Administrative Package Cover Page

This file contains the following documents:

1. Summary of application (in plain language)
2. First Notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
3. Application Materials

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

Applicants should use this template to develop a plain language summary of your facility and application as required by Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H. You may modify the template as necessary to accurately describe your facility as long as the summary includes the following information: (1) the function of the proposed plant or facility; (2) the expected output of the proposed plant or facility; (3) the expected pollutants that may be emitted or discharged by the proposed plant or facility; and (4) how you will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

Fill in the highlighted areas below to describe your facility and application in plain language. Instructions and examples are provided below. Make any other edits necessary to improve readability or grammar and to comply with the rule requirements. After filling in the information for your facility delete these instructions.

If you are subject to the alternative language notice requirements in 30 TAC Section 39.426, **you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package**. For your convenience, a Spanish template has been provided below.

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS INDUSTRIAL WASTEWATER/STORMWATER

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

BlueTriton Brands, Inc. (CN601458458) operates Nestle Waters North America Wood County Bottling Plant (RN102935301), a facility that manufactures, stores, bottles and distributes spring and drinking water products. The facility is located at 3265 Farm-to-Market 2869, in Hawkins, Wood County, Texas 75765. Primo Brands has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004812000
(EPA I.D. No. TX0129186) to authorize an increase of the discharge of wastewater to a volume not to exceed a daily average flow of 250,000 gallons per day and daily max flow of 330,000 gallons per day.

Discharges from the facility are expected to contain suspended solids, dissolved solids, sulfate, chloride, *E. coli*, and oil and grease. Wastewater is generated from the various bottling operations including Reverse-Osmosis units, bottling filler spill and flushes, cleaning water from bottling lines, Clean-in-Place processes, carbon and microfiltration systems, boiler

blowdown and cooling tower blowdown and will be treated by oil/water/grit separator drains to a neutralizer tank to adjust the pH due to low pH of source water. The water then flows through wetland cells and evaporative cell to a discharge pipeline outleting in Big Sandy Creek .

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

NOTICE OF RECEIPT OF APPLICATION AND INTENT TO OBTAIN WATER QUALITY PERMIT AMENDMENT

PERMIT NO. WQ0004812000

APPLICATION. BlueTriton Brands, Inc., 900 Long Ridge Road Building 2, Stamford, Connecticut 06902, which owns a facility that manufactures, stores, bottles, and distributes spring water and drinking water products, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004812000 (EPA I.D. No. TX0129186) to authorize an increase in the discharge of treated wastewater to a volume not to exceed a daily average flow of 250,000 gallons per day from 2 additional bottling lines. The facility is located at 3265 South Farm-to-Market Road 2869, near the city of Hawkins, in Wood County, Texas 75765. The discharge route is from the plant site directly to Big Sandy Creek. TCEQ received this application on June 04, 2025. The permit application will be available for viewing and copying at Wood County Courthouse, Clerk's Office, 100 Main Street, Quitman, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.191666,32.666111&level=18

ADDITIONAL NOTICE. TCEQ's Executive Director has determined the application is administratively complete and will conduct a technical review of the application. After technical review of the application is complete, the Executive Director may prepare a draft permit and will issue a preliminary decision on the application. **Notice of the Application and Preliminary Decision will be published and mailed to those who are on the county-wide mailing list and to those who are on the mailing list for this application. That notice will contain the deadline for submitting public comments.**

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a response to all relevant and material, or significant public comments. **Unless the application is directly referred for a contested case hearing, the response to comments, and the Executive Director's decision on the application, will be mailed to everyone who submitted public comments and to those persons who are on the mailing list for this application. If comments are received, the mailing will also provide instructions for requesting reconsideration of the Executive Director's decision and for requesting a contested case hearing.** A contested case hearing is a legal proceeding similar to a civil trial in state district court.

TO REQUEST A CONTESTED CASE HEARING, YOU MUST INCLUDE THE FOLLOWING ITEMS IN YOUR REQUEST: your name, address, phone number; applicant's name and proposed permit number; the location and distance of your property/activities relative to the proposed facility; a specific description of how you would be adversely affected by the facility in a way not common to the general public; a list of all disputed issues of fact that you submit during the comment period and, the statement "[I/we] request a contested case hearing." If the request for contested case hearing is filed on behalf of a group or association, the request must designate the group's representative for receiving future correspondence; identify by name and physical address an individual member of the group who would be adversely affected by the proposed facility or activity; provide the information discussed above regarding the affected member's location and distance from the facility or activity; explain how and why the member would be affected; and explain how the interests the group seeks to protect are relevant to the group's purpose.

Following the close of all applicable comment and request periods, the Executive Director will forward the application and any requests for reconsideration or for a contested case hearing to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. **If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period.**

MAILING LIST. If you submit public comments, a request for a contested case hearing or a reconsideration of the Executive Director's decision, you will be added to the mailing list for this specific application to receive future public notices mailed by the Office of the Chief Clerk. In addition, you may request to be placed on: (1) the permanent mailing list for a specific applicant name and permit number; and/or (2) the mailing list for a specific county. If you wish to be placed on the permanent and/or the county mailing list, clearly specify which list(s) and send your request to TCEQ Office of the Chief Clerk at the address below.

INFORMATION AVAILABLE ONLINE. For details about the status of the application, visit the Commissioners' Integrated Database at www.tceq.texas.gov/goto/cid. Search the database using the permit number for this application, which is provided at the top of this notice.

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at **https://www14.tceq.texas.gov/epic/eComment/**, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105,

P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from BlueTriton Brands, Inc. at the address stated above or by calling Mr. Brandon Holland, Managing Utility/Facility/Water Process/Controls, Primo Brands, at 903-707-7350.

Issuance Date: July 16, 2025

Abesha Michael

From: Margaret Schell <Margaret.Schell@ApexCos.com>
Sent: Wednesday, June 18, 2025 12:15 PM
To: Abesha Michael
Subject: Re: [EXT] Application to Amend Permit No. WQ0004812000 - Notice of Deficiency Letter
Attachments: Hawkins Address labels.docx; Blue Triton Final Submittal.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

1. Updated the pdf to reflect the data in STEERS.
2. Attached the Core Data from. Does it need to be signed? I was under the impression that if they signed the STEERS submission they were signing the Core data form.
3. Updated the pdf to reflect the data in STEERS.
4. Updated the pdf to reflect the data in STEERS.
5. Corrected Map to include property 58. Included in the pdf.
6. Property 55, 20409397 is listed in the county records as Multiple land owners. There is no data as to who the land owner is. I believe that this is an easement to access the land locked properties in this area.
7. Word document attached.
8. Updated the language as follows:

   APPLICATION. BlueTriton Brands, Inc., 900 Long Ridge Road Building 2, Stamford, Connecticut

   06902, which owns a facility that manufactures, stores, bottles, and distributes spring water and

   drinking water products, has applied to the Texas Commission on Environmental Quality (TCEQ)

   to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004812000 (EPA

   I.D. No. TX0129186) to authorize an increase in the discharge of treated wastewater to a volume

   not to exceed a daily average flow of 250,000 gallons per day from 2 additional bottling lines.

   The facility is located at 3265 South Farm-to-Market Road 2869, near the city of

   Hawkins, in Wood County, Texas 75765. The discharge route is from the plant site to directly to

   Big Sandy Creek (Pending RWA confirmation). TCEQ received this application on June 24, 2025.

   The permit application will be available for viewing and copying at Wood County Courthouse,

Clerk's Office, 100 Main Street, Quitman, in Wood County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are

available electronically at the following webpage:

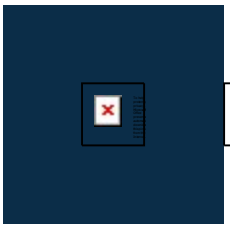
https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.191666,32.666111&level=18

Further information may also be obtained from BlueTriton Brands, Inc. at the address stated above or by calling Mr. Brandon Holland, Managing Utility/Facility/Water Process/Controls, Primo Brands, at 903-707-7350.

I believe this answer all the comments. If you have further questions please let me know.

Thanks,
Margaret



Margaret Schell
Project Manager
Apex Companies, LLC
12501 Hymeadow Dr, Ste 1G, Austin, TX 78750
Office: 512-503-8495
Mobile: 512-815-2992

We've moved! Our new address is 12501 Hymeadow Drive, Suite 1G, Austin, TX 78750. Please update your contact list. Thanks.

From: Abesha Michael <Abesha.Michael@tceq.texas.gov>
Sent: Friday, June 13, 2025 8:45 AM
To: Margaret Schell <margaret.schell@apexcos.com>
Cc: Amelia Jordan <Amelia.Jordan@apexcos.com>
Subject: [EXT] Application to Amend Permit No. WQ0004812000 - Notice of Deficiency Letter

Some people who received this message don't often get email from abesha.michael@tceq.texas.gov. Learn why this is important

CAUTION

Dear Ms. Schell:

The attached Notice of Deficiency letter sent on June 11, 2025, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by June 25, 2025..

Thank you,

Abesha H. Michael
Applications Review & Processing Team
Water Quality Division Support Section
Water Quality Division, MC 148
PO Box 13087
Austin, Texas 78711
Phone: o: 512-239-4912
Email: abesha.michael@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

ADMINISTRATIVE REPORT

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the industrial wastewater permit application.

APPLICANT NAME: Nestle Waters North America Hawkins

PERMIT NUMBER (If new, leave blank): WQ00 4812000

Indicate if each of the following items is included in your application.

