

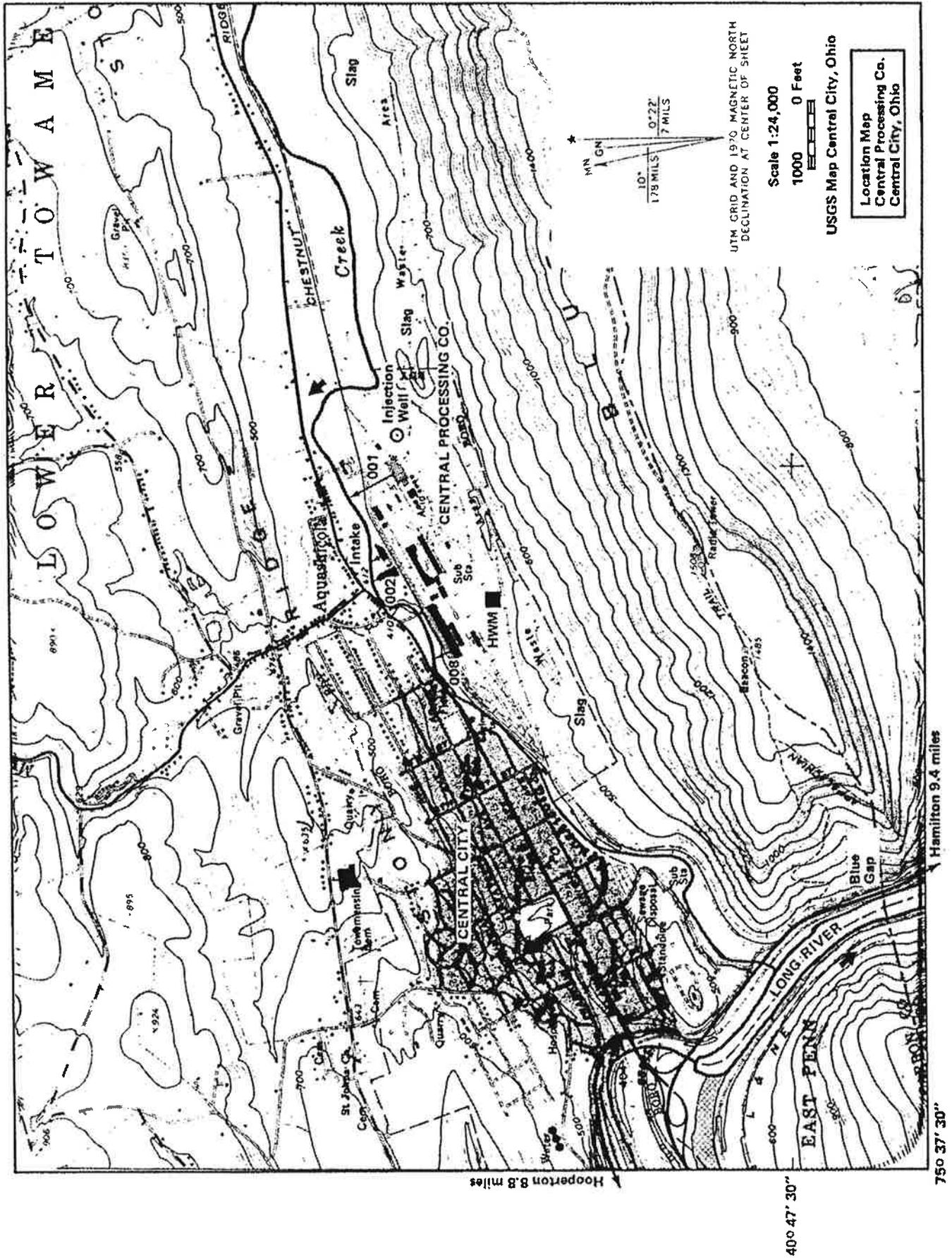


FIGURE 1-1

FORM <b>1</b> GENERAL		U.S. ENVIRONMENTAL PROTECTION AGENCY <b>GENERAL INFORMATION</b> Consolidated Permits Program <i>(Read the "General Instructions" before starting.)</i>	I. EPA I.D. NUMBER S F DED051409290 T/A C D 1 2 13 14 15
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LABEL ITEMS	PLEASE PLACE LABEL IN THIS SPACE
I. EPA I.D. NUMBER	
III. FACILITY NAME	
V. FACILITY MAILING ADDRESS	
VI. FACILITY LOCATION	

**GENERAL INSTRUCTIONS**

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

**II. POLLUTANT CHARACTERISTICS**

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

SPECIFIC QUESTIONS	Mark "X"			SPECIFIC QUESTIONS	Mark "X"		
	YES	NO	FORM ATTACHED		YES	NO	FORM ATTACHED
A. Is this facility a <b>publicly owned treatment works</b> which results in a <b>discharge to waters of the U.S.</b> ? (FORM 2A)		X		B. Does or will this facility (either existing or proposed) include a <b>concentrated animal feeding operation</b> or <b>aquatic animal production facility</b> which results in a <b>discharge to waters of the U.S.</b> ? (FORM 2B)		X	
C. Is this a facility which currently results in <b>discharges to waters of the U.S.</b> 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 <b>discharge to waters of the U.S.</b> ? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of <b>hazardous wastes</b> ? (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 <b>stationary source</b> 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 <b>stationary source</b> 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 <b>attainment area</b> ? (FORM 5)		X	

**III. NAME OF FACILITY**

c	1	SKIP	ALLEN FAMILY FOODS, INC.
15	16 - 29	30	89

**IV. FACILITY CONTACT**

c	2	A. NAME & TITLE (last, first, & title)	B. PHONE (area code & no.)
15	16	Brinson, M. Thomas, Corporate Environmental Manager	(302) 629-9163
45	46	48	49
51	52	55	

**V. FACILITY MAILING ADDRESS**

c	3	A. STREET OR P.O. BOX
15	16	P.O. Box 63
45		

c	4	B. CITY OR TOWN	C. STATE	D. ZIP CODE
15	16	Harbeson	DE	19951
40	41	42	47	51

**VI. FACILITY LOCATION**

c	5	A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER
15	16	18752 Harbeson Road (Route 5)
45		

c	6	B. COUNTY NAME
45	46	Sussex
70		

c	6	C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE (if known)
15	16	Harbeson	DE	19951	NA
40	41	42	47	51	52
					-54

VII. SIC CODES (4-digit, in order of priority)			
A. FIRST		B. SECOND	
C	7 2015 (specify) Poultry Processing	C	7 NA (specify) NA
15	16 - 19	15	16 - 19
C. THIRD		D. FOURTH	
C	7 NA (specify) NA	C	7 NA (specify) NA
15	16 - 19	15	16 - 19

VIII. OPERATOR INFORMATION			
A. NAME			B. Is the name listed in Item VIII-A also the owner? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
C	8 Allen Family Foods, Inc.		55 56
15	16		55 56
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box: if "Other," specify.)			D. PHONE (area code & no.)
F = FEDERAL	M = PUBLIC (other than federal or state)	P (specify) NA	C
S = STATE	O = OTHER (specify)		A
P = PRIVATE			(302) 629-9163
		56	15 16 18 19 21 22 26

E. STREET OR P.O. BOX	
126 N. Shipley Street	
26	55

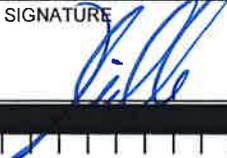
F. CITY OR TOWN		G. STATE	H. ZIP CODE	IX. INDIAN LAND
C	B Seaford	DE	19973	Is the facility located on Indian lands? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
15	16	40 41	42 47 51	52

X. EXISTING ENVIRONMENTAL PERMITS			
A. NPDES (Discharges to Surface Water)		D. PSD (Air Emissions from Proposed Sources)	
C	T I	C	T I
9	N DE 0000299	9	P NA
15	16 17 18	30	15 16 17 18
B. UIC (Underground Injection of Fluids)		E. OTHER (specify)	
C	T I	C	T I
9	U NA	9	89-0002 (specify) State of Delaware Industrial Water Allocation Permit
15	16 17 18	30	15 16 17 18
C. RCRA (Hazardous Wastes)		E. OTHER (specify)	
C	T I	C	T I
9	R NA	9	APC-81/0067-Operation (specify) State of Delaware Air Operation Permit. Currently, Amendment 4 of this permit is effective.
15	16 17 18	30	15 16 17 18

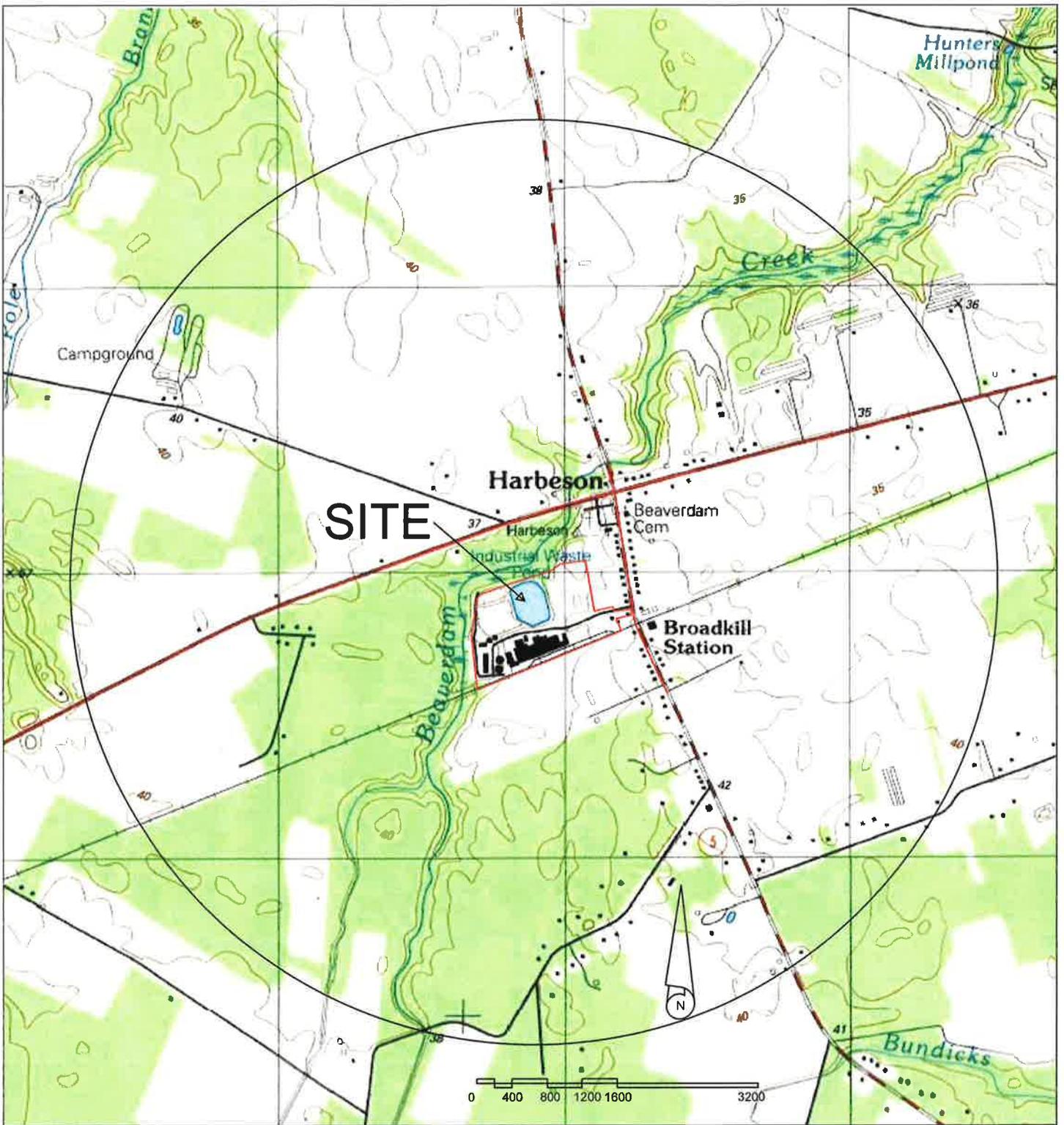
**XI. MAP**  
 Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, 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)**  
 Allen Family Foods, Inc. operates and maintains a poultry processing facility at which live poultry is received, slaughtered, defeathered, eviscerated, chilled, and packed for shipment at 18752 Harbeson Road, Harbeson, DE 19951 (Site). The industrial and sanitary wastewater streams from the poultry plant flow into the Site's Wastewater Treatment Plant (WTP).  
  
 Four (4) outfalls at the Site deliver treated processing water or storm water runoff, or both, to Beaverdam Creek. Treated poultry processing water, sanitary wastewater, and treated storm water are discharged from the site via Outfall 001; storm water runoff, after capture and treatment of at least the first flush, from the screening area, trucks parking, washing and cleaning area, loading and unloading area, and live holding area is discharged via Outfall 002; storm water runoff, after capture and treatment of at least the first flush, from the trucks parking area and live holding shed area is discharged via Outfall 003; and storm water runoff generated on access driveways and the employee parking area is discharged via Outfall 004. No recordable discharges have occurred from Outfalls 002 and 003 during the past three years.

**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) Tom Miller Vice President of Support Services	B. SIGNATURE 	C. DATE SIGNED 10/29/10
--	---	----------------------------

COMMENTS FOR OFFICIAL USE ONLY	
C	
15	16



**Environmental, Inc.**

1103 S. Talbot Street Suite D  
St. Michaels, MD 21663

**SITE LOCATION MAP**

**SCALE: 1" = 1600 ft**

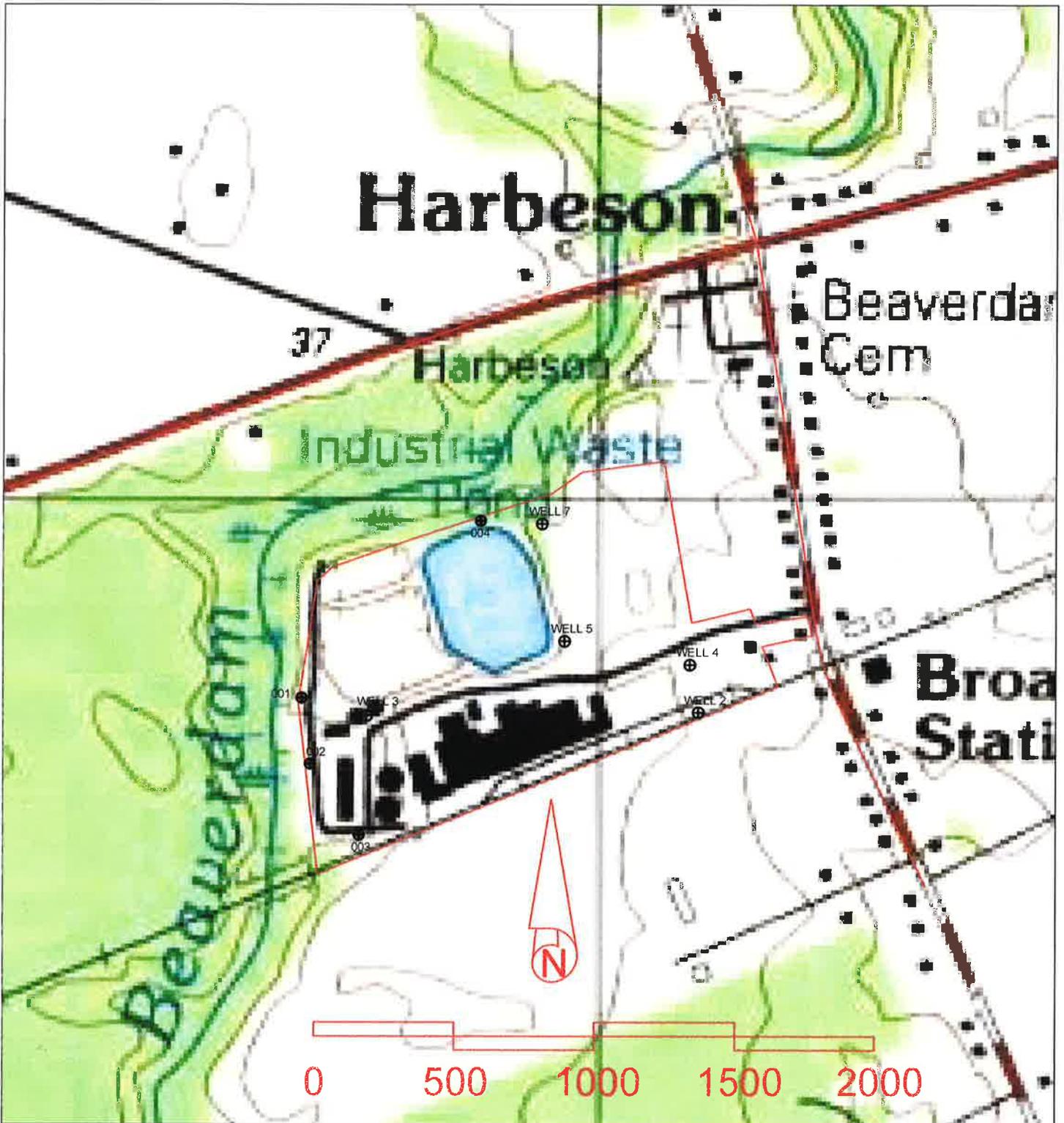
**Prepared For:**

Allen Family Foods, Inc.  
126 N. Shipley Street  
Seaford, DE 19973

**Site:**

Allen Family Foods, Inc.  
18752 Harbeson Rd.  
Harbeson, DE 19951

Date: 10/20/10  
Revision Date:  
Project: AL-130-18  
Drafted by: MK



Environmental, Inc.

1103 S. Talbot Street Suite D  
St. Michaels, MD 21663

**SITE FEATURES**

SCALE: 1" = 500 ft

⊕ SUPPLY WELLS

⊗ OUTFALLS

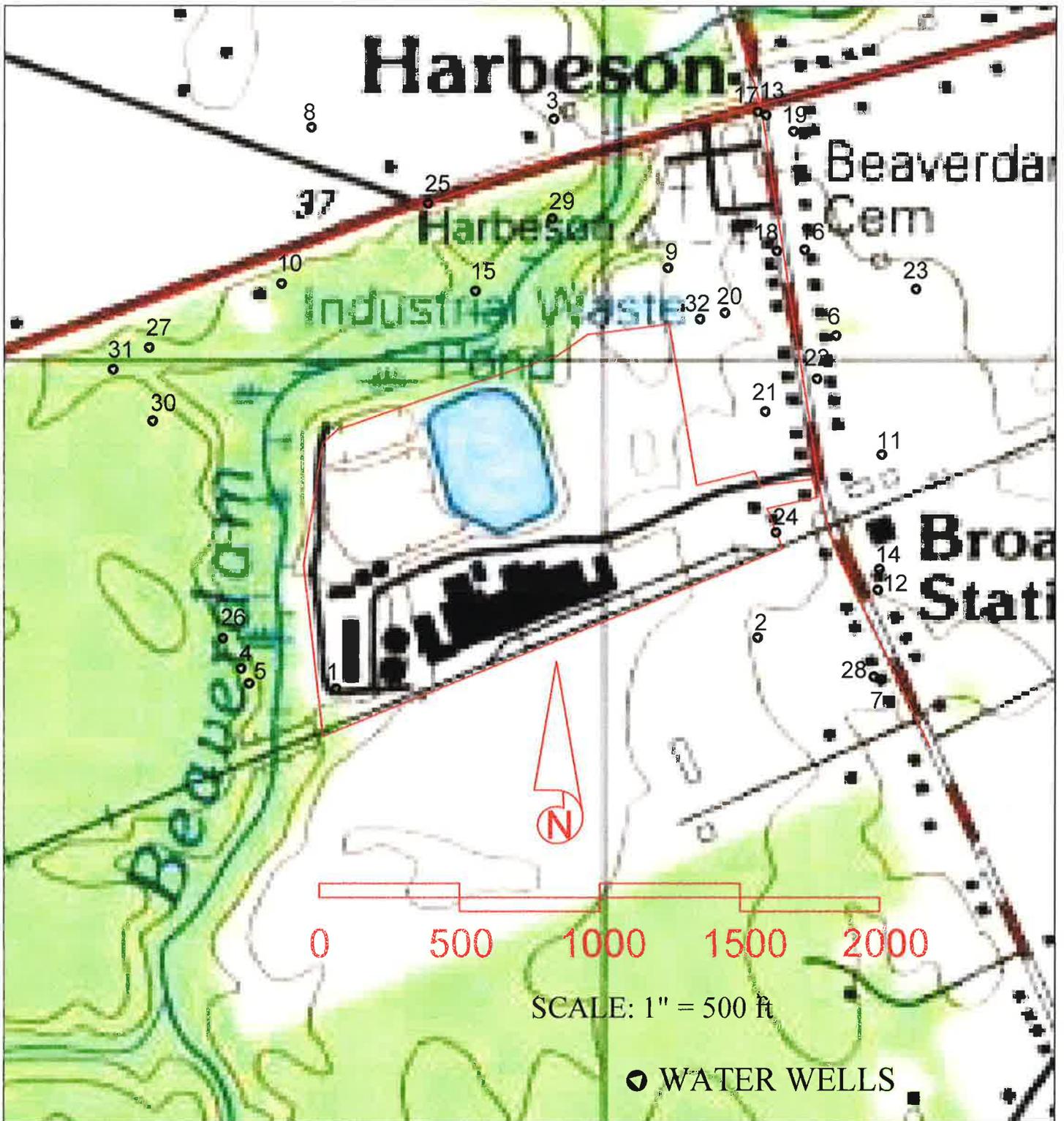
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1103 S. Talbot Street Suite D  
St. Michaels, MD 21663

**WATER WELLS WITHIN 1/4 MILE  
OF SITE**

**SEE ATTACHED TABLE FOR  
WELL INFORMATION**

**Prepared For:**

Allen Family Foods, Inc.  
126 N. Shipley Street  
Seaford, DE 19973

**Site:**

Allen Family Foods, Inc.  
18752 Harbeson Rd.  
Harbeson, DE 19951

Date: 10/20/10  
Revision Date:  
Project: AL-130-18  
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**Water Wells within 1/4 Mile of  
Allen Family Foods, Inc. - Harbeson Facility**