	Y	N		Y	N
Administrative Report 1.0	☒	☐	Worksheet 8.0	☐	☒
Administrative Report 1.1	☒	☐	Worksheet 9.0	☐	☒
SPIF	☒	☐	Worksheet 10.0	☐	☒
Core Data Form	☒	☐	Worksheet 11.0	☐	☒
Public Involvement Plan Form	☒	☐	Worksheet 11.1	☐	☒
Plain Language Summary	☒	☐	Worksheet 11.2	☐	☒
Technical Report 1.0	☒	☐	Worksheet 11.3	☐	☒
Worksheet 1.0	☐	☒	Original USGS Map	☒	☐
Worksheet 2.0	☒	☐	Affected Landowners Map	☒	☐
Worksheet 3.0	☐	☒	Landowner Disk or Labels	☒	☐
Worksheet 3.1	☐	☒	Flow Diagram	☒	☐
Worksheet 3.2	☐	☒	Site Drawing	☒	☐
Worksheet 3.3	☐	☒	Original Photographs	☒	☐
Worksheet 4.0	☒	☐	Design Calculations	☐	☒
Worksheet 4.1	☐	☒	Solids Management Plan	☐	☒
Worksheet 5.0	☐	☒	Water Balance	☒	☐
Worksheet 6.0	☐	☒			
Worksheet 7.0	☐	☒			

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

This report is required for all applications for TPDES permits and TLAPs, except applications for oil and gas extraction operations subject to 40 CFR Part 435. Contact the Applications Review and Processing Team at 512-239-4671 with any questions about completing this report.

Applications for oil and gas extraction operations subject to 40 CFR Part 435 must use the Oil and Gas Exploration and Production Administrative Report (TCEQ Form-20893 and 20893-inst[1]).

Item 1. Application Information and Fees (Instructions, Page 26)

a. Complete each field with the requested information, if applicable.

Applicant Name: Nestle Waters North America Wood County Bottling Plant

Permit No.: WQ0004812000

EPA ID No.: TX0129186

Expiration Date: June 28, 2026

b. Check the box next to the appropriate authorization type.

☒ Industrial Wastewater (wastewater and stormwater)

☐ Industrial Stormwater (stormwater only)

c. Check the box next to the appropriate facility status.

☒ Active ☐ Inactive

d. Check the box next to the appropriate permit type.

☒ TPDES Permit ☐ TLAP ☐ TPDES with TLAP component

e. Check the box next to the appropriate application type.

☐ New

☐ Renewal with changes ☐ Renewal without changes

☒ Major amendment with renewal ☐ Major amendment without renewal

☐ Minor amendment without renewal

☐ Minor modification without renewal

f. If applying for an amendment or modification, describe the request: Request increase in wastewater discharge flow for 2 additional bottling lines. This additional production results in an increase in resulting wastewater volumes. The maximum daily flow increase to 0.33MGD from 0.271MGD. The Max Daily Avg Flow increase to 0.25MGD from 0.195 MGD.

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

[1] https://www.tceq.texas.gov/publications/search_forms.html

g. Application Fee

EPA Classification	New	Major Amend. (with or without renewal)	Renewal (with or without changes)	Minor Amend. / Minor Mod. (without renewal)
Minor facility not subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	☐ $350	☒ $350	☐ $315	☐ $150
Minor facility subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	☐ $1,250	☐ $1,250	☐ $1,215	☐ $150
Major facility	N/A [2]	☐ $2,050	☐ $2,015	☐ $450

h. Payment Information

Mailed

Check or money order No.: Click to enter text.

Check or money order amt.: Click to enter text.

Named printed on check or money order: Click to enter text.

Epay

Voucher number: Click to enter text.

Copy of voucher attachment: Click to enter text.

Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: CN601458458

Note: Locate the customer number using the TCEQ's Central Registry Customer Search[3].

b. Legal name of the entity (applicant) applying for this permit: Blue Triton Brands, Inc

Note: The owner of the facility must apply for the permit. The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.

c. Name and title of the person signing the application. (**Note:** The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)

Prefix: Mr Full Name (Last/First Name): Sam Gordon

Title: Vice President, Regional T&P Credential: Click to enter text.

d. Will the applicant have overall financial responsibility for the facility?

☒ Yes ☐ No

[2] All facilities are designated as minors until formally classified as a major by EPA.

[3] https://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch

Note: The entity with overall financial responsibility for the facility must apply as a co-applicant, if not the facility owner.

Item 3. Co-applicant Information (Instructions, Page 27)

☒ Check this box if there is no co-applicant.; otherwise, complete the below questions.

a. Legal name of the entity (co-applicant) applying for this permit: Click to enter text.

Note: The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.

b. Customer Number (if applicant is an existing customer): CNClick to enter text.

Note: Locate the customer number using the TCEQ's Central Registry Customer Search.

c. Name and title of the person signing the application. (**Note:** The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)

Prefix: Mr Full Name (Last/First Name): Click to enter text.

Title: Click to enter text. Credential: Click to enter text.

d. Will the co-applicant have overall financial responsibility for the facility?

☐ Yes ☐ No

Note: The entity with overall financial responsibility for the facility must apply as a co-applicant, if not the facility owner.

Item 4. Core Data Form (Instructions, Pages 27)

a. Complete one Core Data Form (TCEQ Form 10400) for each customer (applicant and co-applicant(s)) and include as an attachment. If the customer type selected on the Core Data Form is Individual, complete Attachment 1 of the Administrative Report. Attachment: Attachment B

Item 5. Application Contact Information (Instructions, Page 27)

Provide names of two individuals who can be contact for additional information about this application. Indicate if the individual can be contact about administrative or technical information, or both.

a. ☒ Administrative Contact . ☐ Technical Contact

Prefix: Ms. Full Name (Last/First Name): Margaret Schell

Title: Project Manager Credential: Click to enter text.

Organization Name: Apex Companies

Mailing Address: 12501 Hymeadow Dr St G City/State/Zip: Austin, TX 78750

Phone No: 512-503-8495 Email: Margaret.schell@apexcos.com

b. ☐ Administrative Contact ☒ Technical Contact

Prefix: Ms Full Name (Last/First Name): Amelia Jordan

Title: Senior Project Engineer Credential: Click to enter text.

Organization Name: Apex Companies, LLC

Mailing Address: 6666S Sheridan Rd, Ste 250 City/State/Zip: Tulsa, OK 74133

Phone No: 918-395-5904 Email: Amelia.Jordan@apexcos.com

Attachment: Click to enter text.

Item 6. Permit Contact Information (Instructions, Page 28)

Provide two names of individuals that can be contacted throughout the permit term.

a. Prefix: Mr Full Name (Last/First Name): Brandon Holland

Title: Managing Utility/Facility/Water Process/Controls Credential: Click to enter text.

Organization Name: Primo Brands

Mailing Address: 3265 S FM 2869 City/State/Zip: Hawkins, TX 75765

Phone No: 903-707-7350 Email: Brandon.Holland@primobrands.com

b. Prefix: Ms Full Name (Last/First Name): Margaret Schell

Title: Project Manager Credential: Click to enter text.

Organization Name: Apex Companies, LLC

Mailing Address: 12501 Hymeadow Dr, Ste 1G City/State/Zip: Austin, TX 78750

Phone No: 512-503-8495 Email: Margaret.schell@apexcos.com

Attachment: Click to enter text.

Item 7. Billing Contact Information (Instructions, Page 28)

The permittee is responsible for paying the annual fee. The annual fee will be assessed for permits **in effect on September 1 of each year**. The TCEQ will send a bill to the address provided in this section. The permittee is responsible for terminating the permit when it is no longer needed (form TCEQ-20029).

Provide the complete mailing address where the annual fee invoice should be mailed and the name and phone number of the permittee's representative responsible for payment of the invoice.

Prefix: Mr Full Name (Last/First Name): Brandon Holland

Title: Managing Utility/Facility/Water Process/Controls Credential: Click to enter text.

Organization Name: Primo Brands

Mailing Address: 3265 S FM 2869 City/State/Zip: Hawkins, TX 78765

Phone No: 903-707-7350 Email: brandon.holland@primobrands.com

Item 8. DMR/MER Contact Information (Instructions, Page 28)

Provide the name and mailing address of the person delegated to receive and submit DMRs or MERs. **Note:** DMR data must be submitted through the NetDMR system. An electronic reporting account can be established once the facility has obtained the permit number.

Prefix: Mr Full Name (Last/First Name): Brandon Holland

Title: Managing Utility/Facility/Water Process/Controls Credential: Click to enter text.

Organization Name: Primo Brands

Mailing Address: 3265 S FM 2869 City/State/Zip: Hawkins, TX 78765

Phone No: 903-707-7350 Email: Brandon.Holland@primobrands.com

Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

Prefix: Ms Full Name (Last/First Name): Margaret Schell

Title: Project Manager Credential: Click to enter text.

Organization Name: Apex Companies LLC

Mailing Address: 12501 Hymeadow Dr Ste 1G City/State/Zip: Austin, TX 78750

Phone No: 912-503-8495 Email: Margaret.schell@apexcos.com

b. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package (only for NORI, NAPD will be sent via regular mail)

☒ E-mail: Margaret.schell@apexcos.com

☐ Fax: Click to enter text.

☒ Regular Mail (USPS)

Mailing Address: 12501 Hymeadow Dt, Ste 1G

City/State/Zip Code: Austin, TX 78750

c. Contact in the Notice

Prefix: Mr Full Name (Last/First Name): Brandon Holland

Title: Managing Utility/Facility/Water Process/Controls Credential: Click to enter text.

Organization Name: Primo Brands

Phone No: 903-707-7350 Email: Brandon.holland@primobrands.com

d. Public Viewing Location Information

Note: If the facility or outfall is located in more than one county, provide a public viewing place for each county.

Public building name: Wood County Courthouse Location within the building: Clerk's Office

Physical Address of Building: 100 Main Street

City: Quitman County: Wood

e. Bilingual Notice Requirements

This information is required for new, major amendment, minor amendment or minor modification, and renewal applications.

This section of the application is only used to determine if alternative language notices will be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.

Call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine if an alternative language notice(s) is required.

1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?

☐ Yes ☒ No

If no, publication of an alternative language notice is not required; skip to Item 8 (Regulated Entity and Permitted Site Information.)

2. Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?

   ☐ Yes ☒ No

3. Do the students at these schools attend a bilingual education program at another location?

   ☐ Yes ☒ No

4. Would the school be required to provide a bilingual education program, but the school has waived out of this requirement under 19 TAC §89.1205(g)?

   ☐ Yes ☒ No ☐ N/A

5. If the answer is yes to question 1, 2, 3, or 4, public notices in an alternative language are required. Which language is required by the bilingual program? N/A

f. Plain Language Summary Template – Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment. Attachment: Attachment F

g. Complete one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each application for a new permit or major amendment and include as an attachment. Attachment: Attachment F

Item 10. Regulated Entity and Permitted Site Information (Instructions Page 29)

a. TCEQ issued Regulated Entity Number (RN), if available: RN12935301

Note: If your business site is part of a larger business site, a Regulated Entity Number (RN) may already be assigned for the larger site. Use the RN assigned for the larger site. Search the TCEQ's Central Registry to determine the RN or to see if the larger site may already be registered as a Regulated Entity. If the site is found, provide the assigned RN.

b. Name of project or site (the name known by the community where located): Primo Brands, Inc, Wood County Bottling Plant, Wood County Texas

c. Is the location address of the facility in the existing permit the same?

☒ Yes ☐ No ☐ N/A (new permit)

Note: If the facility is located in Bexar, Comal, Hays, Kinney, Medina, Travis, Uvalde, or Williamson County, additional information concerning protection of the Edwards Aquifer may be required.

d. Owner of treatment facility:

Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.

or Organization Name: BlueTriton Brands Inc

Mailing Address: 3265 S FM 2869 City/State/Zip: Hawkins, TX 75765

Phone No: 903-769-7750 Email: Samueljohn.gordon@primobrands.com

e. Ownership of facility: ☐ Public ☒ Private ☐ Both ☐ Federal

f. Owner of land where treatment facility is or will be: Primo Brands

Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.

or Organization Name: Primo Brands

Mailing Address: 3265 S FM 2869 City/State/Zip: Hawkins, TX 75765

Phone No: 903-769-7750 Email: Samueljohn.gordon@primobrands.com

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years (In some cases, a lease may not suffice - see instructions). Attachment: Click to enter text.

g. Owner of effluent TLAP disposal site (if applicable): Click to enter text.

Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.

or Organization Name: Click to enter text.

Mailing Address: Click to enter text. City/State/Zip: Click to enter text.

Phone No: Click to enter text. Email: Click to enter text.

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: Click to enter text.

h. Owner of sewage sludge disposal site (if applicable):

Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.

or Organization Name: Click to enter text.

Mailing Address: Click to enter text. City/State/Zip: Click to enter text.

Phone No: Click to enter text. Email: Click to enter text.

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: Click to enter text.

Item 11. TDPES Discharge/TLAP Disposal Information (Instructions, Page 31)

a. Is the facility located on or does the treated effluent cross Native American Land?

☐ Yes ☒ No

b. Attach an original full size USGS Topographic Map (or an 8.5"×11" reproduced portion for renewal or amendment applications) with all required information. Check the box next to each item below to confirm it has been included on the map.

☒ One-mile radius

☒ Applicant's property boundaries

☒ Labeled point(s) of discharge

☐ Effluent disposal site boundaries

☐ Sewage sludge disposal site

☒ Three-miles downstream information

☒ Treatment facility boundaries

☒ Highlighted discharge route(s)

☒ All wastewater ponds

☐ New and future construction

Attachment: Attachment C

c. Is the location of the sewage sludge disposal site in the existing permit accurate?

☐ Yes ☐ No or New Permit

If no, or a new application, provide an accurate location description: Click to enter text.

d. Are the point(s) of discharge in the existing permit correct?

☒ Yes ☐ No or New Permit

If no, or a new application, provide an accurate location description: Click to enter text.

e. Are the discharge route(s) in the existing permit correct?

☒ Yes ☐ No or New Permit

If no, or a new permit, provide an accurate description of the discharge route: Click to enter text.

f. City nearest the outfall(s): Hawkins

g. County in which the outfalls(s) is/are located: Wood

h. Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?

☐ Yes ☒ No

If yes, indicate by a check mark if: ☐ Authorization granted ☐ Authorization pending

For new and amendment applications, attach copies of letters that show proof of contact and provide the approval letter upon receipt. Attachment: Click to enter text.

For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Click to enter text.

i. For TLAPs, is the location of the effluent disposal site in the existing permit accurate?

☐ Yes No or New Permit ☐ Click to enter text.

If no, or a new application, provide an accurate location description: Click to enter text.

j. City nearest the disposal site: Click to enter text.

k. County in which the disposal site is located: Click to enter text.

l. For TLAPs, describe how effluent is/will be routed from the treatment facility to the disposal site: Click to enter text.

m. For TLAPs, identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Click to enter text.

Item 12. Miscellaneous Information (Instructions, Page 33)

a. Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?

☐ Yes ☒ No

If yes, list each person: Click to enter text.

b. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account no.: Click to enter text.

Total amount due: Click to enter text.

c. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Enforcement order no.: Click to enter text.

Amount due: Click to enter text.

Item 13. Signature Page (Instructions, Page 33)

Permit No: WQ0004812000

Applicant Name: Primo Brands

Certification: I, Sam Gordon, 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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code §305.44 to sign and submit this document and can provide documentation in proof of such authorization upon request.

Signatory name (typed or printed): Sam Gordon

Signatory title: Vice President, Regional T&P

Signature: _____ Date: _____

(Use blue ink)

Subscribed and Sworn to before me by the said _____

on this _____ day of _____, 20_____.

My commission expires on the _____ day of _____, 20_____.

_____

Notary Public [SEAL]

_____

County, Texas

Note: *If co-applicants are necessary, each entity must submit an original, separate signature page.*

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

Item 1. Affected Landowner Information (Instructions, Page 35)

a. Attach a landowner map or drawing, with scale, as applicable. Check the box next to each item to confirm it has been provided.

☒ The applicant's property boundaries.

☒ The facility site boundaries within the applicant's property boundaries.

☐ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone.

☒ The property boundaries of all landowners surrounding the applicant's property. (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)

☒ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream.

☒ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge.

☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides.

☐ The boundaries of the effluent disposal site (e.g., irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property.

☐ The property boundaries of all landowners surrounding the applicant's property boundaries where the effluent disposal site is located.

☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners within one-quarter mile of the applicant's property boundaries where the sewage sludge land application site is located.

☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (e.g., sludge surface disposal site or sludge monofil) is located.

Attachment: Attachment B

b. Check the box next to the format of the landowners list:

☐ Readable/Writeable CD ☒ Four sets of labels

Attachment: Attachment B

d. Provide the source of the landowners' names and mailing addresses: Wood County Appraisal District

e. As required by Texas Water Code § 5.115, is any permanent school fund land affected by this application?

☐ Yes ☒ No

If yes, provide the location and foreseeable impacts and effects this application has on the land(s): Click to enter text.

Item 2. Original Photographs (Instructions, Page 37)

Provide original ground level photographs. Check the box next to each of the following items to indicate it is included.

☐ At least one original photograph of the new or expanded treatment unit location.

☒ At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.

☐ At least one photograph of the existing/proposed effluent disposal site.

☒ A plot plan or map showing the location and direction of each photograph.

Attachment: Attachment C

INDUSTRIAL WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

This form applies to TPDES permit applications only. Complete and attach the Supplemental Permit information Form (SPIF) (TCEQ Form 20971).

Attachment: SPIF Form

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

Use this form to submit the Application Fee, if mailing the payment. (Instructions, Page 36-37)

- Complete items 1 through 5 below.
- Staple the check or money order in the space provided at the bottom of this document.
- Do not mail this form with the application form.
- Do not mail this form to the same address as the application.
- Do not submit a copy of the application with this form as it could cause duplicate permit entries.

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
P.O. Box 13088
Austin, Texas 78711-3088

BY OVERNIGHT/EXPRESS MAIL

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
12100 Park 35 Circle
Austin, Texas 78753

Fee Code: WQP **Permit No:** WQ0004812000

1. Check or Money Order Number: Click to enter text.
2. Check or Money Order Amount: Click to enter text.
3. Date of Check or Money Order: Click to enter text.
4. Name on Check or Money Order: Click to enter text.
5. APPLICATION INFORMATION

   Name of Project or Site: Primo Brands

   Physical Address of Project or Site: Click to enter text.

   If the check is for more than one application, attach a list which includes the name of each Project or Site (RE) and Physical Address, exactly as provided on the application.
   Attachment: Click to enter text.

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Item 1. Individual information (Instructions, Page 38)

Complete this attachment if the facility applicant or co-applicant is an individual. Make additional copies of this attachment if both are individuals.

Prefix (Mr., Ms., or Miss): Click to enter text.

Full legal name (first, middle, and last): Click to enter text.

Driver's License or State Identification Number: Click to enter text.

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

City, State, and Zip Code: Click to enter text.

Phone No.: Click to enter text.

Fax No.: Click to enter text.

E-mail Address: Click to enter text.

CN: Click to enter text.

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

Below is a list of common deficiencies found during the administrative review of industrial wastewater permit applications. To ensure the timely processing of this application, please review the items below and indicate each item is complete and in accordance applicable rules at 30 TAC Chapters 21, 281, and 305 by checking the box next to the item. If an item is not required this application, indicate by checking N/A where appropriate. Please do not submit the application until all items below are addressed.