Map ID No	State Permit Number	Local Well	WellType	Owner	TotalDepth	TotalDep_1	DGSId
1	52446		Agricultural - Standard	LeBreton, Leon	0.00	70.00	
2	227572		Agricultural - Standard	Graves, Henry	55.00	0.00	
3	200106		Agricultural - Standard	Lett, Augustine	0.00	70.00	
4	211364		Agricultural - Standard	Beaver Properties	60.00	65.00	
5	211365		Agricultural - Standard	Beaver Properties	60.00	55.00	
6	175260		Domestic - Standard	Karol, Chris	0.00	80.00	
7	190880		Domestic - Standard	Dootson, Jim	0.00	53.00	
8	222095		Domestic - Standard	Prettyman, John Wayne	80.00	94.00	
9	162370		Domestic - Standard	Singley, Darrin & Dawn	0.00	83.00	
10	171744		Domestic - Standard	Hienkle, Ralph	0.00	70.00	
11	35355		Domestic - Standard	Prettyman, Albert	0.00	65.00	
12	225791		Domestic - Standard	Chicosky, David L	80.00	70.00	
13	158391		Domestic - Standard	Karol, Chris	0.00	0.00	
14			Domestic - Standard	Alfree, John T	0.00	180.00	
15	184223		Domestic - Standard	Manuel, Thomas	0.00	70.00	
16	226869		Domestic - Standard	Wagamon, Lydia	60.00	70.00	
17	156740		Domestic - Standard	Hlavacek, Mark & Marion	0.00	70.00	
18	51929		Domestic - Standard	Pase, J Edgar	0.00	60.00	
19	155611		Domestic - Standard	Hellens, Carol	0.00	60.00	
20	214859	Rt 5	Domestic - Standard	Melson, H Page	70.00	70.00	
21	202277		Domestic - Standard	Suthard, Lisa D	0.00	60.00	
22	49530		Domestic - Standard	Neasey, Cartland	0.00	60.00	
23	182350		Domestic - Standard	Sockriter, Linda	0.00	70.00	
24	38079		Domestic - Standard	Suthard, Lisa D	0.00	65.00	
25	156063		Domestic - Standard	Lingo, John	0.00	0.00	
26	220685	15	Domestic - Standard	Equity Homes LLC	80.00	90.00	
27	167991		Domestic - Standard	Cybak, Roman	0.00	69.00	
28	44306		Domestic - Standard	Dootson, Jim	0.00	62.00	
29	153925		Domestic - Standard	Mccall, Mark W	0.00	65.00	
30	158811		Domestic - Standard	Markham, Melissa	0.00	83.00	
31	167610		Domestic - Standard	Markham, Melissa	0.00	58.00	
32	219367		Domestic - Standard	Melson, H Page	70.00	70.00	
	10289	ALLEN'S FAMILY FOODS	Industrial - Standard	LeBreton, Leon	0.00	102.00	
	48815	ALLEN'S FAMILY FOODS	Industrial - Standard	Cargill Inc	0.00	80.00	
	34899	ALLEN'S FAMILY FOODS	Industrial - Standard	LeBreton, Leon	0.00	0.00	
	34900	ALLEN'S FAMILY FOODS	Industrial - Standard	LeBreton, Leon	0.00	0.00	
	38010	4	Industrial - Standard	Paramount Poultry	0.00	90.00	
	40173	5	Industrial - Standard	Allen's Family,	0.00	111.00	
33	221133	Church	Public - Miscellaneous	Harbeson United Methodist Church	120.00	120.00	
34	224328	Harbeson D	Public - Standard	Lingo, John Floyd Trustee	120.00	180.00	
	211078		Public - Standard	Allen Family Foods Inc	150.00	100.00	
	211079		Public - Standard	Allen Family Foods Inc	100.00	105.00	

**Water Wells within 1/4 Mile of  
Allen Family Foods, Inc. - Harbeson Facility**

Map_ID No	State Permit Number	TaxID	SepticPerm	wellauthco	WellStatus	EstMaxCapa	EstDailyUs	RequiresAI
1	52446				Active	15	500	NO
2	227572	2-35-30.00-0104.00	existing	4237974	Issued	20	300	NO
3	200106				Active	25	2000	NO
4	211364	2-35-30.00-0099.03		1226XHDG	Active	20	800	YES
5	211365	2-35-30.00-0099.03		1227XHDG	Active	20	500	YES
6	175260				Active	20	800	NO
7	190880				Active	15	300	NO
8	222095	2-35-30.00-0004.02	213230	4466044	Completed	20	1000	NO
9	162370				Active	15	1000	NO
10	171744				Permit Expired	10	300	NO
11	35355				Active	5	1000	NO
12	225791	2-35-30.00-0136.00	215092	4179447	Completed	10	500	NO
13	158391				Permit Expired	15	400	NO
14					Active	50	200	NO
15	184223				Permit Expired	10	300	NO
16	226869	2-35-30.00-0072.00	existing	5442417	Completed	15	300	NO
17	156740				Active	10	300	NO
18	51929				Active	15	300	NO
19	155611				Active	15	300	NO
20	214859	2-35-30.00-0091.00	existing	2977732	Well Abandoned	25	300	NO
21	202277				Active	12	400	NO
22	49530				Active	15	300	NO
23	182350				Well Abandoned	15	300	NO
24	38079				Pending	10	400	NO
25	156063				Active	15	400	NO
26	220685	2-35-30.00-0322.00	213282	6389069	Completed	20	288	NO
27	167991				Active	15	300	NO
28	44306				Active	30	200	NO
29	153925				Active	10	400	NO
30	158811				Active	10	300	NO
31	167610				Active	15	300	NO
32	219367	2-35-30.00-0091.00	existing	5033867	Completed	20	300	NO
	10289				Active	300	432000	NO
	48815				Active	100	60000	NO
	34899				Active	300	432000	NO
	34900				Active	300	432000	NO
	38010				Pending	400	0	NO
	40173				Active	400	0	NO
33	221133	2-35-30.00-0071.00	210949	3370609	Completed	20	800	NO
34	224328	2-35-30.00-0069.00	150869	4463565	Completed	20	300	NO
	211078	2-35-30.00-0097.00		0919KUQ3	Well Abandoned	50	100	NO
	211079	2-35-30.00-0097.00		1018KUQ3	Active	300	432000	YES

**Water Wells within 1/4 Mile of  
Allen Family Foods, Inc. - Harbeson Facility**

Map_ID_No	State_Permit_Number	EstConstru	ProposedDr	Formation	PumpMaker	PumpIntake	PumpTestRa	PumpRatedC
1	52446	10/29/1982	Jetted	Undetermined		0.00	25.00	0.00
2	22752		Mud Rotary			0.00	0.00	0.00
3	200106		Unknown			0.00	0.00	0.00
4	211364	12/26/2005	Mud Rotary	Undetermined	GOULDS	40.00	20.00	20.00
5	211365	12/02/2005	Mud Rotary	Undetermined	GOULDS	40.00	20.00	20.00
6	175260	10/31/2000	Mud Rotary	Undetermined		0.00	25.00	0.00
7	190880	12/09/2002	Mud Rotary	Undetermined		0.00	50.00	0.00
8	222095		Mud Rotary	Undetermined		0.00	80.00	0.00
9	162370	01/27/1999	Mud Rotary	Undetermined		30.00	70.00	20.00
10	171744		Unknown			0.00	0.00	0.00
11	35355	12/29/1975	Driven			0.00	15.00	5.00
12	225791		Mud Rotary	Undetermined		0.00	40.00	0.00
13	158391		Unknown			0.00	0.00	0.00
14		07/14/1999	Mud Rotary	Undetermined		0.00	0.00	0.00
15	184223		Unknown			0.00	0.00	0.00
16	226869		Mud Rotary	Undetermined		0.00	15.00	0.00
17	156740	03/17/1998	Mud Rotary	Undetermined		50.00	30.00	10.00
18	51929	09/23/1982	Jetted	Undetermined		3.00	30.00	8.00
19	155611	01/02/1998	Mud Rotary	Undetermined		0.00	25.00	8.00
20	214859		Mud Rotary	Undetermined		0.00	25.00	0.00
21	202277	08/20/2004	Mud Rotary	Undetermined		0.00	10.00	0.00
22	49530	10/02/1981	Jetted	Undetermined		30.00	25.00	8.00
23	182350	11/07/2001	Mud Rotary	Undetermined		28.00	60.00	8.00
24	38079	04/13/1977	Mud Rotary	Undetermined		0.00	50.00	0.00
25	156063	02/16/1998	Mud Rotary	Undetermined		30.00	30.00	8.00
26	220685		Mud Rotary	Undetermined		0.00	50.00	0.00
27	167991	01/04/2000	Mud Rotary	Undetermined		0.00	100.00	0.00
28	44306	09/10/1979	Jetted	Undetermined		0.00	10.00	0.00
29	153925	12/01/1997	Mud Rotary	Undetermined		2.00	20.00	10.00
30	158811	07/17/1998	Mud Rotary	Undetermined		35.00	75.00	10.00
31	167610	10/12/1999	Mud Rotary	Undetermined		0.00	75.00	0.00
32	219367		Mud Rotary	Undetermined		0.00	30.00	0.00
	10289	01/01/1967	Other			0.00	0.00	0.00
	48815	08/21/1981	Mud Rotary	Undetermined		42.00	100.00	50.00
	34899	12/15/1975	Reverse Rotary	Columbia Gp		0.00	0.00	0.00
	34900	11/11/1975	Reverse Rotary	Columbia Gp		0.00	0.00	0.00
	38010	06/15/1977	Mud Rotary	Undetermined		0.00	297.00	0.00
	40173	04/25/1978	Unknown	Undetermined		0.00	238.00	0.00
33	221133		Mud Rotary	Undetermined		0.00	50.00	0.00
34	224328		Mud Rotary	Undetermined		0.00	50.00	0.00
	211078	08/11/2005	Air Rotary	Undetermined		0.00	0.00	0.00
	211079	10/18/2005	Reverse Rotary	Undetermined	NONE	0.00	525.00	0.00

Water Wells within 1/4 Mile of  
Allen Family Foods, Inc. - Harbeson Facility

Map ID No	State Permit Number	PumpTestTi	PumpingWat	RetainWell	StaticWate	WaterLevel	WellTermin	WellTermin
1	52446	0.500000000000	22.00 0		12.00	10/29/1982	12.00	Other
2	227572	0.000000000000	0.00 N		0.00		0.00	
3	200106	0.000000000000	0.00 0		0.00		8.00	None
4	211364	2.000000000000	5.00		5.00	02/02/2006	8.00	Pitless Adaptor
5	211365	2.000000000000	6.00		6.00	02/02/2006	8.00	Pitless Adaptor
6	175260	1.000000000000	12.00 0		6.00	10/31/2000	12.00	Other
7	190880	2.000000000000	20.00 0		16.25	12/09/2002	8.00	Other
8	222095	2.000000000000	14.00 N		9.00	11/28/2007	8.00	Pitless Adaptor
9	162370	2.000000000000	16.00 0		-8.00	01/27/1999	0.00	Pitless Adaptor
10	171744	0.000000000000	0.00 0		0.00		8.00	None
11	35355	0.500000000000	18.00 0		12.00	12/29/1975	8.00	None
12	225791	1.000000000000	18.00 N		17.00	09/22/2008	8.00	Pitless Adaptor
13	158391	0.000000000000	0.00 0		0.00		0.00	None
14		0.000000000000	0.00 0		20.00	07/14/1999	10.00	Standard T
15	184223	0.000000000000	0.00 0		0.00		8.00	None
16	226869	0.500000000000	0.00 N		12.00	02/02/2009	12.00	Standard T
17	156740	3.000000000000	17.00 0		-7.00	03/17/1998	12.00	Pitless Adaptor
18	51929	0.500000000000	25.00 0		14.00	09/23/1982	8.00	Other
19	155611	0.500000000000	18.00 0		10.00	01/02/1998	12.00	Standard T
20	214859	1.000000000000	25.00 N		17.00	07/12/2006	12.00	None
21	202277	1.000000000000	10.00 0		10.00	08/20/2004	10.00	None
22	49530	0.500000000000	23.00 0		13.00	10/02/1981	8.00	Other
23	182350	0.000000000000	17.00 0		15.00	11/07/2001	12.00	Standard T
24	38079	2.000000000000	19.00 0		15.00	04/13/1977	8.00	None
25	156063	0.500000000000	0.00 0		5.00	02/16/1998	12.00	Standard T
26	220685	2.000000000000	20.00 N		10.00	08/15/2007	12.00	Pitless Adaptor
27	167991	2.000000000000	20.00 0		-8.25	01/04/2000	16.00	Other
28	44306	1.000000000000	18.00 0		18.00	09/10/1979	0.00	None
29	153925	2.000000000000	0.00 0		-4.00	12/01/1997	8.00	Standard T
30	158811	2.000000000000	16.00 0		-9.00	07/17/1998	12.00	Pitless Adaptor
31	167610	2.000000000000	18.00 0		-9.75	10/12/1999	8.00	Other
32	219367	1.000000000000	20.00 N		15.00	05/16/2007	12.00	Pitless Adaptor
	10289	0.000000000000	0.00 0		0.00		0.00	
	48815	4.000000000000	12.00 0		-8.00	09/24/1981	18.00	Pitless Adaptor
	34899	0.000000000000	0.00 0		0.00		0.00	
	34900	0.000000000000	0.00 0		0.00		0.00	
	38010	8.000000000000	26.00 0		19.00	06/15/1977	24.00	Other
	40173	6.000000000000	20.00 0		16.00	04/25/1978	30.00	Other
33	221133	1.000000000000	21.00 N		4.00	10/23/2007	12.00	Pitless Adaptor
34	224328	2.000000000000	20.00 N		12.00	06/17/2008	12.00	Pitless Adaptor
	211078	0.000000000000	0.00		0.00	10/13/2005	0.00	Standard T
	211079	8.000000000000	18.00		9.00	12/01/2005	24.00	Pitless Adaptor

Water Wells within 1/4 Mile of  
Allen Family Foods, Inc. - Harbeson Facility

Map_ID_No	State_Permit_Number	Replacemen	ReplacedWe	WellAbando	WellAban_1	LocalID	WellCommen	AppRecDate
1	52446					Rt 5		10/25/1982
2	227572	N						03/26/2009
3	200106					Rt 9		03/24/2004
4	211364			Bad Water			1	09/02/2005
5	211365			Bad Water			1	09/02/2005
6	175260	Y				Lots 12&13		10/25/2000
7	190880	Y				Rt. 5		12/04/2002
8	222095	N						11/20/2007
9	162370					lot 10		12/16/1998
10	171744					Lot 14		04/26/2000
11	35355	Y				Rt 5		12/29/1975
12	225791	N						09/16/2008
13	158391	Y				RT 5		05/27/1998
14		Y				Emergency		08/12/1999
15	184223					Lot 17		02/22/2002
16	226869	N						01/05/2009
17	156740					lot 8		02/27/1998
18	51929	Y				Rt 9		09/01/1982
19	155611					Rt 5		12/16/1997
20	214859	N						05/19/2006
21	202277					Rt 5		06/28/2004
22	49530	Y				Rt 5		10/02/1981
23	182350	Y				RT 5		11/09/2001
24	38079	Y				Rt 5		04/21/1977
25	156063					Lot 1D		01/21/1998
26	220685	N						08/13/2007
27	167991					lot 13		09/27/1999
28	44306	Y				Rt 5		08/25/1979
29	153925					lot 18		09/24/1997
30	158811					lot 9		06/04/1998
31	167610					lot 11		09/07/1999
32	219367	N						05/16/2007
	10289					6		01/01/1967
	48815					3		06/23/1981
	34899	Y				1		08/26/1975
	34900	Y				2		08/26/1975
	38010	Y				4		05/04/1977
	40173	Y				5		12/22/1977
33	221133	N						09/11/2007
34	224328	N						06/05/2008
	211078			Bad Water				08/10/2005
	211079			Bad Water		7	1	08/10/2005

Water Wells within 1/4 Mile of  
Allen Family Foods, Inc. - Harbeson Facility

Map_ID_No	State_Permit_Number	LocReviewID	ProposedCo	PermitAppr	ActualCon	Completion	AbandonRep	Reclassify	Potable
1	52446	10/25/1982	10/25/1982	10/25/1982		10/29/1982			No
2	227572	03/26/2009	03/26/2009	03/26/2009		03/26/2009			No
3	200106	03/24/2004	03/24/2004	03/24/2004		03/24/2004			No
4	211364	09/02/2005	09/16/2005	09/16/2005		12/26/2005			No
5	211365	09/02/2005	09/16/2005	09/16/2005		12/27/2005			No
6	175260	10/25/2000	10/25/2000	10/25/2000		10/31/2000			No
7	190880	12/04/2002	12/04/2002	12/04/2002		12/09/2002			No
8	222095	11/20/2007	11/27/2007	11/27/2007		12/17/2007			Yes
9	162370	12/16/1998	12/16/1998	12/16/1998		01/27/1999			No
10	171744	04/26/2000	04/26/2000	04/26/2000					No
11	35355	12/29/1975	12/29/1975	12/29/1975		12/29/1975			No
12	225791	09/17/2008	09/19/2008	09/19/2008		09/30/2008			Yes
13	158391	05/27/1998	05/27/1998	05/27/1998					No
14		08/12/1999	08/12/1999	08/12/1999		07/14/1999			No
15	184223	02/22/2002	02/22/2002	02/22/2002					No
16	226869	01/06/2009	01/14/2009	01/14/2009		03/11/2009			Yes
17	156740	02/27/1998	02/27/1998	02/27/1998		03/17/1998			No
18	51929	09/01/1982	09/01/1982	09/01/1982		09/23/1982			No
19	155611	12/16/1997	12/16/1997	12/16/1997		01/02/1998			No
20	214859	05/22/2006	06/05/2006	06/05/2006		08/11/2006	05/16/2007		Yes
21	202277	06/28/2004	06/28/2004	06/28/2004		08/20/2004			No
22	49530	10/02/1981	10/02/1981	10/02/1981		10/02/1981			No
23	182350	11/09/2001	11/09/2001	11/09/2001		11/07/2001			No
24	38079	04/21/1977	04/21/1977	04/21/1977		04/13/1977			No
25	156063	01/21/1998	01/21/1998	01/21/1998		02/16/1998			No
26	220685	08/15/2007	08/15/2007	08/15/2007		08/27/2007			Yes
27	167991	09/27/1999	09/27/1999	09/27/1999		01/04/2000			No
28	44306	08/25/1979	08/25/1979	08/25/1979		09/10/1979			No
29	153925	09/24/1997	09/24/1997	09/24/1997		12/01/1997			No
30	158811	06/04/1998	06/04/1998	06/04/1998		07/17/1998			No
31	167610	09/07/1999	09/07/1999	09/07/1999		10/12/1999			No
32	219367	05/16/2007	05/16/2007	05/16/2007		06/21/2007			Yes
	10289	01/01/1951	01/01/1967	01/01/1967		01/01/1967			No
	48815	06/23/1981	06/23/1981	06/23/1981		08/21/1981			No
	34899	08/26/1975	08/26/1975	08/26/1975		12/15/1975			No
	34900	08/26/1975	08/26/1975	08/26/1975		11/11/1975			No
	38010	05/04/1977	05/04/1977	05/04/1977		06/15/1977			No
	40173	12/22/1977	12/22/1977	12/22/1977		04/25/1978			No
33	221133	09/11/2007	10/18/2007	10/19/2007		10/30/2007			Yes
34	224328	06/06/2008	06/13/2008	06/17/2008		06/18/2008			Yes
	211078	08/11/2005	08/29/2005	08/29/2005		09/19/2005	12/06/2005		Yes
	211079	08/10/2005	09/27/2005	09/27/2005		10/18/2005			Yes

Water Wells within 1/4 Mile of  
Allen Family Foods, Inc. - Harbeson Facility

Map ID No	State_Permit_Number	TestTemp	GMZ	WellPit	Replacem_1	AllocRevie	Sampled	CPCN	AgPrecDist	Floodplain	SmallLot	Injection	PCIV	Emergency
1	52446	No	No	No	No	No	No	No	No	No	No	No	No	No
2	227572	No	No	No	No	No	No	No	No	No	No	No	Yes	No
3	200106	No	No	No	No	No	No	No	No	No	No	No	No	No
4	211364	Yes	No	No	No	No	No	No	No	No	No	No	No	No
5	211365	No	No	No	No	No	No	No	No	No	No	No	No	No
6	175260	No	No	No	No	No	No	No	No	No	No	No	No	No
7	190880	No	No	No	No	No	No	No	No	No	No	No	No	No
8	222095	No	No	No	No	No	No	No	No	No	No	No	No	No
9	162370	No	No	No	No	No	No	No	No	No	No	No	No	No
10	171744	No	No	No	No	No	No	No	No	No	No	No	No	No
11	35355	No	No	No	No	No	No	No	No	No	No	No	No	No
12	225791	No	Yes	No	Yes	No	No	Yes	No	No	No	No	Yes	No
13	158391	No	No	No	No	No	No	No	No	No	No	No	No	No
14		No	No	No	No	No	No	No	No	No	No	No	No	No
15	184223	No	No	No	No	No	No	No	No	No	No	No	No	No
16	226869	No	Yes	No	Yes	No	No	No	No	No	No	No	No	No
17	156740	No	No	No	No	No	No	No	No	No	No	No	No	No
18	51929	No	No	No	No	No	No	No	No	No	No	No	No	No
19	155611	No	No	No	No	No	No	No	No	No	No	No	No	No
20	214859	No	No	No	No	No	No	No	No	No	No	No	Yes	No
21	202277	No	No	No	No	No	No	No	No	No	No	No	No	No
22	49530	No	No	No	No	No	No	No	No	No	No	No	No	No
23	182350	No	No	No	No	No	No	No	No	No	No	No	No	No
24	38079	No	No	No	No	No	No	No	No	No	No	No	No	No
25	156063	No	No	No	No	No	No	No	No	No	No	No	No	No
26	220685	No	No	No	No	No	No	No	No	No	No	No	No	No
27	167991	No	No	No	No	No	No	No	No	No	No	No	No	No
28	44306	No	No	No	No	No	No	No	No	No	No	No	No	No
29	153925	No	No	No	No	No	No	No	No	No	No	No	No	No
30	158811	No	No	No	No	No	No	No	No	No	No	No	No	No
31	167610	No	No	No	No	No	No	No	No	No	No	No	No	No
32	219367	No	No	No	No	No	No	No	No	No	No	No	Yes	No
	10289	No	No	No	No	No	No	No	No	No	No	No	No	No
	48815	No	No	No	No	No	No	No	No	No	No	No	No	No
	34899	No	No	No	No	No	No	No	No	No	No	No	No	No
	34900	No	No	No	No	No	No	No	No	No	No	No	No	No
	38010	No	No	No	No	No	No	No	No	No	No	No	No	No
	40173	No	No	No	No	No	No	No	No	No	No	No	No	No
33	221133	No	Yes	No	No	No	Yes	No	No	No	No	No	No	No
34	224328	No	Yes	No	Yes	No	Yes	No	No	No	No	No	No	No
	211078	Yes	No	No	No	Yes	Yes	No	No	No	No	No	Yes	No
	211079	No	No	No	No	Yes	Yes	No	No	No	No	No	Yes	No