☒ Core Data Form (TCEQ Form No. 10400)
(Required for all applications types. Must be completed in its entirety and signed. Note: Form may be signed by applicant representative.)

☒ Correct and Current Industrial Wastewater Permit Application Forms
(TCEQ Form Nos. 10055 and 10411. Version dated 5/10/2019 or later.)

☐ Water Quality Permit Payment Submittal Form (Page 14)
(Original payment sent to TCEQ Revenue Section. See instructions for mailing address.)

☒ 7.5 Minute USGS Quadrangle Topographic Map Attached
(Full-size map if seeking "New" permit. 8 ½ x 11 acceptable for Renewals and Amendments.)

☒ N/A ☐ Current/Non-Expired, Executed Lease Agreement or Easement Attached

☐ N/A ☒ Landowners Map
(See instructions for landowner requirements.)

Things to Know:

- All the items shown on the map must be labeled.
- The applicant's complete property boundaries must be delineated which includes boundaries of contiguous property owned by the applicant.
- The applicant cannot be its own adjacent landowner. You must identify the landowners immediately adjacent to their property, regardless of how far they are from the actual facility.
- If the applicant's property is adjacent to a road, creek, or stream, the landowners on the opposite side must be identified. Although the properties are not adjacent to applicant's property boundary, they are considered potentially affected landowners. If the adjacent road is a divided highway as identified on the USGS topographic map, the applicant does not have to identify the landowners on the opposite side of the highway.

☐ N/A ☒ Landowners Cross Reference List
(See instructions for landowner requirements.)

☐ N/A ☒ Landowners Labels or CD-RW attached
(See instructions for landowner requirements.)

☒ Original signature per 30 TAC § 305.44 – Blue Ink Preferred
(If signature page is not signed by an elected official or principle executive officer, a copy of signature authority/delegation letter must be attached.)

☒ Plain Language Summary

ATTACHMENT A

ePAYMENT VOUCHER

Outlook

[EXT] TCEQ ePay Receipt for 582EA000670901 (Payment Only)

From steers@tceq.texas.gov <steers@tceq.texas.gov>
Date Wed 6/4/2025 8:48 AM
To Margaret Schell <margaret.schell@apexcos.com>

CAUTION

This is an automated message from the TCEQ ePay system. Please do not reply.

This is a receipt for FEE PAYMENT ONLY. If you paid for an ePermits application, your STEERS ePermits application is NOT complete. Please return to STEERS ePermits to submit your application to TCEQ.

Trace Number: 582EA000670901
Date: 06/04/2025 08:47 AM
Payment Method: CC - Authorization 0000018670
TCEQ Amount: $350.00
Texas.gov Fee: $8.13
Texas.gov Price: $358.13*

* This service is provided by Texas.gov, the official website of Texas. The price of this service includes funds that support the ongoing operations and enhancements of Texas.gov, which is provided by a third party in partnership with the State.

Actor: MARGARET L SCHELL
Email: margaret.schell@apexcos.com

Payment Contact: KELLY WELLS
Phone: 469-365-1104
Company: APEX COMPANIES
Address: 2101 GAITHER RD SUITE 500, ROCKVILLE, MD 20850

Fees Paid:
Fee Description AR Number Amount
WW PERMIT - MINOR FACILITY NOT SUBJECT TO 40 CFR 400-471 - MAJOR AMENDMENT (REF 787418) $300.00
30 TAC 305.53B WQ NOTIFICATION FEE $50.00

TCEQ Amount: $350.00

==========

Voucher: 769437
Trace Number: 582EA000670901
Date: 06/04/2025 08:47 AM
Payment Method: CC - Authorization 0000018670
Voucher Amount: $300.00
Fee Paid: WW PERMIT - MINOR FACILITY NOT SUBJECT TO 40 CFR 400-471 - MAJOR AMENDMENT (REF 787418)
RN Number: RN102935301
Site Name: NESTLE WATERS NORTH AMERICA HAWKINS
Site Location: 1548 COUNTY ROAD 3540 HAWKINS TX 75785 APPROX 5 MI NE OF HAWKINS IN WOOD COUNTY
CN Number: CN601458458
Customer Name: BLUETRITON BRANDS, INC.
State Franchise Tax ID: 19430272377
Customer Address: 900 LONG RIDGE RD BLDG 2, STAMFORD, CT 06902
Billing Name: BRANDON HOLLAND
Billing Address: 3265 S FM 2869, HAWKINS, TX 75765
Program Area ID: WQ0004812000
STEERS Program: EPR_WQIP
STEERS Reference: 787418

Voucher: 769438
Trace Number: 582EA000670901
Date: 06/04/2025 08:47 AM
Payment Method: CC - Authorization 0000018670
Voucher Amount: $50.00
Fee Paid: 30 TAC 305.53B WQ NOTIFICATION FEE

==========

To print out a copy of the receipt and vouchers for this transaction
either click on or copy and paste the following url into your browser:
https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww3.tceq.texas.gov%2Fepay%2Findex.cfm%3Ffuseaction%3Dcor.search%26trace_num_txt%3D582EA000670901&data=05%7C02%7Cmargaret.schell%40apexcos.com%7C71debdefe4064133b10608dda36e73c1%7C75fa43a668854a3880d861c471bae2dd%7C1%7C0%7C638846416983472794%7CUnknown%7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsIlYiOiIwLjAuMDAwMCIsIlAiOiJXaW4zMiIsIkFOIjoiTWFpbCIsIldUIjoyfQ%3D%3D%7C0%7C%7C%7C&sdata=8Tn8VbxIEgRrnojKliuDDCCR4F5sDjDYz8Om%2BuAItOc%3D&reserved=0.

This e-mail transmission and any attachments are believed to have been sent free of any virus or other defect that might affect any computer system into which it is received and opened. It is, however, the recipient's responsibility to ensure that the e-mail transmission and any attachments are virus free, and the sender accepts no responsibility for any damage that may in any way arise from their use.
This email originated from outside of the organization. Do not click links or open attachments unless you

recognize the sender and know the content is safe.

ATTACHMENT B

CORE DATA FORM

TCEQ Use Only

TCEQ Core Data Form

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)

☐ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)

☒ Renewal (*Core Data Form should be submitted with the renewal form*) ☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN **601458458**		RN **102935301**

SECTION II: Customer Information

4. General Customer Information | 5. Effective Date for Customer Information Updates (mm/dd/yyyy)

☐ New Customer ☒ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)* — *If new Customer, enter previous Customer below:*

Primo Brands

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
0009869406	19430272377	94-30272377	10-133-6568

11. Type of Customer: ☒ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees
☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☒ 501 and higher

13. Independently Owned and Operated?
☐ Yes ☒ No

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☐ Operator ☒ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address:

900 Longridge Road Building #2

City	Stamford	State	CT	ZIP	06902	ZIP + 4	

16. Country Mailing Information *(if outside USA)*

17. E-Mail Address *(if applicable)*
samueljohn.gordon@primobrands.com

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(903) 769-7750		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected below this form should be accompanied by a permit application)*

☐ New Regulated Entity ☒ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

Primo Brands

23. Street Address of the Regulated Entity: *(No PO Boxes)*	3265 South FM 2869							
	City	Hawkins	State	TX	ZIP	75765	ZIP + 4	
24. County	Wood							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:					
26. Nearest City			State	Nearest ZIP Code	
Hawkins			TX	75765	
27. Latitude (N) In Decimal:	32.665981		28. Longitude (W) In Decimal:	-95.191554	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)	31. Primary NAICS Code (5 or 6 digits)	32. Secondary NAICS Code (5 or 6 digits)
2086	5149	312112	42249

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

Bottled spring water and drinking water manufacturing

34. Mailing Address:	3265 S FM 2869							
	City	Hawkins	State	TX	ZIP	75765	ZIP + 4	
35. E-Mail Address:	samueljohn.gordon@primobrands.com							

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(903) 769-7750		( ) -

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Waste Water	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0004812000			

SECTION IV: Preparer Information

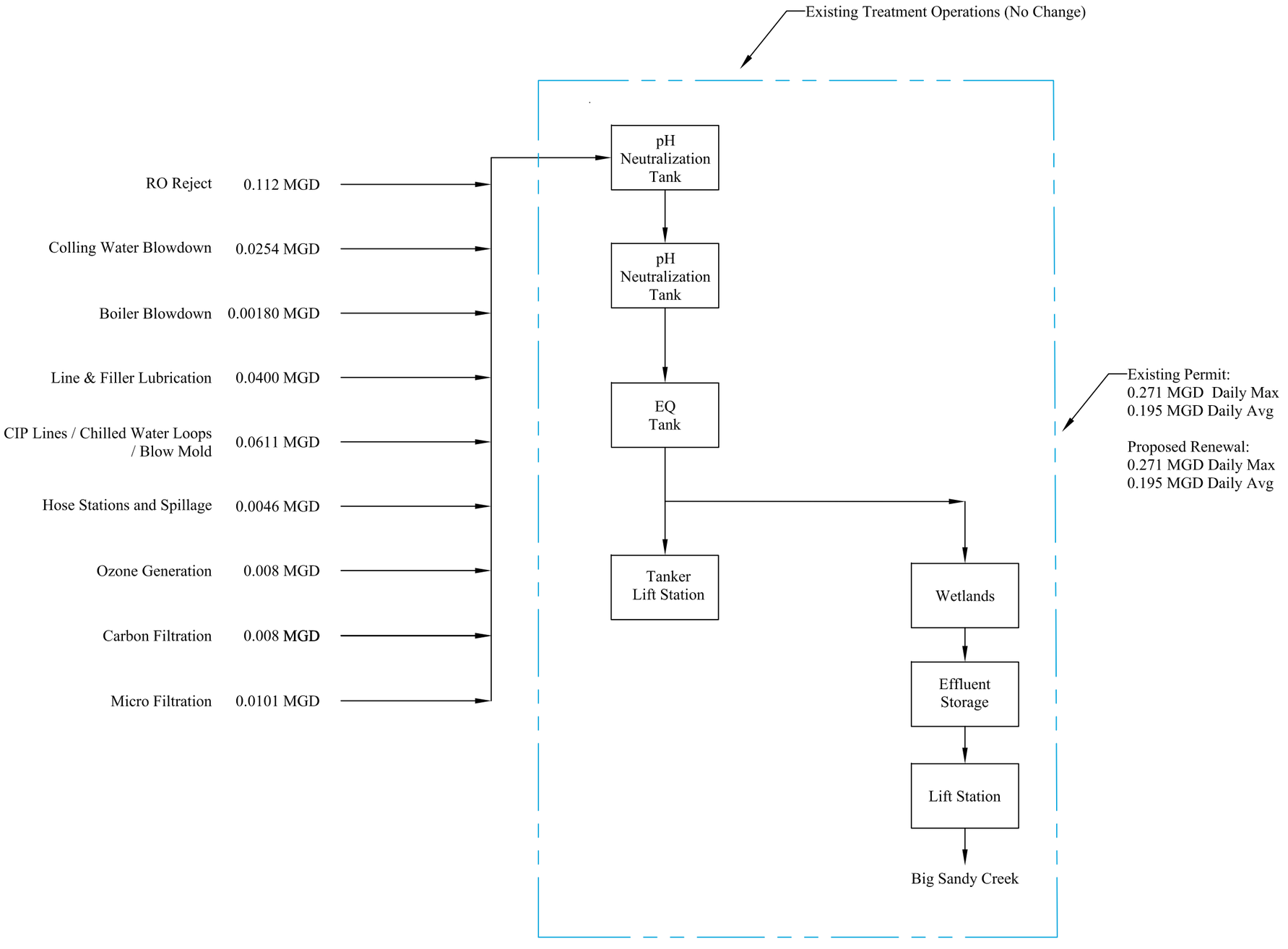
40. Name:	Margaret Schell	41. Title:	Project Manager

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 503-8495		(512) 250-2940	margaret.schell@apexcos.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Primo Brands	Job Title:	Vice President, Regional T&P
Name *(In Print)*:	Sam Gordon	Phone:	(903) 769- 7750
Signature:		Date:	



NOTES

Apex Companies, LLC
12400 Ford Road, Suite 401
Dallas, Texas 75234
Phone: (469) 365-1100 • Fax: (469) 365-1199
PG License No. 50296 PE License No. F14073
www.apexcos.com

WASTEWATER SOURCE DIAGRAM

TPDES Permit Renewal Application
Primo Brands Inc
Wood County Bottling Plant
Wood County, Texas

DESIGNED BY:	DETAILED BY:	CHECKED BY:
Apex-TITAN	RW	MM
FILE NAME: 06-176\TPDES Renewal...\Figures		
DATE: May 2025	PROJECT NO.: 06-176	PLOT SCALE: N.T.S.
DRAWING NO.: ---	REVISION: 0	FIGURE: --