Water Wells within 1/4 Mile of  
Allen Family Foods, Inc. - Harbeson Facility

Map_ID_No	State_Permit_Number	basin	USGSHydrol	LicenseNum	WellContra
1	52446	Delaware Bay	02040207	4058	Walter E Welldriler
2	227572	Delaware Bay	02040207		
3	200106	Delaware Bay	02040207	4266	Burns Well Drilling
4	211364	Delaware Bay	02040207	282	S Preston English
5	211365	Delaware Bay	02040207	282	S Preston English
6	175260	Delaware Bay	02040207	13	Daiseys Well Drilling
7	190880	Delaware Bay	02040207		
8	222095	Delaware Bay	02040207	1	White Drilling Corporation
9	162370	Delaware Bay	02040207	1	White Drilling Corporation
10	171744	Delaware Bay	02040207	8	Allied Water Services
11	35355	Delaware Bay	02040207	4058	Walter E Welldriler
12	225791	Delaware Bay	02040207	5374	Draper Environmental Services
13	158391	Delaware Bay	02040207		
14		Delaware Bay	02040207	319	Weber's Well Drilling Inc
15	184223	Delaware Bay	02040207		
16	226869	Delaware Bay	02040207	161	Duffys Well Drilling
17	156740	Delaware Bay	02040207	789	Atlantic Well Drilling Inc
18	51929	Delaware Bay	02040207	4058	Walter E Welldriler
19	155611	Delaware Bay	02040207	50	Ernest L Smith
20	214859	Delaware Bay	02040207	161	Duffys Well Drilling
21	202277	Delaware Bay	02040207	257	Wooten's Well Drilling
22	49530	Delaware Bay	02040207	4058	Walter E Welldriler
23	182350	Delaware Bay	02040207	4091	Alan Daisey Well Drilling Inc
24	38079	Delaware Bay	02040207	7	Burns Well Drilling Inc
25	156063	Delaware Bay	02040207	50	Ernest L Smith
26	220685	Delaware Bay	02040207	4427	Aquatech Water Specialties, LLC
27	167991	Delaware Bay	02040207		
28	44306	Delaware Bay	02040207	319	Weber's Well Drilling Inc
29	153925	Delaware Bay	02040207	282	S Preston English
30	158811	Delaware Bay	02040207	789	Atlantic Well Drilling Inc
31	167610	Delaware Bay	02040207		
32	219367	Delaware Bay	02040207	161	Duffys Well Drilling
	10289	Delaware Bay	02040207		
	48815	Inland Bays/Atlantic Ocean	02060010	14	A C Schultes Of Delaware
	34899	Delaware Bay	02040207	40	Shannahan Artesian Well Co Inc
	34900	Delaware Bay	02040207	40	Shannahan Artesian Well Co Inc
	38010	Delaware Bay	02040207	40	Shannahan Artesian Well Co Inc
	40173	Delaware Bay	02040207	40	Shannahan Artesian Well Co Inc
33	221133	Delaware Bay	02040207	13	Daiseys Well Drilling
34	224328	Delaware Bay	02040207	4427	Aquatech Water Specialties, LLC
	211078	Delaware Bay	02040207	14	A C Schultes Of Delaware
	211079	Delaware Bay	02040207	14	A C Schultes Of Delaware

**Water Wells within 1/4 Mile of  
Allen Family Foods, Inc. - Harbeson Facility**

Map_ID_No	State_Permit_Number	OwnerAddr	GroutTop	GroutBase	GroutMater	graveTop
1	52446	PO Box 676, Lewes, DE 19958 US	0.00	55.00	Neat Cement	60.00
2	227572	18782 Harbeson Road, Harbeson, DE 19951 US	0.00	0.00		0.00
3	200106	302 Bayard Avenue, Rehoboth Beach, DE 19971 US	0.00	0.00		0.00
4	211364	19115 Freeland Lane, Bridgeville, DE 19933 US	0.00	20.00	Bentonite	55.00
5	211365	19115 Freeland Lane, Bridgeville, DE 19933 US	0.00	20.00	Bentonite	45.00
6	175260	PO Box 31, Harbeson, DE 19951 US	3.00	68.00	Bentonite	0.00
7	190880	120 Village Drive, Boyertown, PA 19512 US	0.00	40.00	Bentonite	53.00
8	222095	18939 Harbeson Road, Harbeson, DE 19951 US	0.00	20.00	Bentonite	73.00
9	162370	PO Box 754, Lewes, DE 19958 US	0.00	70.00	Bentonite	70.00
10	171744	41 Bryan Drive, Rehoboth Beach, DE 19971 US	0.00	0.00		0.00
11	35355		0.00	0.00		0.00
12	225791	PO Box 454, Paulsboro, NJ 08088 US	0.00	50.00	Bentonite	50.00
13	158391	PO Box 31, Harbeson, DE 19951 US	0.00	0.00		0.00
14		150 East 4th Street, New Castle, DE 19720 US	0.00	140.00	Bentonite	170.00
15	184223	114 Jefferson Avenue, Wilmington, DE 19805 US	0.00	0.00		0.00
16	226869	PO Box 5, Harbeson, DE 19951 US	0.00	20.00	Bentonite	60.00
17	156740	25 Sweetbriar, Lewes, DE 19958 US	0.00	45.00	Bentonite	50.00
18	51929	PO Box 23, Harbeson, DE 19951 US	0.00	0.00		50.00
19	155611	Rt 5 Box 3, Harbeson, DE 19957 US	0.00	40.00	Bentonite	50.00
20	214859	PO Box 171, Harbeson, DE 19951 US	0.00	20.00	Bentonite	60.00
21	202277	PO Box 33, Harbeson, DE 19951 US	0.00	20.00	Bentonite	40.00
22	49530		0.00	0.00		50.00
23	182350	PO Box 27, Harbeson, DE 19951 US	0.00	20.00	Bentonite	60.00
24	38079	PO Box 33, Harbeson, DE 19951 US	0.00	0.00		60.00
25	156063	Rd 4 Box 164, Georgetown, DE 19947 US	0.00	40.00	Bentonite	55.00
26	220685	4035 Ridge Top Road, Suite 150, Fairfax, VA 22030 US	0.00	25.00	Bentonite	77.00
27	167991	2622 Abington Road, Dartmouth Woods, Wilmington, DE 19810 US	0.00	40.00	Bentonite	64.00
28	44306	120 Village Drive, Boyertown, PA 19512 US	0.00	52.00	Other	52.00
29	153925	19 Cherry Creek Valley, Lewes, DE 19958 US	0.00	20.00	Bentonite	55.00
30	158811	PO Box 416, Lewes, DE 19958 US	0.00	50.00	Bentonite	60.00
31	167610	PO Box 416, Lewes, DE 19958 US	0.00	40.00	Bentonite	53.00
32	219367	PO Box 171, Harbeson, DE 19951 US	0.00	60.00	Natural	60.00
	10289	PO Box 676, Lewes, DE 19958 US	0.00	0.00		0.00
	48815	Paramount Poultry, PO Box 88, Frankford, DE 19945 US	0.00	25.00	Bentonite	30.00
	34899	PO Box 676, Lewes, DE 19958 US	0.00	60.00	Neat Cement	0.00
	34900	PO Box 676, Lewes, DE 19958 US	0.00	59.00	Neat Cement	0.00
	38010	No Address Found, Harbeson, DE 19951 US	0.00	60.00	Neat Cement	1.00
	40173		0.00	68.00	Neat Cement	1.00
33	221133	20123 Feathering Lane, Milton, DE 19968 US	0.00	105.00	Bentonite	0.00
34	224328	24788 Lewes Georgetown Highway, Georgetown, DE 19947 US	0.00	160.00	Bentonite	165.00
	211078	126 North Shipley Street, Seaford, DE 19973 US	0.00	50.00	Bentonite	50.00
	211079	126 North Shipley Street, Seaford, DE 19973 US	0.00	55.00	Bentonite/Cement Mixture	55.00

Water Wells within 1/4 Mile of  
Allen Family Foods, Inc. - Harbeson Facility

Map_ID_No	State_Permit_Number	gravelBase	GravelMate	InnerCasin	InnerCas_1	InnerCas_2
1	52446	70.00	Gravel	0.00	60.00	PVC
2	227572	0.00		0.00	0.00	
3	200106	0.00		0.00	0.00	
4	211364	65.00	Gravel	0.00	55.00	PVC
5	211365	55.00	Gravel	0.00	45.00	PVC
6	175260	0.00		0.00	0.00	
7	190880	58.00	Gravel	0.00	53.00	PVC
8	222095	88.00	Gravel	0.00	78.00	PVC
9	162370	83.00	Gravel	0.00	76.00	PVC
10	171744	0.00		0.00	0.00	
11	35355	0.00		0.00	0.00	
12	225791	70.00	Gravel	0.00	60.00	PVC
13	158391	0.00		0.00	0.00	
14		180.00	Gravel	0.00	170.00	PVC
15	184223	0.00		0.00	0.00	
16	226869	70.00	Gravel	0.00	60.00	PVC
17	156740	70.00	Gravel	0.00	60.00	PVC
18	51929	60.00	Gravel	0.00	50.00	PVC
19	155611	60.00	Gravel	0.00	50.00	PVC
20	214859	70.00	Gravel	0.00	60.00	PVC
21	202277	50.00	Gravel	0.00	50.00	PVC
22	49530	60.00	Gravel	0.00	50.00	PVC
23	182350	70.00	Gravel	0.00	60.00	PVC
24	38079	65.00	Gravel	0.00	0.00	
25	156063	65.00	Gravel	0.00	55.00	PVC
26	220685	87.00	Gravel	0.00	80.00	PVC
27	167991	69.00	Gravel	0.00	64.00	PVC
28	44306	62.00	Gravel	0.00	52.00	PVC
29	153925	65.00	Gravel	0.00	55.00	PVC
30	158811	83.00	Gravel	0.00	73.00	PVC
31	167610	58.00	Gravel	0.00	53.00	PVC
32	219367	70.00	Gravel	0.00	60.00	PVC
	10289	0.00		0.00	0.00	
	48815	80.00	Gravel	0.00	70.00	Steel
	34899	106.00	Gravel	0.00	65.00	Steel
	34900	88.00	Gravel	0.00	59.00	Steel
	38010	90.00	Gravel	0.00	60.00	Steel
	40173	111.00	Gravel	0.00	71.00	Steel
33	221133	0.00		0.00	115.00	PVC
34	224328	177.00	Gravel	0.00	167.00	PVC
	211078	100.00	Gravel	0.00	75.00	PVC
	211079	105.00	Gravel	0.00	79.00	Galvanized

# EPA FORM 2C

# Disclaimer

This is an updated PDF document that allows you to type your information directly into the form, print it, and save the completed form.

Note: This form can be viewed and saved only using Adobe Acrobat Reader version 7.0 or higher, or if you have the full Adobe Professional version.

**Instructions:**

1. Type in your information
2. Save file (if desired)
3. Print the completed form
4. Sign and date the printed copy
5. Mail it to the directed contact.

Permits Division



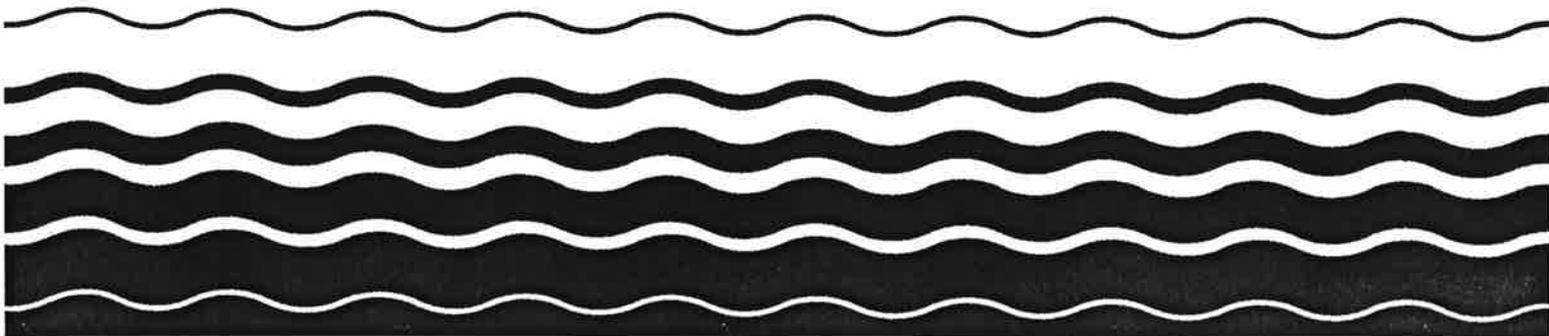
# Application Form 2C – Wastewater Discharge Information

## Consolidated Permits Program

This form must be completed by all persons applying for an EPA permit to discharge wastewater (*existing manufacturing, commercial, mining, and silvicultural operations*).



Printed on recycled paper



### **Paperwork Reduction Act Notice**

The public reporting burden for this collection of information is estimated to average 33 hours per response. This estimate includes time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information to the Chief, Information Policy Branch (PM-223), US Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503, marked **Attention:** Desk Officer for EPA.



**INSTRUCTIONS – FORM 2c**  
**Application for Permit to Discharge Wastewater**  
**EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURAL OPERATIONS**

This form must be completed by all applicants who check "yes" to item II-C in Form 1.

**Public Availability of Submitted Information.**

Your application will not be considered complete unless you answer every question on this form and on Form 1. If an item does not apply to you, enter "NA" (*for not applicable*) to show that you considered the question.

You may not claim as confidential any information required by this form or Form 1, whether the information is reported on the forms or in an attachment. This information will be made available to the public upon request.

Any information you submit to EPA which goes beyond that required by this form or Form 1 you may claim as confidential, but claims for information which is effluent data will be denied. If you do not assert a claim of confidentiality at the time of submitting the information, EPA may make the information public without further notice to you. Claims of confidentiality will be handled in accordance with EPA's business confidentiality regulations at 40 CFR Part 2.

**Definitions**

All significant terms used in these instructions and in the form are defined in the glossary found in the General Instructions which accompany Form 1.

**EPA ID Number**

Fill in your EPA Identification Number at the top of each page of Form 2c. You may copy this number directly from item I of Form 1.

**Item I**

You may use the map you provided for item XI of Form 1 to determine the latitude and longitude of each of your outfalls and the name of the receiving water.

**Item II-A**

The line drawing should show generally the route taken by water in your facility from intake to discharge. Show all operations contributing wastewater, including process and production areas, sanitary flows, cooling water, and stormwater runoff. You may group similar operations into a single unit, labeled to correspond to the more detailed listing in item II-B. The water balance should show average flows. Show all significant losses of water to products, atmosphere, and discharge. You should use actual measurements whenever available; otherwise use your best estimate. An example of an acceptable line drawing appears in Figure 2c-1 to these instructions.

**Item II-B**

List all sources of wastewater to each outfall. Operations may be described in general terms (*for example, "dye-making reactor" or "distillation tower"*). You may estimate the flow contributed by each source if no data are available. For stormwater discharges you may estimate the average flow, but you must indicate the rainfall event upon which the estimate is based and the method of estimation. For each treatment unit, indicate its size, flow rate, and retention time, and describe the ultimate disposal of any solid or liquid wastes not discharged. Treatment units should be listed in order and you should select the proper code from Table 2c-1 to fill in column 3-b for each treatment unit. Insert "XX" into column 3-b if no code corresponds to a treatment unit you list. If you are applying for a permit for a privately owned treatment works, you must also identify all of your contributors in an attached listing.

**Item II-C**

A discharge is intermittent unless it occurs without interruption during the operating hours of the facility, except for infrequent shutdowns for maintenance, process changes, or other similar activities. A discharge is seasonal if it occurs only during certain parts of the year. Fill in every applicable column in this item for each source of intermittent or seasonal discharges. Base your answers on actual data whenever available; otherwise, provide your best estimate. Report the highest daily value for flow rate and total volume in the

"Maximum Daily" columns (*columns 4-a-2 and 4-b-2*). Report the average of all daily values measured during days when discharge occurred within the last year in the "Long Term Average" columns (*columns 4-a-1 and 4-b-1*).

**Item III-A**

All effluent guidelines promulgated by EPA appear in the Federal Register and are published annually in 40 CFR Subchapter N. A guideline applies to you if you have any operations contributing process wastewater in any subcategory covered by a BPT, BCT, or BAT guideline. If you are unsure whether you are covered by a promulgated effluent guideline, check with your EPA Regional office (*Table 1 in the Form 1 instructions*). You must check "yes" if an applicable effluent guideline has been promulgated, even if the guideline limitations are being contested in court. If you believe that a promulgated effluent guideline has been remanded for reconsideration by a court and does not apply to your operations, you may check "no."

**Item III-B**

An effluent guideline is expressed in terms of production (*or other measure of operation*) if the limitation is expressed as mass of pollutant per operational parameter; for example, "pounds of BOD per cubic foot of logs from which bark is removed," or "pounds of TSS per megawatt hour of electrical energy consumed by smelting furnace." An example of a guideline not expressed in terms of a measure of operation is one which limits the concentration of pollutants.

**Item III-C**

This item must be completed only if you checked "yes" to item III-B. The production information requested here is necessary to apply effluent guidelines to your facility and you cannot claim it as confidential. However, you do not have to indicate how the reported information was calculated. Report quantities in the units of measurement used in the applicable effluent guideline. The production figures provided must be based on actual daily production and not on design capacity or on predictions of future operations. To obtain alternate limits under 40 CFR 122.45(b)(2)(ii), you must define your maximum production capability and demonstrate to the Director that your actual production is substantially below maximum production capability and that there is a reasonable potential for an increase above actual production during the duration of the permit.

**Item IV-A**

If you check "yes" to this question, complete all parts of the chart, or attach a copy of any previous submission you have made to EPA containing same information.

**Item IV-B**

You are not required to submit a description of future pollution control projects if you do not wish to or if none is planned.

**Item V-A, B, C, and D**

The items require you to collect and report data on the pollutants discharged for each of your outfalls. Each part of this item addresses a different set of pollutants and must be completed in accordance with the specific instructions for that part. The following general instructions apply to the entire item.

**General Instructions**

Part A requires you to report at least one analysis for each pollutant listed. Parts B and C require you to report analytical data in two ways. For some pollutants, you may be required to mark "X" in the "Testing Required" column (*column 2-a, Part C*), and test (*sample and analyze*) and report the levels of the pollutants in your discharge whether or not you expect them to be present in your discharge. For all others, you must mark "X" in either the "Believe Present" column or the "Believe Absent" column (*columns 2-a or 2-b, Part B, and columns 2-b or 2-c, Part C*) based on your best estimate, and test for those which you believe to be present. (*See specific instructions on the form and below for Parts A through D.*) Base your determination that a pollutant is present in or absent from your discharge on your

Item V-A, B, C, and D (continued)

knowledge of your raw materials, maintenance chemicals, intermediate and final products and byproducts, and any previous analyses known to you of your effluent or similar effluent. (For example, if you manufacture pesticides, you should expect those pesticides to be present in contaminated stormwater runoff.) If you would expect a pollutant to be present solely as a result of its presence in your intake water, you must mark "Believe Present" but you are not required to analyze for that pollutant. Instead, mark an 'X' in the "Intake" column.

- A. Reporting.** All levels must be reported as concentration and as total mass. You may report some or all of the required data by attaching separate sheets of paper instead of filling out pages V-1 to V-9 if the separate sheets contain all the required information in a format which is consistent with pages V-1 to V-9 in spacing and in identification of pollutants and columns. (For example, the data system used in your GC/MS analysis may be able to print data in the proper format.) Use the following abbreviations in the columns headed "Units" (column 3, Part A, and column 4, Parts B and C).

Concentration	Mass
ppm.....parts per million	lbs.....pounds
mg/l ...milligrams per liter	ton.....tons (English tons)
ppb.....parts per billion	mg.....milligrams
ug/l ...micrograms per liter	g.....grams
	kg.....kilograms
	T.....tonnes (metric tons)

All reporting of values for metals must be in terms of "total recoverable metal," unless:

- (1) An applicable, promulgated effluent limitation or standard specifies the limitation for the metal in dissolved, valent, or total form; or
- (2) All approved analytical methods for the metal inherently measure only its dissolved form (e.g., hexavalent chromium); or
- (3) The permitting authority has determined that in establishing case-by-case limitations it is necessary to express the limitations on the metal in dissolved, valent, or total form to carry out the provisions of the CWA.

If you measure only one daily value, complete only the "Maximum Daily Values" columns and insert '1' into the "Number of Analyses" column (columns 2-a and 2-d, Part A, and column 3-a, 3-d, Parts B and C). The permitting authority may require you to conduct additional analyses to further characterize your discharges. For composite samples, the daily value is the total mass or average concentration found in a composite sample taken over the operating hours of the facility during a 24-hour period; for grab samples, the daily value is the arithmetic or flow-weighted total mass or average concentration found in a series of at least four grab samples taken over the operating hours of the facility during a 24-hour period.

If you measure more than one daily value for a pollutant and those values are representative of your wastestream, you must report them. You must describe your method of testing and data analysis. You also must determine the average of all values within the last year and report the concentration and mass under the "Long Term Average Values" columns (column 2-c, Part A, and column 3-c, Parts B and C), and the total number of daily values under the "Number of Analyses" columns (column 2-d, Part A, and columns 3-d, Parts B and C). Also, determine the average of all daily values taken during each calendar month, and report the highest average under the "Maximum 30-day Values" columns (column 2-c, Part A, and column 3-b, Parts B and C).

**B. Sampling:** The collection of the samples for the reported analyses should be supervised by a person experienced in performing sampling of industrial wastewater. You may contact your EPA or State permitting authority for detailed guidance on sampling techniques and for answers to specific questions. Any specific requirements contained in the applicable analytical methods should be followed for sample containers, sample preservation, holding

times, the collection of duplicate samples, etc. The time when you sample should be representative of your normal operation, to the extent feasible, with all processes which contribute wastewater in normal operation, and with your treatment system operating properly with no system upsets. Samples should be collected from the center of the flow channel, where turbulence is at a maximum, at a site specified in your present permit, or at any site adequate for the collection of a representative sample.

For pH, temperature, cyanide, total phenols, residual chlorine, oil and grease, and fecal coliform, grab samples must be used. For all other pollutants 24-hour composite samples must be used. However, a minimum of one grab sample may be taken for effluents from holding ponds or other impoundments with a retention period of greater than 24 hours. For stormwater discharges a minimum of one to four grab samples may be taken, depending on the duration of the discharge. One grab must be taken in the first hour (or less) of discharge, with one additional grab (up to a minimum of four) taken in each succeeding hour of discharge for discharges lasting four or more hours. The Director may waive composite sampling for any outfall for which you demonstrate that use of an automatic sampler is infeasible and that a minimum of four grab samples will be representative of your discharge.

Grab and composite samples are defined as follows:

**Grab sample:** An individual sample of at least 100 milliliters collected at a randomly-selected time over a period not exceeding 15 minutes.

**Composite sample:** A combination of at least 8 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24 hour period. The composite must be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot. Aliquots may be collected manually or automatically. For GC/MS Volatile Organic Analysis (VOA), aliquots must be combined in the laboratory immediately before analysis. Four (4) (rather than eight) aliquots or grab samples should be collected for VOA. These four samples should be collected during actual hours of discharge over a 24-hour period and need not be flow proportioned. Only one analysis is required.

The Agency is currently reviewing sampling requirements in light of recent research on testing methods. Upon completion of its review, the Agency plans to propose changes to the sampling requirements.

Data from samples taken in the past may be used, provided that:

All data requirements are met;

Sampling was done no more than three years before submission; and

All data are representative of the present discharge.

Among the factors which would cause the data to be unrepresentative are significant changes in production level, changes in raw materials, processes, or final products, and changes in wastewater treatment. When the Agency promulgates new analytical methods in 40 CFR Part 136, EPA will provide information as to when you should use the new methods to generate data on your discharges. Of course, the Director may request additional information, including current quantitative data, if she or he determines it to be necessary to assess your discharges.

**C. Analysis:** You must use test methods promulgated in 40 CFR Part 136; however, if none has been promulgated for a particular pollutant, you may use any suitable method for measuring the level of the pollutant in your discharge provided that you submit a description of the method or a reference to a published method. Your description should include the sample holding time, preservation techniques, and the quality control measures which you used. If you have two or more substantially identical outfalls, you may request permission from your permitting authority to sample and analyse only one outfall and submit the results of the analysis for other substantially identical outfalls. If your request is granted by the

## Item V-A, B, C, and D (continued)

permitting authority, on a separate sheet attached to the application form, identify which outfall you did test, and describe why the outfalls which you did not test are substantially identical to the outfall which you did test.