MR AND MRS THEODORE HOBMA

140 PR 3801

BIG SANDY TX 75755

BERT DAVIS

P.O. BOX 1432

HAWKINS TX 75765

MICHAEL DAVIS

7212 WINDSWEPT TRL

COLLEYVILLE TX 76034

MR AND MRS VERNON MOORE

2120 CREEKSIDE CIRCLE SOUTH

IRVING TX 78063

MR AND MRS LAWRENCE MOONEY

PO BOX 641

HAWKINS TX 75765

LOVIS RICHEY

4004 FAIRMONT COURT

BEDFORD TX 76021

DEBORAH GRIFFIN

1731 CR 3520

HAWKINS TX 75765

CHRISTIE GEZELLA

532 BRONZEWOOD LN

FORT WORTH TX 76131

MR AND MRS ROYAL CAMPMAN

1100 RIDGE ROAD WEST

ROCKWALL TX 75087

DAREL BELZ

718 BOWIE ST

FORNEY TX 75126

SANDRA MCLAIN

2915 MAYDELLE LANE

FARMERS BRANCH TX 75234

MR AND MRS MICHAEL MAXSON

110 PR 7543

HAWKINS TX 75765

MR AND MRS JOEY MCGEE

302 RCR 3319

EMORY TX 75440

LAGATHA KAY CLEMONS

402 LAZY SPRING

RED OAK TX 75154

VICKIE FULFER

PO BOX 1486

HAWKINS TX 75765

SARAH TODD

PO BOX 24

HAWKINS TX 75765

RAYMOND TODD

PO BOX 24

HAWKINS TX 75765

CARLA AND KELLY JOHNSON AND BRIANNA WILLIAMS

6688 JOHN HICKMAN PARKWAY APT 521

FRISCO TX 75034

MR AND MRS PHILLIP KIRKLIN

973 CR 3540

HAWKINS TX 75765

RICHARD AND CAROL DAVIS

1107 CR 3540

HAWKINS TX 75765

DARRELL W. HOLLEY

326 DEER PATH LANE

HOLLY LAKE RANCH TX 75765

CARRIE ELLIS DIESE

1143 CR 3540

HAWKINS TX 75765

JOHN WEICK

1199 CR 3540

HAWKINS TX 75765

JAVIER DE LA TORRE

1700 BOATHOUSE RD

EDMOND OK 73034

PROXIMA RERRAE LLC

PO BOX 489

HAWKINS TX 75765

CCHB PROPERTIES LLC

PO BOX 489

HAWKINS TX 75765

ANTOINE CAIN

3230 S FM 2869

HAWKINS, TX 75765

SEAN AND KATIE DEVANY

17326 OUTLAW RIDGE RD

HOUSTON TX 77095

ALVARO CORRADA DEL RIO
BISHOP OF THE CATHOLIC DIOCESE OF TYLER
1612 S FM 2869
HOLLY LAKE RANCH TX 75765

CLIFFORD AND PATRICIA BERGEN

170 CR 3542

HAWKINS TX 75765

RAY AND REGINA TRAMMEL
190 CR 3542
HAWKINS TX 75765

ANDY AND SHERRY SPODNICK
220 CR 3542
HAWKINS TX 75765

CINDA OWEN
248 CR 3542
HAWKINS TX 75765

JESSE AND SANDI PURSLOW
463 PR 6624
MINEOLA TX 75773

STEVEN SMITH
270 CR 3542
HAWKINS TX 75765

TIMOTHY AND CONNIE GENTRY
280 CR 3542
HAWKINS TX 75765

GUY SIMSER
290 CR 3542
HAWKINS TX 75765

KENNETH AND TRACY THOMAS
310 CR 3542
HAWKINS TX 75765

MARK MERRITT
314 CR 3542
HAWKINS TX 75765

DAVID AND ANGELA HEFFNER
1561 CR 3540
HAWKINS TX 75765

CHURCH HOLLY BROOK BAPTIST
3219 S FM 2869
HAWKINS TX 75765

MMGL TEXAS II LLC
13727 NOEL RD STE 1200
DALLAS TX 75230

LEONARD AND KATHRYN BOEHM
1743 CR 3540
HAWKINS TX 75765

BOX 379 PROPERTIES LLC
PO BOX 318
HAWKINS TX 75765

BILLY ROBERTSON
1995 CR 3540
HAWKINS TX 75765

MORTON AND SHARON CLARY
2030 CR 3540
HAWKINS TX 75765

WILLIAM BEGGS
222 CR 3540
HAWKINS TX 75765

DONALD R WHISENHUNT
2340 CR 3540
HAWKINS TX 75765

LAPA CHAMPION LLC
3196 CR 3540
HAWKINS TX 75765

KEVIN AND LISA MARTIN
110 PEBBLE COVE
HOLLY LAKE RANCH TX 75765

DAVID MILLER AND CYNTHIA HOUSLEY
1470 HOLLY TRAIL EAST
HOLLY LAKE RANCH TX 75765

WOOD COUNTY TRUSTEE
1517 W FRONT ST STE 202
TYLER TX 75702

BAHRASSA F S AND P K SHROFF LIVING
3404 FURLONG DR EAST
FLOWER MOUND TX 75022

ALTON AND BRENDA BYRD
142 NICKEY LN
RIPLEY MS 38663

BETSY AND WILLIAM CHAPPELL
1560 HOLLY TRAIL EAST
HOLLY LAKE RANCH TX 75765

JAMES AND SANDRA PYLANT
1630 HOLLY TRAIL EAST
HOLLY LAKE RANCH TX 75765

JULIE AND JAMES BRIDGES
1658 HOLLY TRAIL EAST
HOLLY LAKE RANCH TX 75765

JAMES AND BECKIE CLARK
1668 HOLLY TRAIL EAST
HOLLY LAKE RANCH TX 75765

PHAM HAN ST VIR CHI HUYNH
6224 S SH 37
MINEOLA TX 75773

PINEYWOOD BUILDERS INC
3795 S FM 2869
HAWKINS TX 75765

DONALD RAY LEDFORD

284 BRAZOS BEND

HOLLY LAKE RANCH TX 75765

WOOD COUNTY TTEE

PO BOX 1919

QUITMAN TX 75783

RHONDA ROLEN

401 E SOUTH ST

LINDALE TX 75771

KATHRYN AND RONALD GOODMAN

1740 HOLLY TRAIL EAST

HOLLY LAKE RANCH TX 75765

ROBIN AND BERNADETTE TRANHOLT

1762 HOLLY TRAIL EAST

HOLLY LAKE RANCH TX 75765

DEBBIE AND NORMAN HART

1806 HOLLY TRAIL EAST

HOLLY LAKE RANCH TX 75765

RUBEN AND AMY PELINA

960 GROSSMONT AVE

EL CAJON CA 92020

HOLLY LAKE RANK ASSOCIATION

220 HOLLY LODGE CIRCLE

HOLLY LAKE RANCH TX 75765

JUAN TORRES

921 PARK EAST CIRCLE

FARLAND TX 75043

ALBERT AND EDNA CRUZ

300 E CAMILLIA AVE APT #C320

MCALLEN TX 78501

M C CABRERA JR

1540 LIMELIGHT CT

COLORADO SPRINGS CO 80906

ROBERT AND JANICE PLACE

180 SHIPROCK PATH

HOLLY LAKE RANCH TX 75765

ANITA HOOD

184 SHIPROCK PATH

HOLLY LAKE RANCH TX 75765

DAVID AND BELINDA DAVIS

176 SHASTA PATH

HOLLY LAKE RANCH TX 75765

WILLIAM AND CONNIE OATES

184 SHASTA PATH

HOLLY LAKE RANCH TX 75765

PETER TOMONTO

165 SHASTA PATH

HOLLY LAKE RANCH TX 75765

CHANEY CALDWELL AND JOHN WARD

200 SUNDANCE PATH

HOLLY LAKE RANCH TX 75765

ROBERT VELA

1308 ROYSTER RD

FORT WORTH TX 76134

DEREK AND REBECCA THOMPSON

141 SUNDANCE PATH

HOLLY LAKE RANCH TX 75765

ASCENSION RESORTS LTD ORANGE LAKE RESORTS
ATTN FINANCIAL SERVICE GROUP
9271 S JOHN YOUNG PKWY
ORLANDO FL 32819

CORBIN AND NKIRU QUISENBERRY

2910 ALTO DRM

SACHSE TX 75048

LOUIS AND RETHA JONES

4323 HONDURAS ST

LOS ANGELES CA 90011

JAMES WILLIAM PARKER

788 AN CR 2109

ELKHART TX 75839

WOOD COUNTY TRUSTEE

PO BOX 1919

QUITMAN TX 75783

ALBERT AND SHIRLEY PARSONS

434 CIMARRON TRAIL

HAWKINS TX 75765

BROOKS A JR

577 FM 555

GILMER TX 75644

KIMBERLY AND KEVIN MCGARITY

474 CIMARRON TRAIL

HOLLY LAKE RANCH TX 75765

DEMARCKS KING

3752 COTTAGE PARK CIRCLE

TYLER TX 75707

TOMMY AND NATALIE DIXON

556 CIMARRON TRAIL

HOLLY LAKE RANCH TX 75765

RENE AND KATHRYN OUBRE

16345 ANTIETAM AVE

BATON ROUGE LA 70817

MARIO VILLALOBOS

6123 PLANTATION DR

TYLER TX 75703

DANIEL AND ANGELA BARNCORD

618 CIMARRON TRAIL

HAWKINS TX 75765

PFUND JAMES KEMER TRUST

628 CIMARRON TRAIL

HOLLY LAKE RANCH TX 75765

FRANK AND ELISABETH VAN ALLEN

18576 FM 740

FORNEY TX 75126

DANIEL LANEY CHRISTOPHER

684 CIMARRON TRAIL

HOLLY LAKE RANCH TX 75765

GARY AND PATTY STEIN

120 WILDWOOD TRAIL

HOLLY LAKE RANCH TX 75765

WALTER AND GLENDA WHITE

126 WILDWOOD TRAIL

HOLLY LAKE RANCH TX 75765

SARAH CRONE

138 WILDWOOD TRAIL

HOLLY LAKE RANCH TX 75765

MINA AND RICHARD MCCONNIEL

184 WILDWOOD TRAIL

HOLLY LAKE RANCH TX 75765

BETSY AND WILLIAM CHAPPELL

2868 CR 3550

HOLLY LAKE RANCH TX 75765

ALBERT AND PATRICIA BERGH

3300 CR 3550

HOLLY LAKE RANCH TX 75765

JAMES WADE

2193 S MIMOSA RD

BIG SANDY TX 75755

RICKEY SHIPP

4441 FM 1002 S.

BIG SANDY TX 75755

AUDIS AND DEBORAH BYRD

834 WHITE DOGWOOD RD

BIG SANDY TX 75755

JAMES AND SUSAN BYRD, CO TRUSTEES

110 ROLLING SPRING DRIVE

ALEDO TX 76008

JOE & JUDY BYRD PROPERTIES LLC

110 ROLLING SPRING DRIVE

ALEDO TX 76008

TERRY HARTMAN

3617 WANDERING TRAIL

PLANO TX 78075

RENE AND KATHRYN OUBRE

16345 ANTIETAM AVE

BATON ROUGE LA 70817

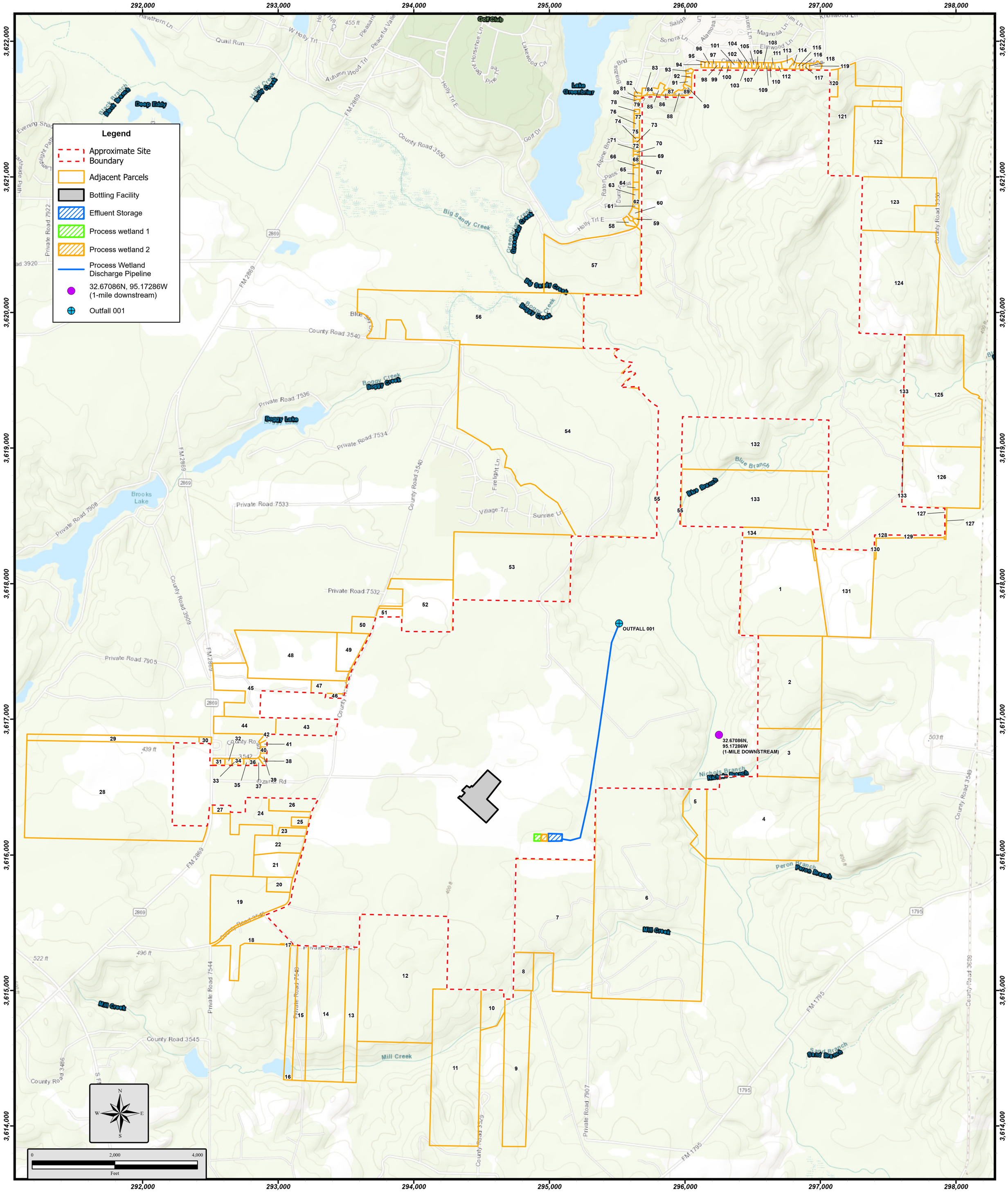
ID	PROP ID	Landowner Name	Landowner Address
1	24483	Theodore & Engeline Hobma	140 PR 3801, BIG SANDY, TX 75755
2	20288	Theodore & Engeline Hobma	140 PR 3801, BIG SANDY, TX 75755
3	20289	Bert Davis	P.O. BOX 1432, HAWKINS, TX 75765
4	11536	Bert Davis	P.O. BOX 1432, HAWKINS, TX 75765
5	81843	David Michael L	7212 Windswept Trl, Colleyville TX 76034
6	16912	Vernon & Betty L Moore	2120 Creekside Circle South, Irving TX 78063
7	22180	Lawrence & Katy Mooney	PO Box 641, Hawkins, TX 75765
8	52285	Richey Lovis H	4004 Fairmont Court, Bedford, TX 76021
9	20207	Griffin Deborah Lynn Waller	1731 CR 3520, Hawkins, TX 75765
10	50261	Gezella Christie Renee	532 Bronzewood Ln, Fort Worth, TX 76131
11	20206	Campman Layne Royal & Cindy Jo	1100 Ridge Road West, Rockwall, TX 75087
12	18653	Belz Darel Ray	718 Bowie St, Forney, TX 75126
13	14618	McLain Sandra	2915 Maydelle Lane, Farmers Branch, TX 75234
14	14620	Maxson Michael D & Vickie E	110 PR 7543, Hawkins, TX 75765
15	14619	McGee Joey William & Jessica Renee	302 RCR 3319, Emory, YTX 75440
16	75349	Clemons Lagatha Kay	402 Lazy Spring, Red Oak, TX 75154
17	86012	Fulfer Vickie	PO Box 1486, Hawkins, TX 75765
18	52955	Todd Sarah	PO Box 24, Hawkins, TX 75765
19	14596	Todd Raymond L	PO Box 24, Hawkins, TX 75765
20	14597	Johnson Carla R & Kelly Johnson & Brianna Williams	6688 John Hickman Parkway Apt 521, Frisco, TX 75034
21	14592	Kirklin Phillip & Brittany D	973 CR 3540, Hawkins, TX 75765
22	114935	Richard Lane & Carol Webb Davis	1107 CR 3540, Hawkins, TX 75765
23	75368	Darrell W. Holley	326 Deer Path Lane, Holly Lake Ranch, TX 75765
24	85775	Darrell W. Holley	326 Deer Path Lane, Holly Lake Ranch, TX 75765
25	14591	Carrie Ellis Diese	1143 CR 3540, Hawkins, TX 75765
26	80963	John Weick	1199 CR 3540, Hawkins, TX 75765
27	74906	De La Torre Javier	1700 Boathouse Rd, Edmond, OK 73034
28	115149	Proxima Rerrae LLC A Texas LLC	PO BOX 489, 2521 South FM 2869, Hawkins, TX 75765
29	84530	CCHB Properties LLC	PO Box 489, Hawkins, TX 75765
30	78568	Cain Antoine P	3230 S FM 2869m Hawkins, TX 75765
31	75693	Devany Sean & Katie	17326, Outlaw Ridge Rd, Houston, TX 77095

ID	PROP ID	Landowner Name	Landowner Address
32	74544	Alvaro Corrada Del Rio	Bishop of the Catholic Diocese of Tyler, 1612 S FM 2869, Holly Lake Ranch, TX 75765
33	74545	Bergen Clifford & Patricia	170 CR 3542, Hawkins, TX 75765
34	74546	Trammell Tony Ray & Regina L Trustees of the Trammel Family Living	190 CR 3542, Hawkins, TX 75765
35	74547	Andy W & Sherry J Spodnick	220 CR 3542, Hawkins, TX 75765
36	74548	Cinda Owen	248 CR 3542, Hawkins, TX 75765
37	74549	Jesse & Sandi M Purslow	463 PR 6624, Mineola, TX, 75773
38	74550	Smith Steven Wayne	270 CR 3542, Hawkins, TX 75765
39	74551	Gentry Timothy W & Connie F	280 CR 3542, Hawkins, TX 75765
40	74552	Simser Guy	290 CR 3542, Hawkins, TX 75765
41	74553	Thomas Kenneth & Tracy	310 CR 3542, Hawkins, TX 75765
42	74554	Merritt Mark C	314 CR 3542, Hawkins, TX 75765
43	76742	David & Angela Heffner	1561 CR 3540, Hawkins, TX 75765
44	54196	Church Holly Brook Baptist	3219 S FM 2869, Hawkins, TX 75765
45	14659	MMGL Texas II LLC	13727 Noel Rd Ste 1200, Dallas, TX 75230
46	14671	Boehm Leonard J & Kathryn B	1743 CR 3540, Hawkins, TX 75765
47	14660	Boehm Leonard J & Kathryn B	1743 CR 3540, Hawkins, TX 75765
48	14667	Box 379 Properties LLC	PO Box 318, Hawkins, TX 75765
49	65366	Box 379 Properties LLC	PO Box 318, Hawkins, TX 75765
50	16681	Robertson Billy	1995 Cr 3540, Hawkins, TX 75765
51	78021	Clary Morton B II & Sharon K	2030 CR 3540, Hawkins, TX 75765
52	16695	William W Beggs	222 CR 3540, Hawkins, TX 75765
53	14099	Donald R Whisenhunt	2340 CR 3540, Hawkins, TX 75765
54	22177	Lapa Champion LLC	3196 CR 3540, Hawkins, TX 75765
55	20409397	**Multiple Landowners (Nestle has access)**	
56	79465	Lapa Champion LLC	3196 CR 3540, Hawkins, TX 75765
57	70068	Lapa Champion LLC	3196 CR 3540, Hawkins, TX 75765
58	31606	Martin Kevin & Lisa	110 Pebble Cove, Holly Lake Ranch, TX 75765
59	31605	Martin Kevin & Lisa	110 Pebble Cove, Holly Lake Ranch, TX 75765
60	31603	Miller David T & Cynthia L Housley	1470 Holly Trail East, Holly Lake Ranch, TX 75765
61	31601	Wood County Trustee	1517 W Front St Ste 202, Tyler, TX 75702
62	31600	Bahrassa F S & P K Shroff Living	3404 Furlong Dr East, Flower Mound, TX 75022
63	31597	Byrd Alton W & Brenda J	142 Nickey Ln, Ripley, MS 38663
64	31595	Chappell Betsy & William	1560 Holly Trail East, Holly Lake Ranch, TX 75765

ID	PROP ID	Landowner Name	Landowner Address
65	31592	Pylant James R & Sandra M	1630 Holly Trail East, Holly Lake Ranch, TX 75765
66	31590	Bridges Julie & James Brian Pylant	1658 Holly Trail East, Holly Lake Ranch, TX 75765
67	31589	Clark James D & Beckie K	1668 Holly Trail East, Holly Lake Ranch, TX 75765
68	31588	James Clark	1668 Holly Trail East, Holly Lake Ranch, TX 75765
69	31857	Pham Han St Vir Chi Huynh	6224 S SH 37, Mineola, TX 75773
70	31586	Pineywood Builders Inc	3795 S FM 2869, Hawkins, TX 75765
71	31585	Ledford Donald Ray	284 Brazos Bend, Holly Lake Ranch, TX 75765
72	31584	Wood County TTEE	PO Box 1919, Quitman, TX 75783
73	31583	Rolen Rhonda	401 E South St, Lindale, TX 75771
74	31582	Goodman Kathryn & Ronald	1740 Holly Trail East, Holly Lake Ranch, TX 75765
75	31581	Tranholt Robin Lee & Bernadette	1762 Holly Trail East, Holly Lake Ranch, TX 75765
76	31577	Hart Debbie & Norman Hart	1806 Holly Trail East, Holly Lake Ranch, TX 75765
77	31576	Pelina Ruben & Amy V	960 Grossmont Ave, El Cajon, Ca 92020
78	31575	Holly Lake Rank Association	220 Holly Lodge Circle, Holly Lake Ranch, TX 75765
79	31533	Torres Juan A	921 Park East Circle, Farland, TX 75043
80	31532	Cruz Albert & Edna Carina Limon	300 E Camillia Ave Apt #C320, McAllen, TX 78501
81	31531	Cruz Albert & Edna Carina Limon	300 E Camillia Ave Apt #C320, McAllen, TX 78501
82	31530	Cabrera M C Jr	1540 Limelight Ct, Colorado Springs, CO 80906
83	31516	Place Robert L Etuc Janice L	180 Shiprock Path, Holly Lake Ranch, TX 75765
84	31515	Hood Anita	184 Shiprock Path, Holly Lake Ranch, TX 75765
85	31503	David James Michael & Belinda Diane Davis	176 Shasta Path, Holly Lake Ranch, TX 75765
86	31502	Oates William E & Connie G	184 Shasta Path, Holly Lake Ranch, TX 75765
87	31501	Tomonto Peter M Et Al	165 Shasta Path, Holly Lake Ranch, TX 75765
88	31488	Ward Chaney	200 Sundance Path, Holly Lake Ranch, TX 75765
89	31487	Vela Robert	1308 Royster Rd, Fort Worth, TX 76134

ID	PROP ID	Landowner Name	Landowner Address
90	31486	Ward Chaney D Caldwell & John T	200 Sundance Path, Holly Lake Ranch, TX 75765
91	31484	Ward Chaney D Caldwell & John T	200 Sundance Path, Holly Lake Ranch, TX 75765
92	31483	Thompson Derek & Rebecca	141 Sundance Path, Holly Lake Ranch, TX 75765
93	31482	Thompson Derek & Rebecca	141 Sundance Path, Holly Lake Ranch, TX 75765
94	31352	Ascension Resorts Ltd	Orange Lake Resorts, Attn Financial Service Group, 9271 S John Young Ikwy, Orlandom FL 32819
95	31351	Quisenberry Corbin & Nkiru	2910 Alto Drm Sachse, TX 75048
96	31350	Jones Louis N & Retha N	4323 Honduras St, Los Angeles, CA 90011
97	31349	Parker James William	788 AN CR 2109, Elkhart, TX 75839
98	31348	Wood County Trustee	PO Box 1919, Quitman, TX 75783
99	31347	Parsons Albert E Etux Shirley A	434 Cimarron Trail, Hawkins, TX 75765
100	31345	Brooks A Jr	577 FM 555 Gilmer, TX 75644
101	31344	McGarity Kimberly & Kevin	474 Cimarron Trail, Holly Lake Ranch, TX 75765
102	30614	King Demarcks	3752 Cottage Park Circle, Tyler, TX 75707
103	30615	Dixon Tommy A & Natalie	556 Cimarron Trail, Holly Lake Ranch, TX 75765
104	30616	Dixon Tommy A & Natalie	556 Cimarron Trail, Holly Lake Ranch, TX 75765
105	30617	Dixon Natalie & Tommy Allan	556 Cimarron Trail, Holly Lake Ranch, TX 75765
106	124028	Hartman Terry	3617 Wandering Trail, Plano, TX 75075
107	30619	Villalobos Mario A	6123 Plantation Dr, Tyler, TX 75703
108	30620	Oubre Rene L Jr & Kathryn L	16345 Antietam Ave, Baton Rouge, La 70817
109	30621	Oubre Rene L Jr & Kathryn L	16345 Antietam Ave, Baton Rouge, La 70817
110	30622	Barncord Daniel Lee & Angela	618 Cimarron Trail, Hawkins, TX 75765
111	30623	Pfund James Kemer Trust	628 Cimarron Trail, Holly Lake Ranch, TX 75765
112	30624	Van Allen Frank S & Elisabeth M	18576 FM 740, Forney, TX 75126
113	30627	Daniel Laney Christopher	684 Cimarron Trail, Holly Lake Ranch, TX 75765
114	30629	Stein Gary A & Patty M	120 Wildwood Trail, Holly Lake Ranch, TX 75765