**D. Reporting of Intake Data:** You are not required to report data under the "Intake" columns unless you wish to demonstrate your eligibility for a "net" effluent limitation for one or more pollutants, that is, an effluent limitation adjusted by subtracting the average level of the pollutant(s) present in your intake water. NPDES regulations allow net limitations only in certain circumstances. To demonstrate your eligibility, under the "Intake" columns report the average of the results of analyses on your intake water (*if your water is treated before use, test the water after it is treated*), and discuss the requirements for a net limitation with your permitting authority.

**Part V-A**

Part V-A must be completed by all applicants for all outfalls, including outfalls containing only noncontact cooling water or storm runoff. However, at your request, the Director may waive the requirement to test for one or more of these pollutants, upon a determination that available information is adequate to support issuance of the permit with less stringent reporting requirements for these pollutants. You also may request a waiver for one or more of these pollutants for your category or subcategory from the Director, Office of Water Enforcement and Permits. See discussion in General Instructions to item V for definitions of the columns in Part A. The "Long Term Average Values" column (*column 2-c*) and "Maximum 30-day Values" column (*column 2-b*) are not compulsory but should be filled out if data are available.

Use composite samples for all pollutants in this Part, except use grab samples for pH and temperature. See discussion in General Instructions to Item V for definitions of the columns in Part A. The "Long Term Average Values" column (*column 2-c*) and "Maximum 30-Day Values" column (*column 2-b*) are not compulsory but should be filled out if data are available.

**Part V-B**

Part V-B must be completed by all applicants for all outfalls, including outfalls containing only noncontact cooling water or storm runoff. You must report quantitative data if the pollutant(s) in question is limited in an effluent limitations guideline either directly, or indirectly but expressly through limitation on an indicator (e.g., *use of TSS as an indicator to control the discharge of iron and aluminum*). For other discharged pollutants you must provide quantitative data or explain their presence in your discharge. EPA will consider requests to the Director of the Office of Water Enforcement and Permits to eliminate the requirement to test for pollutants for an industrial category or subcategory. Your request must be supported by data representative of the industrial category or subcategory in question. The data must demonstrate that individual testing for each applicant is unnecessary, because the facilities in the category or subcategory discharge substantially identical levels of the pollutant or discharge the pollutant uniformly at sufficiently low levels. Use composite samples for all pollutants you analyze for in this part, except use grab samples for residual chlorine, oil and grease, and fecal coliform. The "Long Term Average Values" column (*column 3-c*) and "Maximum 30-day Values" column (*column 3-b*) are not compulsory but should be filled out if data are available.

**Part V-C**

Table 2c-2 lists the 34 "primary" industry categories in the lefthand column. For each outfall, if any of your processes which contribute wastewater falls into one of those categories, you must mark "X" in "Testing Required" column (*column 2-a*) and test for (1) all of the toxic metals, cyanide, and total phenols, and (2) the organic toxic pollutants contained in Table 2c-2 as applicable to your category, unless you qualify as a small business (*see below*). The organic toxic pollutants are listed by GC/MS fractions on pages V-4 to V-9 in Part V-C. For example, the Organic Chemicals Industry has an asterisk in all four fractions; therefore, applicants in this category must test for all organic toxic pollutants in Part V-C. The inclusion of total phenols in Part V-C is not intended to classify total phenols as a toxic pollutant. If you are applying for a permit for a privately owned

treatment works, determine your testing requirements on the basis of the industry categories of your contributors. When you determine which industry category you are in to find your testing requirements, you are not determining your category for any other purpose and you are not giving up your right to challenge your inclusion in that category (*for example, for deciding whether an effluent guideline is applicable*) before your permit is issued. For all other cases (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), you must mark "X" in either the "Believed Present" column (*column 2-b*) or the "Believed Absent" column (*column 2-c*) for each pollutant. For every pollutant you know or have reason to believe is present in your discharge in concentrations of 10 ppb or greater, you must report quantitative data. For acrolein, acrylonitrile, 2, 4 dinitrophenol, and 2-methyl-4, 6 dinitrophenol, where you expect these four pollutants to be discharged in concentrations of 100 ppb or greater, you must report quantitative data. For every pollutant expected to be discharged in concentrations less than the thresholds specified above, you must either submit quantitative data or briefly describe the reasons the pollutant is expected to be discharged. At your request the Director, Office of Water Enforcement and Permits, may waive the requirement to test for pollutants for an industrial category or subcategory. Your request must be supported by data representatives of the industrial category or subcategory in question. The data must demonstrate that individual testing for each applicant is unnecessary, because the facilities in question discharge substantially identical levels of the pollutant, or discharge the pollutant uniformly at sufficiently low levels. If you qualify as a small business (*see below*) you are exempt from testing for the organic toxic pollutants, listed on pages V-4 to V-9 in Part C. For pollutants in intake water, see discussion in General Instructions to this item. The "Long Term Average Values" column (*column 3-c*) and "Maximum 30-day Values" column (*column 3-b*) are not compulsory but should be filled out if data are available. You are required to mark "Testing Required" for dioxin if you use or manufacture one of the following compounds:

- (a) 2,4,5-trichlorophenoxy acetic acid, (2,4,5-T);
- (b) 2-(2,4,5-trichlorophenoxy) propanoic acid, (Silvex, 2,4,5-TP)
- (c) 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate, (Erbon);
- (d) 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate, (Ronnell);
- (e) 2,4,5-trichlorophenol, (TCP); or
- (f) hexachlorophene, (HCP).

If you mark "Testing Required" or "Believed Present," you must perform a screening analysis for dioxins, using gas chromatography with an electron capture detector. A TCDD standard for quantitation is not required. Describe the results of this analysis in the space provided; for example, "no measurable baseline deflection at the retention time of TCDD" or "a measurable peak within the tolerances of the retention time of TCDD." The permitting authority may require you to perform a quantitative analysis if you report a positive result. The Effluent Guidelines Division of EPA has collected and analyzed samples from some plants for the pollutants listed in Part C in the course of its BAT guidelines development program. If your effluents are sampled and analyzed as part of this program in the last three years, you may use these data to answer Part C provided that the permitting authority approves, and provided that no process change or change in raw materials or operating practices has occurred since the samples were taken that would make the analyses unrepresentative of your current discharge.

**Small Business Exemption:** If you qualify as a "small business", you are exempt from the reporting requirements for the organic toxic pollutants, listed on pages V-4 to V-9 in Part C. There are two ways in which you can qualify as a "small business." If your facility is a coal mine, and if your probable total annual production is less than 100,000 tons per year, you may submit past production data or estimated future production (*such as a schedule of estimated total production under 30 CFR § 795.14(c)*) instead of conducting analyses for the organic toxic pollutants. If your facility is not a coal mine, and if your gross total annual sales for the most recent three years average less than \$100,000 per year (*in second quarter 1980*)

**Item V-A, B, C, and D (continued)**

dollars), you may submit sales data for those years instead of conducting analyses for the organic toxic pollutants. The production or sales data must be for the facility which is the source of the discharge. The data should not be limited to production or sales for the process or processes which contribute to the discharge, unless those are the only processes at your facility. For sales data, in situations involving intracorporate transfer of goods and services, the transfer price per unit should approximate market prices for those goods and services as closely as possible. Sales figures for years after 1980 should be indexed to the second quarter of 1980 by using the gross national product price deflator (*second quarter of 1980=100*). This index is available in *National Income and Product Accounts of the United States (Department of Commerce, Bureau of Economic Analysis)*.

**Part V-D**

List any pollutants in Table 2c-3 that you believe to be present and explain why you believe them to be present. No analysis is required, but if you have analytical data, you must report it.

**Note:** Under 40 CFR 117.12(a)(2), certain discharges of hazardous substances (*listed in Table 2c-4 of these instructions*) may be exempted from the requirements of section 311 of CWA, which establishes reporting requirements, civil penalties and liability for cleanup costs for spills of oil and hazardous substances. A discharge of a particular substance may be exempted if the origin, source, and amount of the discharged substances are identified in the NDPS permit application or in the permit, if the permit contains a requirement for treatment of the discharge, and if the treatment is in place. To apply for an exclusion of the discharge of any hazardous substance from the requirements of section 311, attach additional sheets of paper to your form, setting forth the following information:

1. The substance and the amount of each substance which may be discharged.
2. The origin and source of the discharge of the substance.
3. The treatment which is to be provided for the discharge by:
  - a. An onsite treatment system separate from any treatment system treating your normal discharge;
  - b. A treatment system designed to treat your normal discharge and which is additionally capable of treating the amount of the substance identified under paragraph 1 above; or
  - c. Any combination of the above.

See 40 CFR §117.12(a)(2) and (c) published on August 29, 1979, in 44 FR 50766, or contact your Regional Office (*Table 1 on Form 1, Instructions*), for further information on exclusions from section 311.

**Item VI**

This requirement applies to current use or manufacture of a toxic pollutant as an intermediate or final product or byproduct. The Director may waive or modify the requirement if you demonstrate that it would be unduly burdensome to identify each toxic pollutant and the Director has adequate information to issue your permit. You may not claim this information as confidential; however, you do not have to distinguish between use or production of the pollutants or list the amounts.

**Item VII**

Self explanatory. The permitting authority may ask you to provide additional details after your application is received.

**Item IX**

The Clean Water Act provides for severe penalties for submitting false information on this application form.

Section 309(c)(2) of the Clean Water Act provides that "Any person who knowingly makes any false statement, representation, or certification in any application,... shall upon conviction, be punished by a fine of not more than \$10,000 or by imprisonment for not more than six months, or by both."

40 CFR Part 122.22 requires the certification to be signed as follows:

(A) *For a corporation:* by a responsible corporate official. For purposes of this section, a responsible corporate official means (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25,000,000 (*in second-quarter 1980 dollars*), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

**Note:** EPA does not require specific assignments or delegation of authority to responsible corporate officers identified in §122.22(a)(1)(i). The Agency will presume that these responsible corporate officers have the requisite authority to sign permit applications unless the corporation has notified the director to the contrary. Corporate procedures governing authority to sign permit applications may provide for assignment or delegation to applicable corporate position under §122.22(a)(1)(ii) rather than to specific individuals.

(B) *For a partnership or sole proprietorship:* by a general partner or the proprietor, respectively; or

(C) *For a municipality, State, Federal, or other public agency:* by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal Agency includes (i) the chief executive officer of the Agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the Agency (e.g., *Regional Administrators of EPA*). Applications for Group II stormwater dischargers may be signed by a duly authorized representative (*as defined in 40 CFR 122.22(b)*) of the individuals identified above.

**CODES FOR TREATMENT UNITS**

PHYSICAL TREATMENT PROCESSES

1-A .....	Ammonia Stripping	1-M .....	Grit Removal
1-B .....	Dialysis	1-N .....	Microstraining
1-C .....	Diatomaceous Earth Filtration	1-O .....	Mixing
1-D .....	Distillation	1-P .....	Moving Bed Filters
1-E .....	Electrodialysis	1-Q .....	Multimedia Filtration
1-F .....	Evaporation	1-R .....	Rapid Sand Filtration
1-G .....	Flocculation	1-S .....	Reverse Osmosis ( <i>Hyperfiltration</i> )
1-H .....	Flotation	1-T .....	Screening
1-I .....	Foam Fractionation	1-U .....	Sedimentation ( <i>Settling</i> )
1-J .....	Freezing	1-V .....	Slow Sand Filtration
1-K .....	Gas-Phase Separation	1-W .....	Solvent Extraction
1-L .....	Grinding ( <i>Comminutors</i> )	1-X .....	Sorption

CHEMICAL TREATMENT PROCESSES

2-A .....	Carbon Adsorption	2-G .....	Disinfection ( <i>Ozone</i> )
2-B .....	Chemical Oxidation	2-H .....	Disinfection ( <i>Other</i> )
2-C .....	Chemical Precipitation	2-I .....	Electrochemical Treatment
2-D .....	Coagulation	2-J .....	Ion Exchange
2-E .....	Dechlorination	2-K .....	Neutralization
2-F .....	Disinfection ( <i>Chlorine</i> )	2-L .....	Reduction

BIOLOGICAL TREATMENT PROCESSES

3-A .....	Activated Sludge	3-E .....	Pre-Aeration
3-B .....	Aerated Lagoons	3-F .....	Spray Irrigation/Land Application
3-C .....	Anaerobic Treatment	3-G .....	Stabilization Ponds
3-D .....	Nitrification-Denitrification	3-H .....	Trickling Filtration

OTHER PROCESSES

4-A .....	Discharge to Surface Water	4-C .....	Reuse/Recycle of Treated Effluent
4-B .....	Ocean Discharge Through Outfall	4-D .....	Underground Injection

SLUDGE TREATMENT AND DISPOSAL PROCESSES

5-A .....	Aerobic Digestion	5-M .....	Heat Drying
5-B .....	Anaerobic Digestion	5-N .....	Heat Treatment
5-C .....	Belt Filtration	5-O .....	Incineration
5-D .....	Centrifugation	5-P .....	Land Application
5-E .....	Chemical Conditioning	5-Q .....	Landfill
5-F .....	Chlorine Treatment	5-R .....	Pressure Filtration
5-G .....	Composting	5-S .....	Pyrolysis
5-H .....	Drying Beds	5-T .....	Sludge Lagoons
5-I .....	Elutriation	5-U .....	Vacuum Filtration
5-J .....	Flotation Thickening	5-V .....	Vibration
5-K .....	Freezing	5-W .....	Wet Oxidation
5-L .....	Gravity Thickening		

TESTING REQUIREMENTS FOR ORGANIC TOXIC POLLUTANTS INDUSTRY CATEGORY\*

INDUSTRY CATEGORY	GC/MS FRACTION <sup>†</sup>			
	Volatile	Acid	Base/Neutral	Pesticide
Adhesives and sealants .....	X	X	X	-
Aluminum forming .....	X	X	X	-
Auto and other laundries .....	X	X	X	X
Battery manufacturing .....	X	-	X	-
Coal mining .....	X	X	X	X
Coil coating .....	X	X	X	-
Copper forming .....	X	X	X	-
Electric and electronic compounds .....	X	X	X	X
Electroplating .....	X	X	X	-
Explosives manufacturing .....	-	X	X	-
Foundries .....	X	X	X	-
Gum and wood chemicals .....	X	X	X	X
Inorganic chemicals manufacturing .....	X	X	X	-
Iron and steel manufacturing .....	X	X	X	-
Leather tanning and finishing .....	X	X	X	X
Mechanical products manufacturing .....	X	X	X	-
Nonferrous metals manufacturing .....	X	X	X	X
Ore mining .....	X	X	X	X
Organic chemicals manufacturing .....	X	X	X	X
Paint and ink formulation .....	X	X	X	X
Pesticides .....	X	X	X	X
Petroleum refining .....	X	X	X	X
Pharmaceutical preparations .....	X	X	X	-
Photographic equipment and supplies .....	X	X	X	X
Plastic and synthetic materials manufacturing .....	X	X	X	X
Plastic processing .....	X	-	-	-
Porcelain enameling .....	X	-	X	X
Printing and publishing .....	X	X	X	X
Pulp and paperboard mills .....	X	X	X	X
Rubber processing .....	X	X	X	-
Soap and detergent manufacturing .....	X	X	X	-
Steam electric power plants .....	X	X	X	-
Textile mills .....	X	X	X	X
Timber products processing .....	X	X	X	X

\*See note at conclusion of 40 CFR Part 122, Appendix D (1983) for explanation of effect of suspensions on testing requirements for primary industry categories.

<sup>†</sup>The pollutants in each fraction are listed in Item V-C.

X = Testing required.

- = Testing not required.

**TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES  
REQUIRED TO BE IDENTIFIED BY APPLICANTS IF EXPECTED TO BE PRESENT**

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TOXIC POLLUTANT	HAZARDOUS SUBSTANCES	HAZARDOUS SUBSTANCES
Asbestos	Dichlorvos	Naled
	Diethyl amine	Napthenic acid
HAZARDOUS SUBSTANCES	Dimethyl amine	Nitrotoluene
	Dintrobenzene	Parathion
Acetaldehyde	Diquat	Phenolsulfonate
Allyl alcohol	Disulfoton	Phosgene
Allyl chloride	Diuron	Propargite
Amyl acetate	Epichlorohydrin	Propylene oxide
Aniline	Ethion	Pyrethrins
Benzonitrile	Ethylene diamine	Quinoline
Benzyl chloride	Ethylene dibromide	Resorcinol
Butyl acetate	Formaldehyde	Strontium
Butylamine	Furfural	Strychnine
Captan	Guthion	Styrene
Carbaryl	Isoprene	2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)
Carbofuran	Isopropanolamine	TDE (Tetrachlorodiphenyl ethane)
Carbon disulfide	Kelthane	2,4,5-TP [2-(2,4,5-Trichlorophenoxy) propanoic acid]
Chlorpyrifos	Kepone	Trichlorofon
Coumaphos	Malathion	Triethanolamine
Cresol	Mercaptodimethur	Triethylamine
Crotonaldehyde	Methoxychlor	Trimethylamine
Cyclohexane	Methyl mercaptan	Uranium
2,4-D (2,4-Dichlorophenoxyacetic acid)	Methyl methacrylate	Vanadium
Diazinon	Methyl parathion	Vinyl acetate
Dicamba	Mevinphos	Xylene
Dichlobenil	Mexacarbate	Xylenol
Dichlone	Monoethyl amine	Zirconium
2,2-Dichloropropionic acid	Monomethyl amine	

## HAZARDOUS SUBSTANCES

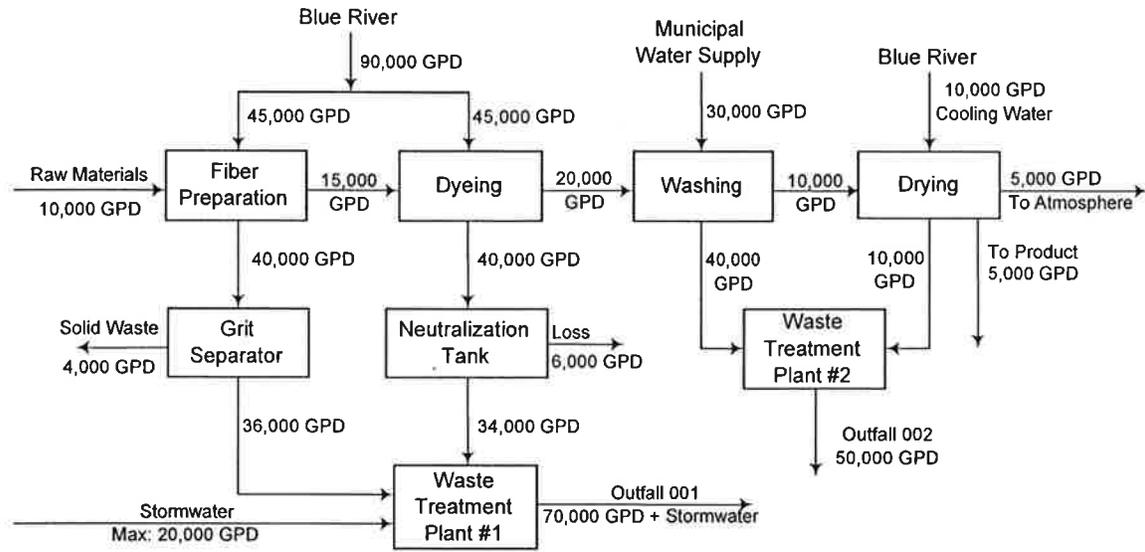
1. Acetaldehyde	74. Carbaryl	145. Formaldehyde
2. Acetic acid	75. Carbofuran	146. Formic acid
3. Acetic anhydride	76. Carbon disulfide	147. Fumaric acid
4. Acetone cyanohydrin	77. Carbon tetrachloride	148. Furfural
5. Acetyl bromide	78. Chlordane	149. Guthion
6. Acetyl chloride	79. Chlorine	150. Heptachlor
7. Acrolein	80. Chlorobenzene	151. Hexachlorocyclopentadiene
8. Acrylonitrile	81. Chloroform	152. Hydrochloric acid
9. Adipic acid	82. Chloropyrifos	153. Hydrofluoric acid
10. Aldrin	83. Chlorosulfonic acid	154. Hydrogen cyanide
11. Allyl alcohol	84. Chromic acetate	155. Hydrogen sulfide
12. Allyl chloride	85. Chromic acid	156. Isoprene
13. Aluminum sulfate	86. Chromic sulfate	157. Isopropanolamine
14. Ammonia	87. Chromous chloride	dodecylbenzenesulfonate
15. Ammonium acetate	88. Cobaltous bromide	158. Kelthane
16. Ammonium benzoate	89. Cobaltous formate	159. Kepone
17. Ammonium bicarbonate	90. Cobaltous sulfamate	160. Lead acetate
18. Ammonium bichromate	91. Coumaphos	161. Lead arsenate
19. Ammonium bifluoride	92. Cresol	162. Lead chloride
20. Ammonium bisulfite	93. Crotonaldehyde	163. Lead fluoborate
21. Ammonium carbamate	94. Cupric acetate	164. Lead flourite
22. Ammonium carbonate	95. Cupric acetoarsenite	165. Lead iodide
23. Ammonium chloride	96. Cupric chloride	166. Lead nitrate
24. Ammonium chromate	97. Cupric nitrate	167. Lead stearate
25. Ammonium citrate	98. Cupric oxalate	168. Lead sulfate
26. Ammonium fluoroborate	99. Cupric sulfate	169. Lead sulfide
27. Ammonium fluoride	100. Cupric sulfate ammoniated	170. Lead thiocyanate
28. Ammonium hydroxide	101. Cupric tartrate	171. Lindane
29. Ammonium oxalate	102. Cyanogen chloride	172. Lithium chromate
30. Ammonium silicofluoride	103. Cyclohexane	173. Malathion
31. Ammonium sulfamate	104. 2,4-D acid (2,4- Dichlorophenoxyacetic acid)	174. Maleic acid
32. Ammonium sulfide	105. 2,4-D esters (2,4- Dichlorophenoxyacetic acid esters)	175. Maleic anhydride
33. Ammonium sulfite	106. DDT	176. Mercaptodimethur
34. Ammonium tartrate	107. Diazinon	177. Mercuric cyanide
35. Ammonium thiocyanate	108. Dicamba	178. Mercuric nitrate
36. Ammonium thiosulfate	109. Dichlobenil	179. Mercuric sulfate
37. Amyl acetate	110. Dichlone	180. Mercuric thiocyanate
38. Aniline	111. Dichlorobenzene	181. Mercurous nitrate
39. Antimony pentachloride	112. Dichloropropane	182. Methoxychlor
40. Antimony potassium tartrate	113. Dichloropropene	183. Methyl mercaptan
41. Antimony tribromide	114. Dichloropropene-dichloropropane mix	184. Methyl methacrylate
42. Antimony trichloride	115. 2,2-Dichloropropionic acid	185. Methyl parathion
43. Antimony trifluoride	116. Dichlorvos	186. Mevinphos
44. Antimony trioxide	117. Dieldrin	187. Mexacarbate
45. Arsenic disulfide	118. Diethylamine	188. Monoethylamine
46. Arsenic pentoxide	119. Dimethylamine	189. Monomethylamine
47. Arsenic trichloride	120. Dinitrobenzene	190. Naled
48. Arsenic trioxide	121. Dinitrophenol	191. Naphthalene
49. Arsenic trisulfide	122. Dinitrotoluene	192. Naphthenic acid
50. Barium cyanide	123. Diquat	193. Nickel ammonium sulfate
51. Benzene	124. Disulfoton	194. Nickel chloride
52. Benzoic acid	125. Diuron	195. Nickel hydroxide
53. Benzonitrile	126. Dodecylbenzenesulfonic acid	196. Nickel nitrate
54. Benzoyl chloride	127. Endosulfan	197. Nickel sulfate
55. Benzyl chloride	128. Endrin	198. Nitric acid
56. Beryllium chloride	129. Epichlorohydrin	199. Nitrobenzene
57. Beryllium fluoride	130. Ethion	200. Nitrogen dioxide
58. Beryllium nitrate	131. Ethylbenzene	201. Nitrophenol
59. Butylacetate	132. Ethylenediamine	202. Nitrotoluene
60. n-Butylphthalate	133. Ethylene dibromide	203. Paraformaldehyde
61. Butylamine	134. Ethylene dichloride	204. Parathion
62. Butyric acid	135. Ethylene diaminetetracetic acid (EDTA)	205. Pentachlorophenol
63. Cadmium acetate	136. Ferric ammonium citrate	206. Phenol
64. Cadmium bromide	137. Ferric ammonium oxalate	207. Phosgene
65. Cadmium chloride	138. Ferric chloride	208. Phosphoric acid
66. Calcium arsenate	139. Ferric fluoride	209. Phosphorus
67. Calcium arsenite	140. Ferric nitrate	210. Phosphorus oxychloride
69. Calcium carbide	141. Ferric sulfate	211. Phosphorus pentasulfide
69. Calcium chromate	142. Ferrous ammonium sulfate	212. Phosphorus trichloride
70. Calcium cyanide	143. Ferrous chloride	213. Polychlorinated biphenyls (PCB)
71. Calcium dodecylbenzenesulfonate	144. Ferrous sulfate	214. Potassium arsenate
72. Calcium hypochlorite		215. Potassium arsenite
73. Captan		216. Potassium bichromate

HAZARDOUS SUBSTANCES

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217. Potassium chromate	247. Sodium selenite	270. Trimethylamine
218. Potassium cyanide	248. Strontium chromate	271. Uranyl acetate
219. Potassium hydroxide	249. Strychnine	272. Uranyl nitrate
220. Potassium permanganate	250. Styrene	273. Vanadium pentoxide
221. Propargite	251. Sulfuric acid	274. Vanadyl sulfate
222. Propionic acid	252. Sulfur monochloride	275. Vinyl acetate
223. Propionic anhydride	253. 2,4,5-T acid (2,4,5-Trichlorophenoxyacetic acid)	276. Vinylidene chloride
224. Propylene oxide	254. 2,4,5-T amines (2,4,5-Trichlorophenoxy acetic acid amines)	277. Xylene
225. Pyrethrins	255. 2,4,5-T esters (2,4,5 Trichlorophenoxy acetic acid esters)	278. Xylenol
226. Quinoline	256. 2,4,5-T salts (2,4,5-Trichlorophenoxy acetic acid salts)	279. Zinc acetate
227. Resorcinol	257. 2,4,5-TP acid (2,4,5-Trichlorophenoxy propanoic acid)	280. Zinc ammonium chloride
228. Selenium oxide	258. 2,4,5-TP acid esters (2,4,5-Trichlorophenoxy propanoic acid esters)	281. Zinc borate
229. Silver nitrate	259. TDE (Tetrachlorodiphenyl ethane)	282. Zinc bromide
230. Sodium	260. Tetraethyl lead	283. Zinc carbonate
231. Sodium arsenate	261. Tetraethyl pyrophosphate	284. Zinc chloride
232. Sodium arsenite	262. Thallium sulfate	285. Zinc cyanide
233. Sodium bichromate	263. Toluene	286. Zinc fluoride
234. Sodium bifluoride	264. Toxaphene	287. Zinc formate
235. Sodium bisulfite	265. Trichlorofon	288. Zinc hydrosulfite
236. Sodium chromate	266. Trichloroethylene	289. Zinc nitrate
237. Sodium cyanide	267. Trichlorophenol	290. Zinc phenolsulfonate
238. Sodium dodecylbenzenesulfonate	268. Triethanolamine dodecylbenzenesulfonate	291. Zinc phosphide
239. Sodium fluoride	269. Triethylamine	292. Zinc silicofluoride
240. Sodium hydrosulfide		293. Zinc sulfate
241. Sodium hydroxide		294. Zirconium nitrate
242. Sodium hypochlorite		295. Zirconium potassium flouride
243. Sodium methylate		296. Zirconium sulfate
244. Sodium nitrite		297. Zirconium tetrachloride
245. Sodium phosphate (dibasic)		
246. Sodium phosphate (tribasic)		

LINE DRAWING



Schematic of Water Flow  
Brown Mills, Inc.  
City, County, State

Figure 2C-1

Please print or type in the unshaded areas only.

**FORM 2C NPDES**  **U.S. ENVIRONMENTAL PROTECTION AGENCY**  
**APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER**  
**EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS**  
*Consolidated Permits Program*

**I. OUTFALL LOCATION**

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

A. OUTFALL NUMBER (list)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (name)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
001	38.00	43.00	13.34	-75.00	17.00	29.00	Beaverdam Creek
002	38.00	43.00	10.80	-75.00	17.00	28.40	Beaverdam Creek
003	38.00	43.00	8.44	-75.00	17.00	25.93	Beaverdam Creek
004	38.00	43.00	19.29	-75.00	17.00	19.75	Beaverdam Creek
NA							NA

**II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES**

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

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

1. OUTFALL NO. (list)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT	
	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1
001	Poultry Process Water		Primary Screening, Grit Removal	1-T 1-M
	Boiler Blowdown	0.0006 MGD*	Dissolved Air Flotation, (2) Anoxic Basins	1-H 3-C
	Sanitary Wastewater		(2) Aeration Chambers, Flocculation	3-B 1-G
	Storm Water (from Outfalls 002, 003)	0.0083 MGD*	(2) Clarifiers (settling, foam fractionization)	1-U 1-I
001 (cont)			Chlorination, Dechlorination	2-F 2-E
	*see Attachment A		Discharge to Surface Water	4-A
			Aerobic Digestion of Sludge, Off-Site Land Application of Treated Sludge	5-A 5-P
002	Storm Water (generated from screening area, trucks parking area, washing & cleaning area, loading & unloading area, and live holding shed area.	0.0031 MGD*	PUMPED FROM OUTFALL 002 SUMP TO ANOXIC BNR 1*	3-C 3-B
			(2) Anoxic Basins, (2) Aeration Chambers,	1-G 1-U
			Flocculation, (2) Clarifiers, Chlorination,	1-I 2-F
			Dechlorination, Discharge to Surface Water	2-E 4-A
002 (cont)	Wash Water	0.0015 MGD		
	*see Attachment A			
003	Storm Water (generated from the trucks parking area and the live holding shed area.	0.0052 MGD*	PUMPED FROM OUTFALL 003 SUMP TO ANOXIC BNR 1*	3-C 3-B
			(2) Anoxic Basins, (2) Aeration Chambers,	1-G 1-U
			Flocculation, (2) Clarifiers, Chlorination,	1-I 2-F
	*see Attachment A		Dechlorination, Discharge to Surface Water	2-E 4-A
004	Storm Water (generated from site access driveways and the employee parking area)	0.04 MGD*	Sedimentation in retention pond.	1-U
	*see Attachment A			

OFFICIAL USE ONLY (effluent guidelines sub-categories)

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?  
 YES (complete the following table)       NO (go to Section III)      \*See Attachment B

1. OUTFALL NUMBER (list)	2. OPERATION(S) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW				
		a. DAYS PER WEEK (specify average)	b. MONTHS PER YEAR (specify average)	a. FLOW RATE (in mgd)		B. TOTAL VOLUME (specify with units)		C. DURATION (in days)
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	
001	Sanitary Wastewater	5.25	12	0.042	0.084*	42000 gal	84000 gal	273
001	Boiler Blowdown	5.25	12	0.0006	0.0012*	600 gal	1200 gal*	273
002	Wash Water	5.25	12	0.0025	0.005*	2500 gal	5000 gal*	273
002	Storm Water and from the screening area, trucks parking area, washing and cleaning area, loading and unloading area, and live holding shed area.	2.15	12	0.0101	0.243*	10100 gal	243000 gal*	112
003	Storm Water from the trucks parking area and the live holding shed area.	2.15	12	0.017	0.405*	16900 gal	405000 gal*	112
004	Storm Water from the site access driveways and the employee parking area.	2.15	12	0.131	3.158*	131000 gal	131000 gal*	112

**III. PRODUCTION**

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?  
 YES (complete Item III-B)       NO (go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?  
 YES (complete Item III-C)       NO (go to Section IV)

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

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (list outfall numbers)
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)	
1,186,000	pounds slaughtered in live weight killed	Poultry processing	001

**IV. IMPROVEMENTS**

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

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

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

CONTINUED FROM PAGE 2

**V. INTAKE AND EFFLUENT CHARACTERISTICS**

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.  
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.  
D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
No pollutants listed in Table 2c-3 are believed to be present in the treated discharge.	NA	No pollutants listed in Table 2c-3 are believed to be present in the treated discharge.	NA

**VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS**

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?  
 YES (list all such pollutants below )       NO (go to Item VI-B)

Empty space for listing pollutants not covered by analysis.

**VII. BIOLOGICAL TOXICITY TESTING DATA**

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

YES (identify the test(s) and describe their purposes below)

NO (go to Section VIII)

A. Special Conditions.3 of the current NPDES Permit (NPDES Permit No. DE 0000299; State Permit No. WPCC 3131D/76) requires a one-time chronic biomonitoring test on effluent, the results of which are to be submitted with the permit renewal application. The biomonitoring testing was conducted during September - October 2010 and included EPA 7-day chronic test methods 1000.0 Pimphales promelas Larval Survival and Growth Test, and 1002.0 Ceriodaphnia Survival and Reproduction Test.

Analyses were conducted by the Ecotoxicology Laboratory of EA Engineering, Science, and Technology, Inc. located in Hunt Valley, MD. Results of the chronic toxicity testing are included as an attachment (Attachment C) to this form.

**VIII. CONTRACT ANALYSIS INFORMATION**

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

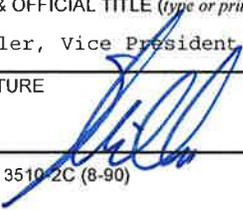
YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

NO (go to Section IX)

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
EnviroCorp Labs	51 Clark Street, Harrington, DE 19952	302.398.4313	Biological Oxygen Demand, Chemical Oxygen Demand, Total Organic Carbon, Total Suspended Solids, Oil & Grease, Total Phosphorous (as P), Ammonia (as N), Total Nitrogen (as N), Enterococcus

**IX. CERTIFICATION**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (type or print) Tom Miller, Vice President of Support Services	B. PHONE NO. (area code & no.) (302) 629-9163
C. SIGNATURE 	D. DATE SIGNED 10/29/10

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)  
DED051409290

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

OUTFALL NO.  
001

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

1. POLLUTANT	2. EFFLUENT				3. UNITS <i>(specify if blank)</i>				4. INTAKE <i>(optional)</i>			
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	5.22	62.60	NA	NA	3.13	34.04	44	mg/L	lbs	NA	NA	NA
b. Chemical Oxygen Demand (COD)	19.5	180.62	NA	NA	NA	NA	1	mg/L	lbs	NA	NA	NA
c. Total Organic Carbon (TOC)	6.9	63.9	NA	NA	NA	NA	1	mg/L	lbs	NA	NA	NA
d. Total Suspended Solids (TSS)	50.40	475.0	NA	NA	4.11	44.83	44	mg/L	lbs	NA	NA	NA
e. Ammonia (as N)	0.12	41.3	NA	NA	4.00	1.28	44	mg/L	lbs	NA	NA	NA
f. Flow	VALUE	1.78	VALUE	NA	VALUE	1.11	44	MGD	NA	VALUE	NA	NA
g. Temperature (winter)	VALUE	20.2	VALUE	NA	VALUE	16.5	150	°C		VALUE	NA	NA
h. Temperature (summer)	VALUE	28.7	VALUE	NA	VALUE	23.3	209	°C		VALUE	NA	NA
i. pH	MINIMUM	5.0	MAXIMUM	8.70	MINIMUM	NA	MAXIMUM	NA	STANDARD UNITS	44		

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

1. POLLUTANT AND CAS NO. <i>(if available)</i>	2. MARK "X"		3. EFFLUENT				4. UNITS				5. INTAKE <i>(optional)</i>			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)		X												
b. Chlorine, Total Residual	X		non-detect	NA	non-detect	NA	non-detect	NA	43	mg/L	NA	NA	NA	NA
c. Color		X												
d. Fecal Coliform (16984-48-8)	X													
e. Fluoride (16984-48-8)														
f. Nitrate-Nitrite (as N)	X		NA	NA	NA	NA	NA	2.69	44	CO <sub>1</sub> /100	NA	NA	NA	NA

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE	
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS
g. Nitrogen, Total Organic (as N)	X		48.55	573.90	NA	NA	44	mg/L	lbs	NA	NA
h. Oil and Grease	X		7.13	85.70	NA	NA	44	mg/L	lbs	NA	NA
i. Phosphorus (as P), Total (7723-14-0)	X		1.82	20.30	NA	NA	44	mg/L	lbs	NA	NA
j. Radioactivity											
(1) Alpha, Total		X									
(2) Beta, Total		X									
(3) Radium, Total		X									
(4) Radium 226, Total		X									
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)		X									
l. Sulfide (as S)		X									
m. Sulfite (as SO <sub>3</sub> ) (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									
x. Titanium, Total (7440-32-6)		X									

EPA I.D. NUMBER (copy from Item 1 of Form 1) **OUTFALL NUMBER**  
 DED051409290 001

CONTINUED FROM PAGE 3 OF FORM 2-C

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

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT			4. UNITS			5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
										(2) MASS CONCENTRATION	(2) MASS CONCENTRATION	
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>												
1M. Antimony, Total (7440-36-0)			X									
2M. Arsenic, Total (7440-38-2)			X									
3M. Beryllium, Total (7440-41-7)			X									
4M. Cadmium, Total (7440-43-8)			X									
5M. Chromium, Total (7440-47-3)			X									
6M. Copper, Total (7440-50-8)			X									
7M. Lead, Total (7439-92-1)			X									
8M. Mercury, Total (7439-97-6)			X									
9M. Nickel, Total (7440-02-0)			X									
10M. Selenium, Total (7782-49-2)			X									
11M. Silver, Total (7440-22-4)			X									
12M. Thallium, Total (7440-28-0)			X									
13M. Zinc, Total (7440-66-6)			X									
14M. Cyanide, Total (57-12-5)			X									
15M. Phenols, Total			X									
<b>DIOXIN</b>												
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X									

DESCRIBE RESULTS

CONTINUED FROM THE FRONT

1. POLLUTANT AND GAS 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		c. LONG TERM AVRG. VALUE		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION
<b>GC/MS FRACTION – VOLATILE COMPOUNDS</b>													
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. 1,3-Dichloropropylene (542-75-6)			X										
19V. Ethylbenzene (100-41-4)			X										
20V. Methyl Bromide (74-83-9)			X										
21V. Methyl Chloride (74-87-3)			X										

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE <i>(optional)</i>		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE	
				(1) CONCENTRATION	(2) MASS					(1) CONCENTRATION	(2) MASS
<b>GC/MS FRACTION – VOLATILE COMPOUNDS <i>(continued)</i></b>											
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								
<b>GC/MS FRACTION – ACID COMPOUNDS</b>											
1A. 2-Chlorophenol (95-57-8)			X								
2A. 2,4-Dichlorophenol (120-83-2)			X								
3A. 2,4-Dimethylphenol (105-67-9)			X								
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X								
5A. 2,4-Dinitrophenol (51-28-5)			X								
6A. 2-Nitrophenol (88-75-5)			X								
7A. 4-Nitrophenol (100-02-7)			X								
8A. P-Chloro-M-Cresol (59-50-7)			X								
9A. Pentachlorophenol (87-86-5)			X								
10A. Phenol (108-95-2)			X								
11A. 2,4,6-Trichlorophenol (88-05-2)			X								

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1)	b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS											
1B. Acenaphthene (83-32-9)			X								
2B. Acenaphthylene (208-96-8)			X								
3B. Anthracene (120-12-7)			X								
4B. Benzidine (92-87-5)			X								
5B. Benzo (a) Anthracene (56-55-3)			X								
6B. Benzo (a) Pyrene (50-32-8)			X								
7B. 3,4-Benzo-fluoranthene (205-99-2)			X								
8B. Benzo (ghi) Perylene (191-24-2)			X								
9B. Benzo (k) Fluoranthene (207-08-9)			X								
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)			X								
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)			X								
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)			X								
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)			X								
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X								
15B. Butyl Benzyl Phthalate (85-68-7)			X								
16B. 2-Chloro-naphthalene (91-58-7)			X								
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X								
18B. Chrysene (218-01-9)			X								
19B. Dibenzo (a,h) Anthracene (53-70-3)			X								
20B. 1,2-Dichloro-benzene (85-50-1)			X								
21B. 1,3-Di-chloro-benzene (541-73-1)			X								

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	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	
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. N-Nitrosodi-N-Propylamine (621-64-7)			X										

CONTINUED FROM THE FRONT

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

EPA I.D. NUMBER (copy from Item 1 of Form 1)  
 DED051409290

OUTFALL NUMBER  
 001

CONTINUED FROM PAGE V-8

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

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

EPA I.D. NUMBER (copy from Item 1 of Form 1)  
DED051409290

\* See Attachment D

	OUTFALL NO. 002
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**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						3. UNITS (specify if blank)				4. INTAKE (optional)			
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES		
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS			
a. Biochemical Oxygen Demand (BOD)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
b. Chemical Oxygen Demand (COD)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
c. Total Organic Carbon (TOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
d. Total Suspended Solids (TSS)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
e. Ammonia (as N)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
f. Flow	VALUE	NA	VALUE	NA	VALUE	NA	VALUE	NA	VALUE	NA	VALUE	NA		
g. Temperature (winter)	VALUE	NA	VALUE	NA	VALUE	NA	VALUE	NA °C	VALUE	NA	VALUE	NA		
h. Temperature (summer)	VALUE	NA	VALUE	NA	VALUE	NA	VALUE	NA °C	VALUE	NA	VALUE	NA		
i. pH	MINIMUM	NA	MINIMUM	NA	MAXIMUM	NA	NA	STANDARD UNITS	NA	NA	NA	NA		

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

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS				5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)		X												
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"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)	
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		d. NO. OF ANALYSES	a. CONCENTRATION	a. LONG TERM AVERAGE VALUE	
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS			(1) CONCENTRATION	(2) MASS
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 <sub>4</sub> ) (14808-79-8)		X								
l. Sulfide (as S)		X								
m. Sulfite (as SO <sub>3</sub> ) (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								
x. Titanium, Total (7440-32-6)		X								

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
DED051409290	002

CONTINUED FROM PAGE 3 OF FORM 2-C

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

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT			4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	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 (7440-50-8)			X								
7M. Lead, Total (7439-92-1)			X								
8M. Mercury, Total (7439-97-6)			X								
9M. Nickel, Total (7440-02-0)			X								
10M. Selenium, Total (7782-49-2)			X								
11M. Silver, Total (7440-22-4)			X								
12M. Thallium, Total (7440-28-0)			X								
13M. Zinc, Total (7440-66-6)			X								
14M. Cyanide, Total (57-12-5)			X								
15M. Phenols, Total			X								

DIOXIN		DESCRIBE RESULTS
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)	X	

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	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	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS
GCMS 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. 1,3-Dichloropropylene (542-75-6)			X									
19V. Ethylbenzene (100-41-4)			X									
20V. Methyl Bromide (74-83-8)			X									
21V. Methyl Chloride (74-87-3)			X									

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE <i>(optional)</i>		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE <sup>(1)</sup>	b. NO. OF ANALYSES
				a. MAXIMUM DAILY VALUE <sup>(1)</sup>	(2) MASS CONCENTRATION	(1) CONCENTRATION	(2) MASS CONCENTRATION				
<b>GC/MS FRACTION – VOLATILE COMPOUNDS <i>(continued)</i></b>											
22V. Methylene Chloride (75-09-2)			X								
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X								
24V. Tetrachloroethylene (127-18-4)			X								
25V. Toluene (108-88-3)			X								
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X								
27V. 1,1,1-Trichloroethane (71-55-6)			X								
28V. 1,1,2-Trichloroethane (79-00-5)			X								
29V. Trichloroethylene (79-01-6)			X								
30V. Trichlorofluoromethane (75-69-4)			X								
31V. Vinyl Chloride (75-01-4)			X								

**GC/MS FRACTION – ACID COMPOUNDS**

1A. 2-Chlorophenol (95-57-8)			X								
2A. 2,4-Dichlorophenol (120-83-2)			X								
3A. 2,4-Dimethylphenol (105-67-9)			X								
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X								
5A. 2,4-Dinitrophenol (51-28-5)			X								
6A. 2-Nitrophenol (88-75-5)			X								
7A. 4-Nitrophenol (100-02-7)			X								
8A. P-Chloro-M-Cresol (59-50-7)			X								
9A. Pentachlorophenol (87-86-5)			X								
10A. Phenol (108-95-2)			X								
11A. 2,4,6-Trichlorophenol (88-05-2)			X								

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (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		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						
<b>GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS</b>													
1B. Acenaphthene (83-32-9)			X										
2B. Acenaphthylene (208-96-8)			X										
3B. Anthracene (120-12-7)			X										
4B. Benzidine (92-87-5)			X										
5B. Benzo (a) Anthracene (56-55-3)			X										
6B. Benzo (a) Pyrene (50-32-8)			X										
7B. 3,4-Benzo-fluoranthene (205-99-2)			X										
8B. Benzo (ghi) Perylene (191-24-2)			X										
9B. Benzo (k) Fluoranthene (207-08-9)			X										
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)			X										
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)			X										
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)			X										
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)			X										
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X										
15B. Butyl Benzyl Phthalate (65-68-7)			X										
16B. 2-Chloro-naphthalene (91-58-7)			X										
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X										
18B. Chrysene (218-01-9)			X										
19B. Dibenzo (a,h) Anthracene (53-70-3)			X										
20B. 1,2-Dichloro-benzene (95-50-1)			X										
21B. 1,3-Di-chloro-benzene (541-73-1)			X										

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)		b. MAXIMUM 30 DAY VALUE (if available) (1)		c. LONG TERM AVRG. VALUE (if available) (1)	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				
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. N-Nitrosodi-N-Propylamine (621-64-7)			X								

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1)	b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					
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 (68-89-9)			X									
5P. δ-BHC (319-86-8)			X									
6P. Chlordane (57-74-9)			X									
7P. 4,4'-DDT (50-29-3)			X									
8P. 4,4'-DDE (72-55-9)			X									
9P. 4,4'-DDD (72-54-8)			X									
10P. Dieldrin (60-57-1)			X									
11P. α-Endosulfan (115-29-7)			X									
12P. β-Endosulfan (115-29-7)			X									
13P. Endosulfan Sulfate (1031-07-8)			X									
14P. Endrin (72-20-8)			X									
15P. Endrin Aldehyde (7421-93-4)			X									
16P. Heptachlor (76-44-8)			X									

EPA I.D. NUMBER (copy from Item 1 of Form 1) **DEED051409290**      **OUTFALL NUMBER**  
**002**

CONTINUED FROM PAGE V-8

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

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

EPA I.D. NUMBER (copy from Item 1 of Form 1)  
DED051409290

\* See Attachment E

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)		OUTFALL NO. 003	
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PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT				3. UNITS (specify if blank)				4. INTAKE (optional)			
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
b. Chemical Oxygen Demand (COD)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
c. Total Organic Carbon (TOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
d. Total Suspended Solids (TSS)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
e. Ammonia (as N)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
f. Flow	VALUE	NA	VALUE	NA	VALUE	NA	NA	NA	NA	VALUE	NA	NA
g. Temperature (winter)	VALUE	NA	VALUE	NA	VALUE	NA	NA	NA °C	NA	VALUE	NA	NA
h. Temperature (summer)	VALUE	NA	VALUE	NA	VALUE	NA	NA	NA °C	NA	VALUE	NA	NA
i. pH	MINIMUM	NA	MINIMUM	NA	MAXIMUM	NA	NA	STANDARD UNITS	NA			

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

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS				5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)	X													
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"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		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	
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 <sub>4</sub> ) (14806-79-8)		X										
l. Sulfide (as S)		X										
m. Sulfite (as SO <sub>3</sub> ) (14285-45-3)		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										
x. Titanium, Total (7440-32-6)		X										

EPA I.D. NUMBER (copy from Item 1 of Form 1) **DEP051409290**

OUTFALL NUMBER **003**

CONTINUED FROM PAGE 3 OF FORM 2-C

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

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT			4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	b. MASS	b. NO. OF ANALYSES
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>												
1M. Antimony, Total (7440-36-0)			X									
2M. Arsenic, Total (7440-38-2)			X									
3M. Beryllium, Total (7440-41-7)			X									
4M. Cadmium, Total (7440-43-9)			X									
5M. Chromium, Total (7440-47-3)			X									
6M. Copper, Total (7440-50-8)			X									
7M. Lead, Total (7439-92-1)			X									
8M. Mercury, Total (7439-97-6)			X									
9M. Nickel, Total (7440-02-0)			X									
10M. Selenium, Total (7782-49-2)			X									
11M. Silver, Total (7440-22-4)			X									
12M. Thallium, Total (7440-28-0)			X									
13M. Zinc, Total (7440-66-6)			X									
14M. Cyanide, Total (57-12-5)			X									
15M. Phenols, Total			X									
<b>DIOXIN</b>												
2,3,7,8-Tetra-chlorodibenzo-P-dioxin (1784-01-6)			X									

DESCRIBE RESULTS

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS			(1) CONCENTRATION	(2) MASS
<b>GC/MS FRACTION – VOLATILE COMPOUNDS</b>											
1V. Acrolein (107-02-8)			X								
2V. Acrylonitrile (107-13-1)			X								
3V. Benzene (71-43-2)			X								
4V. Bis (Chloro-methyl) 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. Chloro-dibromomethane (124-48-1)			X								
9V. Chloroethane (75-00-3)			X								
10V. 2-Chloro-ethylvinyl Ether (110-75-8)			X								
11V. Chloroform (67-66-3)			X								
12V. Dichloro-bromomethane (75-27-4)			X								
13V. Dichloro-difluoromethane (75-71-8)			X								
14V. 1,1-Dichloro-ethane (75-34-3)			X								
15V. 1,2-Dichloro-ethane (107-06-2)			X								
16V. 1,1-Dichloro-ethylene (75-35-4)			X								
17V. 1,2-Dichloro-propane (78-87-5)			X								
18V. 1,3-Dichloro-propylene (542-75-6)			X								
19V. Ethylbenzene (100-41-4)			X								
20V. Methyl Bromide (74-83-9)			X								
21V. Methyl Chloride (74-87-3)			X								

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE <i>(optional)</i>					
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		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					
<b>GC/MS FRACTION – VOLATILE COMPOUNDS <i>(continued)</i></b>														
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											
<b>GC/MS FRACTION – ACID COMPOUNDS</b>														
1A. 2-Chlorophenol (95-57-8)			X											
2A. 2,4-Dichlorophenol (120-83-2)			X											
3A. 2,4-Dimethylphenol (105-67-9)			X											
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X											
5A. 2,4-Dinitrophenol (51-28-5)			X											
6A. 2-Nitrophenol (88-75-5)			X											
7A. 4-Nitrophenol (100-02-7)			X											
8A. P-Chloro-M-Cresol (59-50-7)			X											
9A. Pentachlorophenol (87-86-5)			X											
10A. Phenol (108-95-2)			X											
11A. 2,4,6-Trichlorophenol (88-05-2)			X											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)	
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	b. MAXIMUM 30 DAY VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE	
				(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS										
1B. Acenaphthene (83-32-9)			X							
2B. Acenaphthylene (208-96-8)			X							
3B. Anthracene (120-12-7)			X							
4B. Benzidine (92-87-5)			X							
5B. Benzo (a) Anthracene (56-55-3)			X							
6B. Benzo (a) Pyrene (50-32-8)			X							
7B. 3,4-Benzo-fluoranthene (205-99-2)			X							
8B. Benzo (ghi) Perylene (191-24-2)			X							
9B. Benzo (k) Fluoranthene (207-08-9)			X							
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)			X							
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)			X							
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)			X							
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)			X							
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X							
15B. Butyl Benzyl Phthalate (85-68-7)			X							
16B. 2-Chloronaphthalene (91-58-7)			X							
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)			X							
18B. Chrysene (218-01-9)			X							
19B. Dibenzo (a,h) Anthracene (53-70-3)			X							
20B. 1,2-Dichlorobenzene (95-50-1)			X							
21B. 1,3-Dichlorobenzene (541-73-1)			X							

CONTINUED FROM PAGE V-6

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

CONTINUED FROM THE FRONT

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

EPA I.D. NUMBER (copy from Item 1 of Form 1)  
 DED051409290

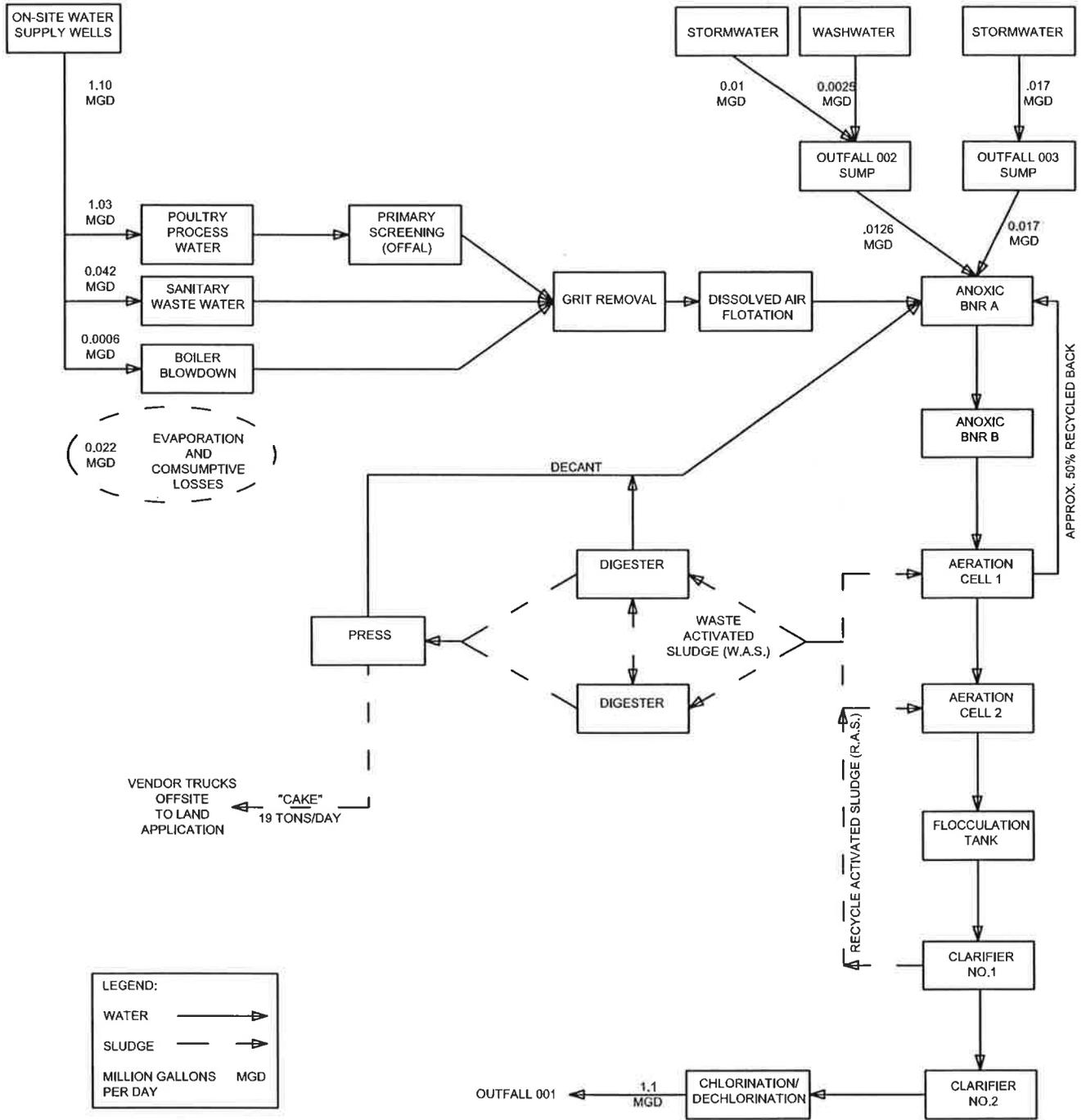
OUTFALL NUMBER  
 003

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'		3. EFFLUENT		4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	d. NO. OF ANALYSES	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	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						

EPA Form 3510-2C (8-90)

PAGE V-9



**BP Environmental, Inc.**

1103 S. Talbot Street Suite D  
St. Michaels, MD 21663

**Schematic of Flow Through the  
Harbeson Wastewater Treatment Plant**

**Prepared For:**

Allen's Family Foods Inc.  
126 N. Shipley Street  
Seaford, DE 19973

**Site:**

Harbeson Poultry Processing Plant  
18752 Harbeson Road (Route 5)  
Harbeson, DE 19951

Date: 10-06-10  
Revision Date:  
Project: AL-130-18  
Drafted by: MK

## **Attachment A – Further Explanation of EPA Form 2C, Item II-B Items**

### **Outfall 001**

An estimated, 1.03 million gallons of poultry process water are input in the wastewater treatment system per operational day. The sanitary wastewater average daily flow is estimated based on the number of employees present at the facility each day and a design flow of 35 gallons/employee/shift, as referenced in 15A North Carolina Administrative Code 02T .0114. The boiler blowdown average daily flow is estimated by plant maintenance personnel based on experience. Storm water and wash water generated in Drainage Area 002, storm water generated in Drainage Area 003 is conveyed to concrete sumps located prior to Outfalls 002 and 003, respectively. Storm water collected in each of the concrete sumps is transferred to Anoxic BNR A via high flow-rate Gorman-Rupp pumps where it subsequently receives treatment.

### **Wastewater Treatment System**

The wastewater treatment system consists of Primary Screening (via Offal), Grit Removal, an approximate 45,000 gallon Dissolved Air Flotation (DAF) device, two (2) 1.5 million gallon Anoxic Biological Nutrient Removal (BNR) Basins (Anoxic BNR A and Anoxic BNR B), a 1.6 million gallon Aeration Cell (CMAS 1), a 0.5-million gallon Aeration Cell (CMAS 2), a 5,600 gallon Flocculation Tank, a 0.424 million gallon Clarifier (Clarifier 1), a 53,000 gallon Clarifier (Clarifier 2), and a 28,250 gallon Chlorination/Dechlorination Contact Tank. The treatment train also includes two (2) 134,000 gallon Aerobic Digesters for sludge treatment. Based on the permitted flow of 1.25 million gallons per day, the retention time of water in the wastewater treatment system is 4.5 days.

### **Disposal of Sludge Collected During Wastewater Treatment**

Recycle Activated Sludge (RAS) is transferred from the Primary Clarifier back to CMAS 1 and CMAS 2. RAS is transferred manually to one of the two (2) Aerobic Digesters via a wasting valve where it is subsequently classed as Waste Activated Sludge (WAS). Following aerobic digestion, the WAS is conveyed to a press where it is compressed and prepared for off-site transfer. Liquid is decanted from the WAS in the digesters and the press and is returned to Anoxic BNR A. Clean Delaware, Inc. is currently contracted to remove the WAS from the site. On operational days, an average of approximately nineteen (19) tons of WAS is removed from the site.

### **Outfall 002**

Drainage Area 002 is approximately 42,282 square-feet in size. Average daily storm water generated in this drainage area is calculated by multiplying the collection area by the average annual rainfall depth, obtained from the National Oceanic and Atmospheric Administration's (NOAA) National Climatic Data Center (NCDC) data inventory for the Wilmington, DE station, and dividing by the number of days in a calendar year. Storm water generated in this drainage area is conveyed to a concrete sump prior to reaching the outfall, which would convey storm water to Beaverdam Creek. Wash water, generated via vehicle/equipment washing, and hosing down of areas at the site, is also conveyed to the sump associated with Outfall 002. The average daily flow of wash water was estimated by plant personnel

based on experience. Water collected in the sump is transferred to Anoxic BNR A via a high flow rate Gorman-Rupp pump operated on a float system, where it is subsequently treated and discharged via Outfall 001. Water, including storm water and wash water, is only discharged from Outfall 002 during atypical precipitation events during which the capacity of the wastewater treatment system is being approached. Note that no recordable discharge has occurred from Outfall 002 during the past three (3) years.

### **Outfall 003**

Drainage Area 003 is approximately 70,528 square-feet in size. Average daily storm water generated in this drainage area is calculated by multiplying the collection area by the average annual rainfall depth, obtained from the NOAA's NCDC data inventory for the Wilmington, DE station, and dividing by the number of days in a calendar year. Storm water generated in this drainage area is conveyed to a concrete sump prior to reaching the outfall, which would convey storm water to Beaverdam Creek. Water collected in the sump is transferred to Anoxic BNR A via a high flow rate Gorman-Rupp pump operated on a float system, where it is subsequently treated and discharged via Outfall 001. Water is only discharged from Outfall 003 during atypical precipitation events during which the capacity of the wastewater treatment system is being approached. Note that no recordable discharge has occurred from Outfall 002 during the past three (3) years.

### **Outfall 004**

Drainage Area 003 is approximately 550,000 square-feet in size. Average daily storm water generated in this drainage area is calculated by multiplying the collection area by the average annual rainfall depth, obtained from the NOAA's NCDC data inventory for the Wilmington, DE station, and dividing by the number of days in a calendar year. Storm water is conveyed to an approximate one (1) acre storm water retention pond, located in the northern portion of the site, prior to being discharged to Beaverdam Creek.

**Attachment B – Further Explanation of EPA Form 2C, Item II-C**

Maximum daily values (columns 4-a-2 and 4-b-2) for sanitary wastewater, boiler blowdown, and wash water are estimated by doubling the average daily flow estimates.

Maximum daily values (columns 4-1-2 and 4-b-2) for all storm water discharges are calculated using the collection area of the Drainage Area and the precipitation depth of a 100 year, 24 hour design precipitation event, as given by the National Oceanic and Atmospheric (NOAA), National Weather Service's (NWS) Hydrometeorological Design Studies Center for location: Delaware 38.594 N, 75.45 W, 49 feet.

**Attachment C – Laboratory Data for Item VII of EPA Form 2C**

RESULTS OF CHRONIC TOXICITY TESTING  
ON SEPTEMBER AND OCTOBER 2010 EFFLUENT SAMPLES FROM  
ALLEN FAMILY FOODS, INC.

*Prepared for:*

Allen Family Foods, Inc.  
18752 Harbeson Road  
Harbeson, Delaware 19951

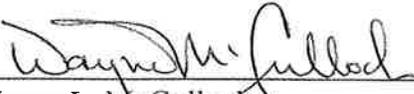
*Prepared by:*

EA Engineering, Science, and Technology, Inc.  
15 Loveton Circle  
Sparks, Maryland 21152  
For questions, please contact Wayne McCulloch  
ph: 410-771-4950

*Results relate only to the items tested or to the samples as received by the laboratory.*

*This report shall not be reproduced, except in full, without written approval of  
EA Engineering, Science, and Technology, Inc.*

*This report contains 8 pages plus 2 attachments.*

  
Wayne L. McCulloch  
Laboratory Director

21 October 2010  
Date

## INTRODUCTION

At the request of Allen Family Foods, Inc., EA Engineering, Science, and Technology performed chronic toxicity testing on 24-hour composite samples of final effluent from Allen Family Foods' Harbeson, Delaware facility (NPDES permit number DE0000299). The effluent composite samples were collected on 12-13, 14-15 and 16-17 September 2010. The test species, *Pimephales promelas* (fathead minnow) and *Ceriodaphnia dubia* (water flea) were exposed to 100 percent effluent and a laboratory water control. The objective of the toxicity testing was to determine the effects on survival and reproduction (*C. dubia*) or biomass (*P. promelas*) of the organisms exposed to the 100 percent effluent concentration as compared to the control. The *C. dubia* 3-brood chronic toxicity test was deemed to be an invalid test because the control treatment did not meet the minimum acceptability criterion of 15 young per female for the reproduction test endpoint. A second suite of effluent composite samples were collected on 3-4, 5-6 and 7-8 October 2010 in order to re-run the *C. dubia* chronic toxicity test.

The toxicity testing was conducted following EA's standard operating procedures (EA 2006) which are in accordance with US EPA guidance (US EPA 2002). The results of the chronic toxicity tests were analyzed using the ToxCalc statistical software package (Version 5.0, Tidepool Scientific Software) and followed US EPA guidance (US EPA 2002). Summaries of sample and test data are presented on pages 5 and 6 for *P. promelas*, and pages 7 and 8 for *C. dubia*. Copies of raw data sheets and statistics are included in Attachment I, and the Report Quality Assurance Record is included as Attachment II.

## RESULTS

The results of the toxicity testing indicated that the September and October 2010 composite final effluent samples from Allen Family Foods were not chronically toxic to *Pimephales promelas* or *Ceriodaphnia dubia*, respectively. These toxicity test results comply with current NELAC standards.

The results of the *P. promelas* chronic toxicity test initiated on 14 September 2010 are presented on page 6. At the end of the seven-day exposure period there was 95 percent control survival, and 93 percent survival in the 100 percent effluent concentration. Mean biomass in the 100 percent effluent concentration was 0.784 mg/organism, which was not significantly different ( $p=0.05$ ) from the control mean biomass of 0.793 mg/organism. The NOEC for this test was 100 percent effluent. The corresponding *C. dubia* chronic toxicity test was invalid because the control treatment did not meet the test method's minimum acceptability criterion of 15 young per female; therefore the test was scheduled to be re-run the week of 3 October 2010.

The results of the *C. dubia* chronic toxicity test initiated on 5 October 2010 are presented on page 8. At test termination on Day 6, there was 100 percent survival in the 100 percent effluent treatment, and 100 percent survival in the control. The 100 percent effluent treatment had mean young production of 14.5 young per female, while the control mean young production was 16.0 young per female. The 100 percent effluent treatment was not significantly ( $p=0.05$ ) different from the control for reproduction. The resulting NOEC for this test was 100 percent effluent.

In accordance with EA's quality control/quality assurance program, monthly chronic reference toxicant tests were conducted on the in-house cultured stocks of *P. promelas* and *C. dubia*. The results of the reference toxicant tests fell within EA's acceptable control chart limits, and the results are summarized on pages 5 (*P. promelas*) and 7 (*C. dubia*).

## REFERENCES

- EA. 2006. EA Ecotoxicology Laboratory Quality Assurance and Standard Operating Procedures Manual. EA Manual ATS-102. Internal document prepared by EA's Ecotoxicology Laboratory, EA Engineering, Science, and Technology, Inc., Sparks, Maryland.
- US EPA. 2002. Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms. Fourth Edition. EPA-821-R-02-013. U.S. Environmental Protection Agency, Office of Water, Washington, D.C.

SUMMARY OF SAMPLE/TEST INFORMATION

Test: *Pimephales promelas* daily renewal chronic toxicity test

Test Procedure: EA Protocol ATS-STC-FH-10

Larval survival and growth test with fathead minnows (*Pimephales promelas*)

Client Name: Allen Family Foods, Inc.

Sample Description: Outfall 001

<u>EA Accession Number</u>	<u>Collection Time and Date</u>	<u>Receipt Time and Date</u>	<u>Sample Usage</u>
AT0-596	0800, 12 September 2010 to 0800, 13 September 2010	0830, 14 September 2010	Test initiation & Day 1 renewal
AT0-608	0800, 14 September 2010 to 0800, 15 September 2010	1020, 16 September 2010	Day 2 & 3 renewals
AT0-623	0800, 16 September 2010 to 0800, 17 September 2010	0920, 18 September 2010	Day 4, 5, & 6 renewals

EA Test Number: TN-10-1017

Test Initiation Time and Date: 1010, 14 September 2010

Test Completion Time and Date: 1105, 21 September 2010

Dilution Water Description: Moderately hard synthetic freshwater

Test Vessel: 1-L beaker

Test Volume: 250 ml

Number of Organisms per Replicate: 10

Number of Replicates per Concentration: 4

Organism Lot Information

Lot Number: FH0-9/13-14

Source: EA's Culture Facility (Sparks, Maryland)

Age: <24 hours old

Reference Toxicant Test Information

Reference Toxicant: Potassium chloride (KCl)

EA Test Number: RT-10-116 (initiated 1 September 2010)

7-Day IC25: 614 mg/L KCl

Laboratory control chart acceptability range for IC25: 462-758 mg/L KCl

SUMMARY OF SAMPLE/TEST INFORMATION (continued)

Test Species: *Pimephales promelas* (fathead minnow)  
 Sample Description: Allen Family Foods – Outfall 001  
 Sample Dates: 12-13, 14-15, 16-17 September 2010  
 EA Test Number: TN-10-1017

<u>Test Concentration (percent effluent)</u>	<u>7-Day Percent Survival</u>	<u>Mean Biomass as mg/Organism (±S.D.)</u>
Control	95	0.793 (±0.040)
100	93	0.784 (±0.098)

Chronic Toxicity Test Endpoints (as percent effluent)

NOEC:	100
LOEC:	>100
IC25	>100

<u>Water Quality Parameters on Test Solutions</u>	<u>Range</u>
Temperature (°C):	24.0 – 24.6
pH:	7.4 – 8.3
Dissolved Oxygen (mg/L):	4.7 – 8.4
Conductivity (µS/cm):	302 – 1,286

<u>Water Quality Parameters on Samples (at Receipt)</u>	<u>AT0-596</u>	<u>AT0-608</u>	<u>AT0-623</u>
Temperature (°C):	2.7	0.7	0.2
pH:	7.2	8.0	8.0
Total Residual Chlorine (mg/L):	<0.01	<0.01	<0.01
Alkalinity (mg/L as CaCO <sub>3</sub> ):	150	210	214
Hardness (mg/L as CaCO <sub>3</sub> ):	284	340	340
Conductivity (µS/cm):	1,176	1,252	1,258

SUMMARY OF SAMPLE/TEST INFORMATION

Test: *Ceriodaphnia dubia* daily renewal chronic toxicity test

Test Procedure: EA Protocol ATS-STC-CD-11

Survival and reproduction test with cladoceran (*Ceriodaphnia dubia*)

Client Name: Allen Family Foods, Inc.

Sample Description: Outfall 001

<u>EA Accession Number</u>	<u>Collection Time and Date</u>	<u>Receipt Time and Date</u>	<u>Sample Usage</u>
AT0-684	0800, 3 October 2010 to 0800, 4 October 2010	0810, 5 October 2010	Test initiation & Day 1 renewal
AT0-695	0800, 5 October 2010 to 0800, 6 October 2010	0815, 7 October 2010	Day 2 & 3 renewals
AT0-706	0800, 7 October 2010 to 0800, 8 October 2010	0830, 9 October 2010	Day 4 & 5 renewals

EA Test Number: TN-10-1172

Test Initiation Time and Date: 0910, 5 October 2010

Test Completion Time and Date: 1430, 11 October 2010

Dilution Water Description: Moderately hard synthetic freshwater

Test Vessel: 30-ml cup

Test Volume: 15 ml

Number of Organisms per Replicate: 1

Number of Replicates per Concentration: 10

Organism Lot Information

Lot Number: Not applicable

Source: EA's Culture Facility (Sparks, Maryland)

Age: <24 hours old, released within an 8-hour period

Reference Toxicant Test Information

Reference Toxicant: Sodium chloride (NaCl)

EA Test Number: RT-10-121 (initiated 8 September 2010)

6-Day IC25: 531 mg/L NaCl

Laboratory control chart acceptability range for IC25: 156-1,376 mg/L NaCl

SUMMARY OF SAMPLE/TEST INFORMATION (continued)

Test Species: *Ceriodaphnia dubia* (water flea)  
 Sample Description: Allen Family Foods – Outfall 001  
 Sample Dates: 3-4, 5-6, 7-8 October 2010  
 EA Test Number: TN-10-1172

<u>Test Concentration (percent effluent)</u>	<u>6-Day Percent Survival</u>	<u>Mean Young Production as Neonates/Organism (±S.D.)</u>
Control	100	16.0 (±3.7)
100	100	14.5 (±5.2)

Chronic Toxicity Test Endpoints (as percent effluent)

NOEC:	100
LOEC:	>100
IC25:	>100

Water Quality Parameters on Test Solutions

	<u>Range</u>
Temperature (°C):	24.0 – 25.2
pH:	7.5 – 8.4
Dissolved Oxygen (mg/L):	7.0 – 8.6
Conductivity (µS/cm):	311 – 1,134

Water Quality Parameters on Samples (at Receipt)

	<u>AT0-684</u>	<u>AT0-695</u>	<u>AT0-706</u>
Temperature (°C):	0.1	0.0	1.4
pH:	7.3	7.6	7.8
Total Residual Chlorine (mg/L):	<0.01	<0.01	<0.01
Alkalinity (mg/L as CaCO <sub>3</sub> ):	90	106	104
Hardness (mg/L as CaCO <sub>3</sub> ):	228	232	232
Conductivity (µS/cm):	1,107	1,044	1,099

## **ATTACHMENT I**

Data Sheets and Statistical Analyses  
(30 pages)



EA Ecotoxicology Laboratory  
 15 Loveton Circle  
 Sparks (Baltimore), Maryland 21152  
 Telephone: (410) 771-4950  
 Fax: (410) 771-4204

Wayne McCulloch



FOR OFFICE USE ONLY

Species to be tested:

- D. manga
- D. pulex
- C. dubia
- P. promelas
- Other
- Menidia sp.
- P. pugio
- C. variegatus
- M. bahia
- Other

A = Acute      C = Chornic      B = Bioaccumulation

Client: Allen Family Foods Project No.: \_\_\_\_\_

NPDES Number: 0000299 Client Purchase Order Number: 4500073719

State/City/County Collected: Harbeson, Delaware Sussex County

PLEASE READ SAMPLING INSTRUCTIONS ON BACK OF FORM

Accession Number (office use only)	Grab	Composite	Collection		Sample Description (including Site, Station Number, and Outfall Number)	Number/Volume of Container
			Start Date/Time	End Date/Time		
ATO-596		<input checked="" type="checkbox"/>	9-12-10 0800	9-13-10 0800	Outfall 001 Harbeson Allen's WWTP	1 gallon

Sampled By: <u>Christopher Brinson</u>	Date/Time <u>9/13/10 0800</u>	Received By:	Date/Time
Sampler's Printed Name: <u>Christopher Brinson</u>	Title: <u>Line Leader Operator</u>	Relinquished By:	Date/Time
Relinquished By: <u>Michael Lauri</u>	Date/Time <u>9/13/10 10:00 a.m.</u>	Received By Laboratory: <u>Michael Lauri</u>	Date/Time <u>9/14/10 0830</u>

Was Sample Chilled During Collection?  Yes  No

Comments:

Sample Shipped By: (circle)

Fed. Ex.      Puro.       UPS      Airborne

Other: \_\_\_\_\_



### SAMPLE CHECK-IN FOR GENERAL TESTING

Client: Allen Family Foods

EA Accession Number: ATO-596

Parameter	Acceptable Range	Measurement*	Date	Time	Initials
Temperature (°C)	≤4	2.7	9/14/10	0830	VMD
Is ice present?	---	yes	↓	↓	↓
pH	6.0-9.0	7.2			
TRC (mg/L)	<0.01	<0.01	↓	↓	↓

\*If outside acceptable range, contact project manager.

#### OTHER PARAMETERS IF REQUIRED (SEE STUDY PLAN):

Parameter	Acceptable Range	(✓)	Date	Time	Initials
Ammonia (preserve aliquot)	--				



EA Engineering, Science, and Technology

EA Ecotoxicology Laboratory  
15 Loveton Circle  
Sparks (Baltimore), Maryland 21152  
Telephone: (410) 771-4950  
Fax: (410) 771-4204

Wayne McCulloch



Client: Allen Family Foods Project No.: \_\_\_\_\_

NPDES Number: 0000299 Client Purchase Order Number: 4500073719

State/City/County Collected: Harbeson, Delaware Sussex County

FOR OFFICE USE ONLY  
Species to be tested:

_____	D. manga	_____	Menidia sp.
_____	D. pulex	_____	P. pugio
_____	C. dubia	_____	C. variegatus
_____	P. promelas	_____	M. bahia
_____	Other	_____	Other

A = Acute      C = Chornic      B = Bioaccumulation

PLEASE READ SAMPLING INSTRUCTIONS ON BACK OF FORM

Accession Number (office use only)	Grab	Composite	Collection		Sample Description (including Site, Station Number, and Outfall Number)	Number/Volume of Container
			Start Date/Time	End Date/Time		
ATO-6058		✓	9-14-10 0800	9-15-10 0800	Outfall 001 Harbeson Allen's WWTP	

Sampled By: <u>Christopher Brinson</u>	Date/Time <u>9-15-10 0800</u>	Received By: <u>Christie Caldwell</u>	Date/Time <u>9/16/10 1020</u>
Sampler's Printed Name: <u>Christopher Brinson</u>	Title: <u>Line Leader Operator</u>	Relinquished By:	Date/Time
Relinquished By: <u>Michael Lancia</u>	Date/Time <u>9-15-10 10:00</u>	Received By Laboratory: <u>Christie Caldwell</u>	Date/Time <u>9/16/10 1020</u>

Was Sample Chilled During Collection? Yes/No \_\_\_\_\_

Comments: \_\_\_\_\_

Sample Shipped By: (circle) Fed. Ex.      Puro.      UPS      Airborne

Other: \_\_\_\_\_



### SAMPLE CHECK-IN FOR GENERAL TESTING

Client: Allen Foods

EA Accession Number: ATO-608

Parameter	Acceptable Range	Measurement*	Date	Time	Initials
Temperature (°C)	≤4	0.7	9/16/10	1020	CMF
Is ice present?	---	Yes	↓	↓	↓
pH	6.0-9.0	8.0	↓	↓	↓
TRC (mg/L)	<0.01	0.01	↓	↓	↓

\*If outside acceptable range, contact project manager.

#### OTHER PARAMETERS IF REQUIRED (SEE STUDY PLAN):

Parameter	Acceptable Range	(✓)	Date	Time	Initials
Ammonia (preserve aliquot)	--				



EA Ecotoxicology Laboratory  
 15 Loveton Circle  
 Sparks (Baltimore), Maryland 21152  
 Telephone: (410) 771-4950  
 Fax: (410) 771-4204

Wayne McCulloch



FOR OFFICE USE ONLY

Species to be tested:

- |                          |                            |
|--------------------------|----------------------------|
| _____ <i>D. magna</i>    | _____ <i>Menidia sp.</i>   |
| _____ <i>D. pulex</i>    | _____ <i>P. pugio</i>      |
| _____ <i>C. dubia</i>    | _____ <i>C. variegatus</i> |
| _____ <i>P. promelas</i> | _____ <i>M. bahia</i>      |
| _____ Other              | _____ Other                |

A = Acute      C = Chornic      B = Bioaccumulation

Client: Allen Family Foods Project No.: \_\_\_\_\_

NPDES Number: 0000299 Client Purchase Order Number: 4500073719

State/City/County Collected: Harbeson, Delaware Sussex County

PLEASE READ SAMPLING INSTRUCTIONS ON BACK OF FORM

Accession Number (office use only)	Grab	Composite	Collection		Sample Description (including Site, Station Number, and Outfall Number)	Number/Volume of Container
			Start Date/Time	End Date/Time		
<u>A70-623</u>		<input checked="" type="checkbox"/>	<u>9-16-10 0800</u>	<u>9-17-10 0800</u>	<u>Outfall 001 Harbeson Allen's WWTP</u>	<u>2 gallon</u>

Sampled By: <u>Michael Sarsé</u>	Date/Time <u>9-16-10 0800</u>	Received By:	Date/Time
Sampler's Printed Name: <u>Michael Sarsé</u>	Title:	Relinquished By:	Date/Time
Relinquished By: <u>Michael Sarsé</u>	Date/Time <u>9-17-10 10:00</u>	Received By Laboratory: <u>[Signature]</u>	Date/Time <u>9/18/10 0930</u>

Was Sample Chilled During Collection?  Yes  No

Comments:

Sample Shipped By: (circle)  
 Fed. Ex.      Puro.       UPS      Airborne  
 Other: \_\_\_\_\_



**SAMPLE CHECK-IN  
FOR GENERAL TESTING**

Client: Allen Family Food

EA Accession Number: ATO-623

Parameter	Acceptable Range	Measurement*	Date	Time	Initials
Temperature (°C)	≤4	-0.2	9/18/10	0930	CH
Is ice present?	---	YES	↓	↓	↓
pH	6.0-9.0	8.0	↓	↓	↓
TRC (mg/L)	<0.01	<0.01	↓	↓	↓

\*If outside acceptable range, contact project manager.

**OTHER PARAMETERS IF REQUIRED (SEE STUDY PLAN):**

Parameter	Acceptable Range	(✓)	Date	Time	Initials
Ammonia (preserve aliquot)	--				



# TOXICITY TEST SET-UP BENCH SHEET

Project Number: 70005.05  
 Client: Allen Family Foods  
 QC Test Number: TA-10-1017

## TEST ORGANISM INFORMATION

Common Name: Zoothood mumm Adults Isolated (Time, Date):       
 Scientific Name: P. promelas Neonates Pulled & Fed (Time, Date):       
 Lot Number: F40-9/18-14 Acclimation: < 24h Age: 24 hrs  
 Source: EA Culture Water (T/S): 94.7 °C Ø PF

## TEST SET-UP

TEST INITIATION				CONCENTRATION SERIES		
Date	Time	Initials	Activity	Test Concentration	Volume Test Material	Final Volume
9/14/10	0930	MM	Dilutions Made	Control	0ml	1000ml
	0936	MM	Test Vessels Filled	100%	1000ml	↓
	1010	MM	Organisms Transferred			
	1105	R	Head Counts			

Comments:

## INTERMEDIATE DILUTION PREPARATION AND FEEDING

DILUTION PREPARATION					FEEDING			
Day	Date	Time	Initials	Sample / Diluent	Food: Artemia			
Day	Date	Time	Initials	Sample / Diluent	Day	Time, Initials, Amount	Time, Initials, Amount	Time, Initial Amount
0	9/14/10	0930	MM	ATO-596 LDO-325	0			1600 ml 3 drops
1	9/15/10	0935	MM	ATO-596 LDO-327	1	0825 MM 3 drops	1130 MM 3 drops	1610 ml 3 drops
2	9/16/10	1110	MM	ATO-608 LDO-329	2	0920 CH 4 drops	1205 CMF 4 drops	1550 ml 4 drops
3	9-17-10	0845	R	ATO-608 LDO-329	3	0820 CH 4 drops	1210 CH 4 drops	1515 ml 4 drops
4	9/18/10	1110	CH	ATO-623 LDO-332	4	0930 CMF 5 drops	1300 CH 5 drops	1640 CH 5 drops
5	9-19-10	0950	R	ATO-623 LDO-332	5	0850 CMF 5 drops	1225 CMF 5 drops	1600 CMF 5 drops
6	9/20-10	1000	MM	ATO-623 LDO-333	6	0715 MM 5 drops	1215 5 drops	1635 CM 5 drops



# TOXICITY TEST WATER QUALITY DATA SHEET - NEW SOLUTIONS

Project Number: 70005.08 TEST ORGANISM: 9/17/10 Beginning Date: 9/17/10 Time: 1010  
 Client: Allen Family Foods Common Name: Fathead minnow Ending Date: 9-21-10 Time: 1105  
 QC Test Number: TN-10-1017 Scientific Name: P. promelas

TARGET VALUES: Temp: 25 ± 1 °C pH: 6.0 - 9.0 DO: 2.4 mg/L Salinity: 0 ppt Photoperiod: 16L, 8D Light Intensity: 50 - 100 fc

Test Conc	Rep	Temperature (°C)							pH							Dissolved Oxygen (mg/L)							Conductivity (µS/cm) Salinity (ppt)						
		0	1	2	3	4	5	6	0	1	2	3	4	5	6	0	1	2	3	4	5	6	0	1	2	3	4	5	6
Control		24.5	24.1	24.2	24.0	24.3	24.4	24.1	8.0	8.2	8.0	8.3	8.3	7.7	7.8	8.7	8.0	8.2	8.0	30.2	30.7	30.8	30.9	30.7	31.3	30.5			
100%		24.5	24.4	24.5	24.5	24.1	24.1	24.1	7.7	7.6	8.0	8.0	8.0	8.0	8.1	8.4	8.3	8.2	8.0	116.6	116.8	126.0	126.1	127.2	125.7	126.6			
Meter Number		675	674	675	675	674	675	675	675	674	675	675	674	675	675	674	675	675	675	675	675	674	675	675	675	674			
Time		0938	1112	0940	1150	0955	1005	0955	0938	1122	0940	1122	0940	1150	0955	1122	0940	1150	0955	0938	1112	0940	1150	0955	1025				
Initials		MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD			



# TOXICITY TEST WATER QUALITY DATA SHEET - OLD SOLUTIONS

Project Number: 70005.01 TEST ORGANISM: \_\_\_\_\_ Beginning Date: 9/14/10 Time: 10:10  
 Client: Allen Family Foods Common Name: Yeast Ending Date: 9-21-10 Time: 11:05  
 QC Test Number: 70-10-1017 Scientific Name: P. pastoris

TARGET VALUES Temp: 8.5 ± 1 °C pH: 6.0 - 9.0 DO: 3.4 mg/L Salinity: 0 ppt Photoperiod: 16 L, 8 D Light Intensity: 50 - 100 fc

Test Conc	Rep	Temperature (°C)							pH							Dissolved Oxygen (mg/L)							Conductivity (µS/cm) Salinity (ppt)						
		1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
Control		24.5	24.6	24.7	24.7	24.1	24.1	24.1	8.0	7.7	8.0	7.8	7.8	8.0	8.0	7.1	5.4	6.4	5.9	4.7	6.0	6.5	3.11	3.23	3.22	3.26	3.41	3.81	3.99
100%		24.6	24.5	24.2	24.2	24.3	24.0	24.5	7.7	7.8	7.8	7.4	7.5	7.4	7.7	7.0	6.3	6.4	5.6	5.5	5.3	6.3	11.4	11.6	12.7	12.2	12.5	12.8	12.7
Meter Number		675	675	675	675	674	674	675	675	675	675	675	675	674	674	675	675	675	675	675	675	675	675	675	675	675	675	674	
Time		09:45	11:20	09:34	09:00	10:05	11:10	09:45	09:45	11:20	09:34	09:00	10:05	11:10	09:45	11:20	09:34	09:00	10:05	11:10	09:45	11:20	09:34	09:00	10:05	11:10			
Initials		CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH		

CH 9/16



# TOXICITY TEST OBSERVATION DATA SHEET

Project Number: 7000508      Beginning Date: 9-14-10      Time: 1010  
 Client: Albin Family Foods      Common Name: Zethed amon      Ending Date: 9-21-10      Time: 1105  
 QC Test Number: TL-10-1017      Scientific Name: P. promela  
 Test Material: affluent  
 Accession Number: ATD-596      TEST TYPE:  Static /  Flowthrough      Test Container: 11 beaker  
 Dilution Water: Med School       Renewal /  Non-renewal      Test Volume: 250 ml  
 Accession Number: LDO-325      Photoperiod: 16 L, 8 d      Light Intensity: 50 - 100 fc      Test Duration: 7 days

Concentration	Rep	Number of Surviving Organisms							
		Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
Control	A	10	10	10	10	10	10	10	10
	B	10	9	9	9	9	9	9	9
	C	10	10	10	10	10	10	10	10
	D	10	10	10	10	9	9	9	9
100%	A	10	9	9	10 <sup>9</sup> <del>10</del> <sup>initial</sup>	9	9	9	9
	B	10	10	9	9	9	9	9	
	C	10	10	9	9	9	9	9	
	D	10	10	10	10	10	10	10	10
Time / Initials		1105 JR	0950 MWD	1130 MWD	1015 JR	1205 CH	1010 JR	1020 MWD	1105 JR



# WEIGHT DATA (Test Species: P. flemingii)

Project Number: 70005 01 Date: 9-21-10 Time: 1130 Initials: JR  
 Client: Albin Family Food  
 QC Test Number: IN-10-1017 Loaded tins placed in oven: 9/21/10 1130 JR  
 Tin Lot: Black 63 Loaded tins removed from oven: 9/21/10 1015 MD  
 Oven Temp (°C): Start: 100 End: 100 Loaded tins weighed: 9/23/10 0845 MD  
 Balance Number: P0115825

Test Concentration	Rep	Tin #	A Weight of Tin (mg)	B Weight of Tin and Dried Organisms (mg)	B-A Total Dry Organism Weight (mg)	C Number of Organisms Weighed	(B-A)/C Mean Dry Organism Weight (mg)	(if applicable) Mean Biomass (mg/exposed org.)
<u>Control</u>	<u>A</u>	<u>118</u>	<u>29.63</u>	<u>38.07</u>	<u>8.44</u>	<u>10</u>	<u>0.844</u>	<u>0.844</u>
	<u>B</u>	<u>32</u>	<u>28.57</u>	<u>36.41</u>	<u>7.84</u>	<u>9</u>	<u>0.871</u>	<u>0.784</u>
	<u>C</u>	<u>106</u>	<u>28.74</u>	<u>36.71</u>	<u>1.277-797</u>	<u>10</u>	<u>0.1277-797</u>	<u>0.797</u>
	<u>D</u>	<u>56</u>	<u>29.60</u>	<u>37.06</u>	<u>7.46</u>	<u>9</u>	<u>0.828</u>	<u>0.746</u>
<u>100%</u>	<u>A</u>	<u>67</u>	<u>29.49</u>	<u>37.57</u>	<u>8.08</u>	<u>9</u>	<u>0.897</u>	<u>0.808</u>
	<u>B</u>	<u>46</u>	<u>29.34</u>	<u>35.77</u>	<u>6.43</u>	<u>9</u>	<u>0.714</u>	<u>0.643</u>
	<u>C</u>	<u>66</u>	<u>29.77</u>	<u>37.90</u>	<u>8.13</u>	<u>9</u>	<u>0.903</u>	<u>0.813</u>
	<u>D</u>	<u>74</u>	<u>29.01</u>	<u>37.72</u>	<u>8.71</u>	<u>10</u>	<u>0.871</u>	<u>0.871</u>

Dry wt. calculations checked (date, initials): 10/14/10 MD Biomass calculations checked (date, initials): 10/14/10 MD



# TOXICOLOGY LABORATORY BENCH SHEET

Project Number: 70005.08

Client: Allen Family Foods

QC Test Number: TN-10-1016

Aliquot of sample warmed to test temperature, then aerated if supersaturated:

Date	Sample #	ON AIR			OFF AIR		
		Initial DO (mg/L)	Time	Initials	Final DO (mg/L)	Time	Initials
9/14/10	A70-596	9.7	0900	MM	8.7	0915	MM
9/15/10	A70-596	9.6	0910	CMF	8.3	0920	CMF
9/16/10	A70-608	10.1	1055	CMF	8.8	1010	MM
9-17-10	A70-608	8.2	0830	R	—	—	—
9/18/10	A70-621 102	9.8	1050	CM	8.5	1100	CM
9-19-10	A70-623 112	9.0	0920	R	8.2	0940	R
9/20/10	A70-623 2052	10.1	0835	CMF	8.3	0855	R
9/21/10	A70-623 1042	10.2	1545	CMF	8.3	1600	CMF



# TOXICOLOGY LABORATORY BENCH SHEET

Project Number: 7005.08

Client: Allen Family Food

QC Test Number: TA-10-1017

Date/Time/Initials

Comments/Activity

**Larval Fish Growth and Survival Test-7 Day Survival**

Start Date: 9/14/2010	Test ID: TN-10-1017	Sample ID: Allen Family Foods
End Date: 9/21/2010	Lab ID:	Sample Type: Outfall 001
Sample Date:	Protocol: EPAF 91-EPA Freshwater	Test Species: PP-Pimephales promelas
Comments:		

Conc-%	1	2	3	4
Control	1.0000	0.9000	1.0000	0.9000
100	0.9000	0.9000	0.9000	1.0000

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root				N	t-Stat	1-Tailed	
			Mean	Min	Max	CV%			Critical	MSD
Control	0.9500	1.0000	1.3305	1.2490	1.4120	7.072	4	0.655	1.943	0.1209
100	0.9250	0.9737	1.2898	1.2490	1.4120	6.318	4			

Auxiliary Tests	Statistic	Critical	Skew	Kurt		
Shapiro-Wilk's Test indicates normal distribution ( $p > 0.01$ )	0.82784	0.749	0.57143	-1.7286		
F-Test indicates equal variances ( $p = 0.82$ )	1.33333	47.4672				
Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates no significant differences	0.06826	0.07236	0.00332	0.00775	0.53696	1, 6

**Larval Fish Growth and Survival Test-7 Day Biomass**

Start Date: 9/14/2010      Test ID: TN-10-1017      Sample ID: Allen Family Foods  
 End Date: 9/21/2010      Lab ID:      Sample Type: Outfall 001  
 Sample Date:      Protocol: EPAF 91-EPA Freshwater      Test Species: PP-Pimephales promelas  
 Comments:

Conc-%	1	2	3	4	s.d.
Control	0.8440	0.7840	0.7970	0.7460	0.04044
100	0.8080	0.6430	0.8130	0.8710	0.09809

Conc-%	Mean	N-Mean	Transform: Untransformed				N	t-Stat	1-Tailed	
			Mean	Min	Max	CV%			Critical	MSD
Control	0.7928	1.0000	0.7928	0.7460	0.8440	5.102	4	0.170	1.943	0.1031
100	0.7838	0.9886	0.7838	0.6430	0.8710	12.516	4			

Auxiliary Tests	Statistic	Critical	Skew	Kurt		
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.92488	0.749	-1.1669	1.92176		
F-Test indicates equal variances (p = 0.18)	5.88307	47.4672				
Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates no significant differences	0.10309	0.13004	0.00016	0.00563	0.87086	1, 6



EA Ecotoxicology Laboratory  
 15 Loveton Circle  
 Sparks (Baltimore), Maryland 21152  
 Telephone: (410) 771-4950  
 Fax: (410) 771-4204

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Species to be tested:

- |   |   |
|---|---|
| <input type="checkbox"/> <i>D. manga</i>    | <input type="checkbox"/> <i>Menidia sp.</i>   |
| <input type="checkbox"/> <i>D. pulex</i>    | <input type="checkbox"/> <i>P. pugio</i>      |
| <input type="checkbox"/> <i>C. dubia</i>    | <input type="checkbox"/> <i>C. variegatus</i> |
| <input type="checkbox"/> <i>P. promelas</i> | <input type="checkbox"/> <i>M. bahia</i>      |
| <input type="checkbox"/> Other              | <input type="checkbox"/> Other                |

A = Acute      C = Chronic      B = Bioaccumulation

Client: Allens Family Pub. Project No.: \_\_\_\_\_

NPDES Number: 0000299 Client Purchase Order Number: 4500073719

State/City/County Collected: De-Harbeson-Sussex

PLEASE READ SAMPLING INSTRUCTIONS ON BACK OF FORM

Accession Number (office use only)	Grab	Composite	Collection		Sample Description (including Site, Station Number, and Outfall Number)	Number/Volume of Container
			Start Date/Time	End Date/Time		
ATO-684		✓	10-3-10-0800	10-4-10-0800	Out Fall 001-Harbeson Allens	1 gal

Sampled By: <i>TJP</i>	Date/Time	Received By:	Date/Time
Sampler's Printed Name: Thomas J Paine	Title: Asst. Supervisor	Relinquished By:	Date/Time
Relinquished By: <i>TJP</i>	Date/Time 10-4-10 - 1100	Received By Laboratory: <i>Mendenhall</i>	Date/Time 10/5/10 0810

Was Sample Chilled During Collection? Yes/No

Comments:

Sample Shipped By: (circle)

Fed. Ex.      Puro.      UPS      Airborne

Other: \_\_\_\_\_



### SAMPLE CHECK-IN FOR GENERAL TESTING

Client: Allen Family Foods

EA Accession Number: ATO-684

Parameter	Acceptable Range	Measurement*	Date	Time	Initials
Temperature (°C)	≤4	0.1	10/5/10	0815	CMF
Is ice present?	---	Yes	↓	↓	↓
pH	6.0-9.0	7.3	↓	↓	↓
TRC (mg/L)	<0.01	<0.01	↓	↓	↓

\*If outside acceptable range, contact project manager.

#### OTHER PARAMETERS IF REQUIRED (SEE STUDY PLAN):

Parameter	Acceptable Range	(✓)	Date	Time	Initials
Ammonia (preserve aliquot)	---				



EA Ecotoxicology Laboratory  
 15 Loveton Circle  
 Sparks (Baltimore), Maryland 21152  
 Telephone: (410) 771-4950  
 Fax: (410) 771-4204



Client: Alloy Family Foods Project No.: \_\_\_\_\_

NPDES Number: 0000299 Client Purchase Order Number: 4500073719

State/City/County Collected: De - Harbeson - Sussex

FOR OFFICE USE ONLY  
 Species to be tested:

_____ <i>D. manga</i>	_____ <i>Menidia sp.</i>
_____ <i>D. pulex</i>	_____ <i>P. pugio</i>
_____ <i>C. dubia</i>	_____ <i>C. variegatus</i>
_____ <i>P. promelas</i>	_____ <i>M. bahia</i>
_____ Other	_____ Other

A = Acute    C = Chronic    B = Bioaccumulation

PLEASE READ SAMPLING INSTRUCTIONS ON BACK OF FORM

Accession Number (office use only)	Grab	Composite	Collection		Sample Description (including Site, Station Number, and Outfall Number)	Number/Volume of Container
			Start Date/Time	End Date/Time		
A10-695		✓	10-5-10-0800	10-6-10-0800	Out Fall - Harbeson Alloys	194

Sampled By: <i>[Signature]</i>	Date/Time	Received By:	Date/Time
Sampler's Printed Name: <i>Thomas J. Paine</i>	Title: <i>Asst Supervisor</i>	Relinquished By:	Date/Time
Relinquished By: <i>[Signature]</i>	Date/Time: <i>10-6-10-0800</i>	Received by Laboratory: <i>[Signature]</i>	Date/Time: <i>10/7/10 0815</i>

Was Sample Chilled During Collection? Yes/No

Comments:

Sample Shipped By: (circle)

Fed. Ex.    Puro.    UPS    Airborne

Other: \_\_\_\_\_



**SAMPLE CHECK-IN  
FOR GENERAL TESTING**

Client: Allen Foods

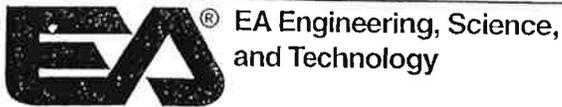
EA Accession Number: ATO - 695

Parameter	Acceptable Range	Measurement*	Date	Time	Initials
Temperature (°C)	≤4	0.0°C	10/7/10	0815	CH
Is ice present?	---	YES	↓	↓	↓
pH	6.0-9.0	7.6	↓	↓	↓
TRC (mg/L)	<0.01	<0.01	↓	↓	↓

\*If outside acceptable range, contact project manager.

**OTHER PARAMETERS IF REQUIRED (SEE STUDY PLAN):**

Parameter	Acceptable Range	(✓)	Date	Time	Initials
Ammonia (preserve aliquot)	---				



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 Fax: (410) 771-4204



Client: Allens Family Foods Project No.: \_\_\_\_\_

NPDES Number: 0000299 Client Purchase Order Number: 4500073719

State/City/County Collected: \_\_\_\_\_

FOR OFFICE USE ONLY  
 Species to be tested:

<input type="checkbox"/> <i>D. manga</i>	<input type="checkbox"/> <i>Menidia sp.</i>
<input type="checkbox"/> <i>D. pulex</i>	<input type="checkbox"/> <i>P. pugio</i>
<input checked="" type="checkbox"/> <i>C. dubia</i>	<input type="checkbox"/> <i>C. variegatus</i>
<input type="checkbox"/> <i>P. promelas</i>	<input type="checkbox"/> <i>M. bahia</i>
<input type="checkbox"/> Other	<input type="checkbox"/> Other

A = Acute     Chornic    B = Bioaccumulation

PLEASE READ SAMPLING INSTRUCTIONS ON BACK OF FORM

Accession Number (office use only)	Grab	Composite	Collection		Sample Description (including Site, Station Number, and Outfall Number)	Number/Volume of Container
			Start Date/Time	End Date/Time		
A10-206		✓	10-7-0800	10-8-0800	Dist Fall-Harbeson-Allens	1gal

Sampled By: <i>TG R</i>	Date/Time	Received By:	Date/Time
Sampler's Printed Name: <i>Thomas J Parre</i>	Title: <i>Asst Supervisor</i>	Relinquished By:	Date/Time
Relinquished By: <i>TJR</i>	Date/Time <i>10-8-10 - 0800</i>	Received By Laboratory <i>TJR EA</i>	Date/Time <i>10-9-10 0830</i>

Was Sample Chilled During Collection? Yes/No

Comments:

Sample Shipped By: (circle)

Fed. Ex.      Puro.       UPS      Airborne

Other: \_\_\_\_\_



### SAMPLE CHECK-IN FOR GENERAL TESTING

Client: Alma Family Food

EA Accession Number: AT0-206

Parameter	Acceptable Range	Measurement*	Date	Time	Initials
Temperature (°C)	≤4	1.4	10-9-10	0830	J
Is ice present?	---	Yes	↓	↓	↓
pH	6.0-9.0	7.8	↓	↓	↓
TRC (mg/L)	<0.01	20.01	↓	↓	↓

\*If outside acceptable range, contact project manager.

OTHER PARAMETERS IF REQUIRED (SEE STUDY PLAN):

Parameter	Acceptable Range	(✓)	Date	Time	Initials
Ammonia (preserve aliquot)	--				



# C. dubia CHRONIC TOXICITY TEST DATA SHEET

Test Method: EPA 821-R-02-013 (1002.0)

Beginning Date: 10/5/10 Time: 0910

Project Number: 70005.08

Ending Date: 10/11/10 Time: 1430

Client: Allen Family Foods

QC Test Number: TN-10-1172

Adults Isolated Date: 10/4/10 Time: 1205

Test Material: Effluent

Neonates Pulled Date: 10/4/10 Time: 1655

Accession Number: ATO-684

Age of Neonates: <24 hrs Brood Size: 8+

Dilution Water: Mod Hard

Source: EA

Accession Number: LDO-351

Culture Water Temperature: 25.3 °C

Test Container: 30 mL cup Test Volume: 15 mL

Photoperiod: 16L, 8d Light Intensity: 50 - 100 fc

TEST SET-UP						
TEST INITIATION				CONCENTRATION SERIES		
Date	Time	Initials	Activity	Test Concentration	Volume Test Material	Final Volume
10/5/10	0900	CMF	Dilutions Made	control	0 mL	200 mL
	0900	CMF	Test Vessels Filled	100%	100 mL	↓
	0910	CMF	Organisms Transferred			
	0915	MMJ	Head Counts			
Comments:						

INTERMEDIATE DILUTION PREPARATION AND FEEDING									
DILUTION PREPARATION					FEEDING				
Day	Date	Time	Initials	Sample / Diluent	Day	Date	Time	Initials	Amount
0	10/5/10	0900	CMF	ATO-684 LDO-351	0	10/5/10	0915	MMJ	200 µL
1	10/6/10	1045	MMJ	ATO-684 LDO-354	1	10/6/10	1055	MMJ	200 µL
2	10/7/10	0920	CM	ATO-685 LDO-359	2	10/7/10	0940	CM	200 µL
3	10/8/10	0930	CM	ATO-685 LDO-355	3	10/8/10	1005	CM	200 µL
4	10/9/10	0945	CM	ATO-706 LDO-357	4	10/9/10	1000	CM	200 µL
5	10/10/10	1110	CMF	ATO-706 LDO-358	5	10/10/10	1120	CMF	200 µL
6					6				



*Ceriodaphnia dubia* CHRONIC TOXICITY TEST QC Test Number: TW-10-117

Wien Family Foods

First column=# neonates ; Second column = 0 (female), 1 (dead female), 2 (male), 3 (dead male), 9 (lost replicate)

Contra 1

Concentration	Day	1	2	3	4	5	6	7	8	9	10	Time/Initials
	1	0	0	0	0	0	0	0	0	0	0	1050 WH
	2	0	0	0	0	0	0	0	0	0	0	0935 CH
	3	0 0	0 0	0 0	0 0	0 0	0 0	0 0	2 0	4 0	0 0	0955 CH
	4	4 0	5 0	4 0	4 0	5 0	5 0	4 0	2 0	0 0	5 0	0955 CH
	5	4 0	6 0	3 0	7 0	6 0	0 0	7 0	7 0	5 0	5 0	1115 CH
	6	7 0	6 0	6 0	9 0	6 0	3 0	7 0	10 0	6 0	6 0	1430 CMF
	7											
Total # Neonates:		15	17	13	20	17	8	18	21	15	16	

Concentration	Day	1	2	3	4	5	6	7	8	9	10	Time/Initials
	1											
	2											
	3											
	4											
	5											
	6											
	7											

Concentration	Day	1	2	3	4	5	6	7	8	9	10	Time/Initials
	1	0	0	0	0	0	0	0	0	0	0	WH
	2	0	0	0	0	0	0	0	0	0	0	CH
	3	4 0	3 0	2 0	2 0	0 0	0 0	0 0	2 0	4 0	0 0	CH
	4	0 0	0 0	0 0	0 0	5 0	4 0	5 0	0 0	0 0	4 0	CMF
	5	5 0	8 0	1 0	6 0	1 0	0 0	7 0	7 0	6 0	4 0	CMF
	6	10 0	7 0	4 0	8 0	1 0	4 0	7 0	9 0	9 0	6 0	CMF
	7											
Total # Neonates:		19	18	7	16	7	8	19	18	19	16(4)	

100%

Concentration	Day	1	2	3	4	5	6	7	8	9	10	Time/Initials
	1											
	2											
	3											
	4											
	5											
	6											
	7											

Concentration	Day	1	2	3	4	5	6	7	8	9	10	Time/Initials
	1											
	2											
	3											
	4											
	5											
	6											
	7											

Concentration	Day	1	2	3	4	5	6	7	8	9	10	Time/Initials
	1											
	2											
	3											
	4											
	5											
	6											
	7											

Neonate totals checked (date, initials): 10/12/10, SR



# TOXICITY TEST WATER QUALITY DATA SHEET - NEW SOLUTIONS

Project Number: 70005.08  
 Client: Allen Family Foods  
 QC Test Number: TN-10-1172

**TEST ORGANISM**

Common Name: water flea  
 Scientific Name: C. dubia

Beginning Date: 10/5/10 Time: 0910  
 Ending Date: 10/11/10 Time: 1430

TARGET VALUES: Temp: 25 ± 1 °C pH: 6.0 - 9.0 DO: 2.4 mg/L Salinity: 0 ppt Photoperiod: 16 L 8 D Light Intensity: 50 - 100 fc

% Test Conc	Rep	Temperature (°C)						pH						Dissolved Oxygen (mg/L)						Conductivity (µS/cm) Salinity (ppt)												
		0	1	2	3	4	5	6	0	1	2	3	4	5	6	0	1	2	3	4	5	6	0	1	2	3	4	5	6			
control		24.3	24.2	25.2	24.6	24.0	24.6	8.0	8.3	8.2	7.7	8.1	8.2	8.3	8.6	8.2	7.7	8.2	8.3	318	310	311	316	329	324							
100		24.4	24.3	24.7	24.9	24.8	24.8	7.5	8.1	8.1	7.9	7.6	8.0	8.1	7.4	8.4	8.0	8.3	8.3	1054	1071	1084	1068	1078	1034							
Meter Number		675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675							
Time		0905	1046	0935	0950	0950	1110	0925	1046	0925	0950	1110	0905	1046	0925	0935	0950	1110	0905	1046	0925	0935	0950	1110								
Initials		CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF							



# TOXICITY TEST WATER QUALITY DATA SHEET - OLD SOLUTIONS

Project Number: 70005.08 TEST ORGANISM: Water Flea Beginning Date: 10/5/10 Time: 0910  
 Client: Allen Family Foods Common Name: Water Flea Ending Date: 10/11/10 Time: 1:30  
 QC Test Number: TN-10-117Z Scientific Name: C. dubia

TARGET VALUES Temp: 25 ± 1 °C pH: 6.0 - 9.0 DO: 2.4 mg/L Salinity: 0 ppt Photoperiod: 16 L 8 D Light Intensity: 50 - 100 fc

% Test Conc	Rep	Temperature (°C)							pH							Dissolved Oxygen (mg/L)							Conductivity (µS/cm) Salinity (ppt)								
		1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7		
Control		24.7	24.5	24.8	24.2	24.5	24.9	8.4	8.2	8.0	8.1	8.1	7.0	8.3	8.2	7.8	7.9	8.2	359	330	327	336	331	330							
100		24.7	25.0	24.8	24.1	24.6	25.1	8.2	8.2	8.1	8.0	8.0	7.0	8.5	8.0	8.6	8.1	7.9	1116	1105	1087	1120	1107	1134							
Meter Number		075	075	075	075	075	075	075	075	075	075	075	075	075	075	075	075	075	075	075	075	075	075								
Time		1053	0940	1005	1005	1020	1120	1053	0940	1005	1005	1120	1053	0940	1005	1005	1120	1053	0940	1005	1005	1120									
Initials		MJD	CA	CA	CA	CA	CMF	MJD	CA	CA	CA	CMF	MJD	CA	CA	CA	CMF	MJD	CA	CA	CA	CMF									



# TOXICOLOGY LABORATORY BENCH SHEET

Project Number: 70005.08

Client: Allen Family Foods

QC Test Number: TN-10-1172

Aliquot of sample warmed to test temperature, then aerated if supersaturated:

Date	Sample #	ON AIR			OFF AIR		
		Initial DO (mg/L)	Time	Initials	Final DO (mg/L)	Time	Initials
10/5/10	ATO-684	10.4	0840	CMF	8.4	0855	MMJ
10/6/10	ATO-684	9.1	0818	MMJ	8.3	0830	CMF
10/7/10	ATO-695	11.7	0855	CM	8.5	0915	CM
10/8/10	ATO-695	9.0	0855	CM	7.4	0915	CM
10/9/10	ATO-706	8.3	0935	CM	—	—	—
10/10/10	<del>ATO-721</del> ATO-706	8.9	0850	CMF	8.3	0900	CMF

CMF  
0110



# TOXICOLOGY LABORATORY BENCH SHEET

Project Number: 70005.08

Client: Allen Family Foods

QC Test Number: TN-10-1172

Date/Time/Initials

Comments/Activity

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**Ceriodaphnia Survival and Reproduction Test-6 Day Survival**

Start Date: 10/5/2010      Test ID: TN-10-1172      Sample ID: Allen Family Foods  
 End Date: 10/11/2010      Lab ID:      Sample Type: Effluent  
 Sample Date:      Protocol: EPAF 91-EPA Freshwater      Test Species: CD-Ceriodaphnia dubia  
 Comments:

Conc-%	1	2	3	4	5	6	7	8	9	10
Control	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Conc-%	Mean	N-Mean	Resp	Not Resp	Total	N	Fisher's Exact P	1-Tailed Critical
Control	1.0000	1.0000	0	10	10	10		
100	1.0000	1.0000	0	10	10	10	1.0000	0.0500

Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU
Fisher's Exact Test	100	>100		1

**Ceriodaphnia Survival and Reproduction Test-Reproduction**

Start Date: 10/5/2010	Test ID: TN-10-1172	Sample ID: Allen Family Foods
End Date: 10/11/2010	Lab ID:	Sample Type: Effluent
Sample Date:	Protocol: EPAF 91-EPA Freshwater	Test Species: CD-Ceriodaphnia dubia
Comments:		

Conc-%	1	2	3	4	5	6	7	8	9	10	s.d.
Control	15.000	17.000	13.000	20.000	17.000	8.000	18.000	21.000	15.000	16.000	3.68179
100	19.000	18.000	7.000	16.000	7.000	8.000	19.000	18.000	19.000	14.000	5.1908

Conc-%	Mean	N-Mean	Transform: Untransformed					N	t-Stat	1-Tailed Critical	MSD
			Mean	Min	Max	CV%					
Control	16.000	1.0000	16.0000	8.0000	21.0000	23.011	10				
100	14.500	0.9063	14.5000	7.0000	19.0000	35.799	10	0.745	1.734	3.4897	

Auxiliary Tests	Statistic	Critical	Skew	Kurt		
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.87475	0.868	-0.7642	-0.6486		
F-Test indicates equal variances (p = 0.32)	1.9877	6.54109				
Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates no significant differences	3.48974	0.21811	11.25	20.25	0.46568	1, 18

## **ATTACHMENT II**

Report Quality Assurance Record  
(2 pages)



# REPORT QUALITY ASSURANCE RECORD

Client: Allen Family Foods

Project Number: 70005.08

Author: Wayne McCalloch

EA Report Number: 6057

## REPORT CHECKLIST

<u>QA/QC ITEM</u>	<u>REVIEWER</u>	<u>DATE</u>
1. Samples collected, transported, and received according to study plan requirements.	<u>Wayne McCalloch</u>	<u>10/19/10</u>
2. Samples prepared and processed according to study plan requirements.	<u>Wayne McCalloch</u>	<u>10/19/10</u>
3. Data collected using calibrated instruments and equipment.	<u>Wayne McCalloch</u>	<u>10/19/10</u>
4. Calculations checked:		
- Hand calculations checked	<u>Wayne McCalloch</u>	<u>10/19/10</u>
- Documented and verified statistical procedure used.	<u>Wayne McCalloch</u>	<u>10/19/10</u>
5. Data input/statistical analyses complete and correct.	<u>Hilary Flockwood</u>	<u>10/20/10</u>
6. Reported results and facts checked against original sources.	<u>Hilary Flockwood</u>	<u>10/20/10</u>
7. Data presented in figures and tables correct and in agreement with text.	<u>Hilary Flockwood</u>	<u>10/20/10</u>
8. Results reviewed for compliance with study plan requirements.	<u>Wayne McCalloch</u>	<u>10/19/10</u>

	<u>AUTHOR</u>	<u>DATE</u>
9. Commentary reviewed and resolved.	<u>Wayne McCalloch</u>	<u>10/21/10</u>
10. All study plan and quality assurance/control requirements have been met and the report is approved:		
	<u>Wayne McCalloch</u>	<u>10/21/10</u>
	PROJECT MANAGER	DATE
	<u>Hilary Flockwood</u>	<u>10/20/10</u>
	QUALITY CONTROL OFFICER	DATE
	<u>[Signature]</u>	<u>10/20/10</u>
	SENIOR TECHNICAL REVIEWER	DATE

**Attachment D – Further Explanation of EPA Form 2C, Item V, Outfall 002**

During the last three (3) years of monitoring, no recordable discharges (i.e. discharges resulting from a storm event that is greater than 0.1 inches and at least 72 consecutive hours from the previously measureable storm event) have occurred from Outfall 002. Water collected in Outfall 002 sump has been pumped from the sump and into Anoxic Biological Nutrient Removal (BNR) Basin A, where it subsequently undergoes treatment prior to being discharged via Outfall 001.

Allen Family Foods, Inc. does not intend to discharge untreated water from Outfall 002 for the purposes of acquiring recent (less than 3 years old) analytical data. John DeFriece of the Delaware Department of Natural Resources and Environmental Control agrees with this decision.

**Attachment E – Further Explanation of EPA Form 2C, Item V, Outfall 003**

During the last three (3) years of monitoring, no recordable discharges (i.e. discharges resulting from a storm event that is greater than 0.1 inches and at least 72 consecutive hours from the previously measureable storm event) have occurred from Outfall 003. Water collected in Outfall 003 sump has been pumped from the sump and into Anoxic Biological Nutrient Removal (BNR) Basin A, where it subsequently undergoes treatment prior to being discharged via Outfall 001.

Allen Family Foods, Inc. does not intend to discharge untreated water from Outfall 003 for the purposes of acquiring recent (less than 3 years old) analytical data. John DeFriece of the Delaware Department of Natural Resources and Environmental Control agrees with this decision.