ID	PROP ID	Landowner Name	Landowner Address
115	30630	White Walter & Glenda White	126 Wildwood Trail, Holly Lake Ranch, TX 75765
116	30631	Crone Sarah Catherine	138 Wildwood Trail, Holly Lake Ranch, TX 75765
117	30632	Carter Marie	**No address listed**
118	30633	Chamley Andrew E & Sue	**No address listed**
119	30635	McConniel Mina Janeen Et Vir Richard Alfred McConniel	184 Wildwood Trail, Holly Lake Ranch, TX 75765
120	80194	Chappell Betsy & William	2868 CR 3550, Holly Lake Ranch, TX 75765
121	121075	Chappell Betsy & William	2868 CR 3550, Holly Lake Ranch, TX 75765
122	118041	Bergh Albert Gordon Jr & Patricia L	3300 CR 3550, Holly Lake Ranch, TX 75765
123	18349	Wade James Whitfield	2193 S Mimosa Rd, Big Sandy, TX 75755
124	18355	Shipp Rickey	4441 FM 1002 S. Big Sandy, TX 75755
125	12115	Byrd Audis C Etux Deborah K	834 White Dogwood Rd, Big Sandy, TX 75755
126	24482	Byrd Audis C Etux Deborah K	834 White Dogwood Rd, Big Sandy, TX 75755
127	137901	Byrd Audis C Etux Deborah K	834 White Dogwood Rd, Big Sandy, TX 75755
128	106914	Byrd James Aaron & Susan Camille Byrd, Co Trustees	110 Rolling Spring Drive, Aledo, TX 76008
129	106915	Byrd James Aaron & Susan Camille Byrd, Co Trustees	110 Rolling Spring Drive, Aledo, TX 76008
130	106912	Byrd James Aaron & Susan Camille Byrd, Co Trustees	110 Rolling Spring Drive, Aledo, TX 76008
131	24475	Byrd Audis C Etux Deborah K	834 White Dogwood Rd, Big Sandy, TX 75755
132	21973	Joe & Judy Byrd Properties LLC	110 Rolling Spring Drive, Aledo, TX 76008
133	63354	Byrd Audis C	834 White Dogwood Rd, Big Sandy, TX 75755
134	96698	Byrd Audis C, James Aaron Byrd & Susan Camille Byrd	834 White Dogwood Rd, Big Sandy, TX 75755



APEX COMPANIES, LLC
12501 Hymeadow Dr #1G
Austin, TX 7875
(512) 250-2600
www.apexcos.com

PRIMO BRANDS™

ADJACENT LANDOWNER MAP

TPDES Permit Application
Wood County Bottling Plant
Primo Brands
Apex Project No. BLU062-0206725-24013519
April 2025

Service Layer Credits: World Topographic Map: Smith County, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA
World Boundaries and Places: Esri, HERE, Garmin, iPC

Coordinate System: NAD 1983 2011 UTM Zone 15N

Document Path: Z:\GIS_Repository\Austin\2025\BlueTriton (Primo Brands)\Blue Triton (Primo Brands).aprx

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

Applicants should use this template to develop a plain language summary of your facility and application as required by Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H. You may modify the template as necessary to accurately describe your facility as long as the summary includes the following information: (1) the function of the proposed plant or facility; (2) the expected output of the proposed plant or facility; (3) the expected pollutants that may be emitted or discharged by the proposed plant or facility; and (4) how you will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

Fill in the highlighted areas below to describe your facility and application in plain language. Instructions and examples are provided below. Make any other edits necessary to improve readability or grammar and to comply with the rule requirements. After filling in the information for your facility delete these instructions.

If you are subject to the alternative language notice requirements in 30 TAC Section 39.426, **you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package**. For your convenience, a Spanish template has been provided below.

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS INDUSTRIAL WASTEWATER/STORMWATER

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

Primo Brands (CN601458458) operates the Wood County Bottling Plant (RN102935301), a facility that manufactures, stores, bottles and distributes spring and drinking water products. The facility is located at 3265 Farm-to-Market 2869, in Hawkins, Wood County, Texas 75765. Primo Brands has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004812000 (EPA I.D. No. TX0129186) to authorize an increase of the discharge of wastewater to a volume not to exceed a daily average flow of 250,000 gallons per day and daily max flow of 330,000 gallons per day.

Discharges from the facility are expected to contain suspended solids, dissolved solids, sulfate, chloride, *E. coli*, and oil and grease. Wastewater is generated from the various bottling operations including Reverse-Osmosis units, bottling filler spill and flushes, cleaning water from bottling lines, Clean-in-Place processes, carbon and microfiltration systems, boiler

blowdown and cooling tower blowdown and will be treated by oil/water/grit separator drains to a neutralizer tank to adjust the pH due to low pH of source water. The water then flows through wetland cells and evaporative cell to a discharge pipeline outleting in Big Sandy Creek .

LEGEND:

- 3-Miles Downstream From Discharge Point
- 1-Mile Downstream From Discharge Point
- Piney Woods Springs - PWS Production Borehole
- Wood County Bottling Plant - PWS Production Well
- Temporary Wells - Construction and Irrigation
- Spring Sites
- Spring Monitoring Wells
- Monitoring Wells
- Private Wells
- Process Wetland Discharge
- Roadway
- Process Wetland Pipeline
- Process Wetland Discharge Pipeline
- Wetland One Mile Radius
- Bottling Facility
- Process Wetland
- Effluent Storage
- Site Property Boundary
- Discharge Path

PW-9
PW-10
PW-11
PW-12
PW-13 (Future Installation)
PW-14 (Future Installation)
PW-15 (Future Installation)
PW-16
MW-9
MW-3
MW-2
Spring-B
820B-1
820B-3
820B-2
MW-5
W1U
PW-1
W1
MW-1A
820A-1A
820A-3
820A-2
Spring-A
W2D
Spring-E
W3D
PW-2
W2
W2U
PW-3
W3
MW-6
W3U
820WELL
292WELL
100WELL
TW-1
TW-2
TW-3
UW-1
UW-3
UW-2
UW-4
Bottling Facility
Boundary of Process Wetland
Boundary of Effluent Storage
PW-4
W4
W5
PW-5
MW-7
F3
F2
F1
Spring-F
MW-8
Spring-C
820C-1
820C-3
820C-2
A-3
PW-6
A-2
Spring-K
PW-8
Spring-D
MW-4
820D-1
820D-3
820D-4
A-4S
A-4D
A-1
PW-7
Eschevarria
Schamberger
Warren Swamp
Greenbriar Lake
Greenbriar Creek
Big Sandy Creek
Boggy Creek
Boggy Lake
Nichols Branch
Peron Branch
Peron Ch
Sand Branch
TRAILER PARK
APPROXIMATE BOUNDARY
BR 326
PIPELINES

N

SCALE
1:24,000

0 1,000 2,000 Feet
0 0.25 0.5 Miles
0 0.5 1 Kilometers

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TPDES Permit Renewal Application

Primo Brands
Wood County Bottling Plant
Wood County, Texas

Project No.

Apex Companies, LLC
12100 Ford Road, Suite 401
Frisco, Texas 75234
Phone: (469) 365-1100
www.apexcos.com

Area Topographic Map

Shady Grove Texas Quadrangle
1982



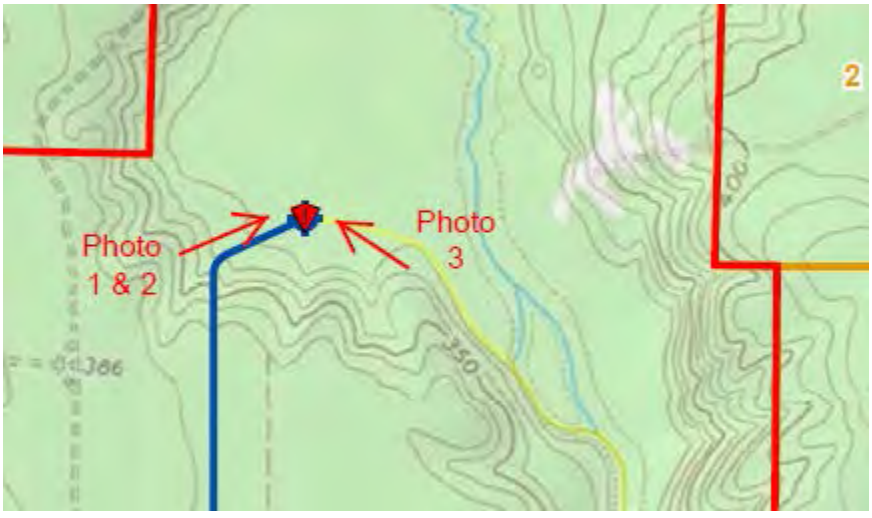
Photograph 1: Outfall 001 – Discharges to marsh area of Big Sandy Creek – EXISTING (No Change)

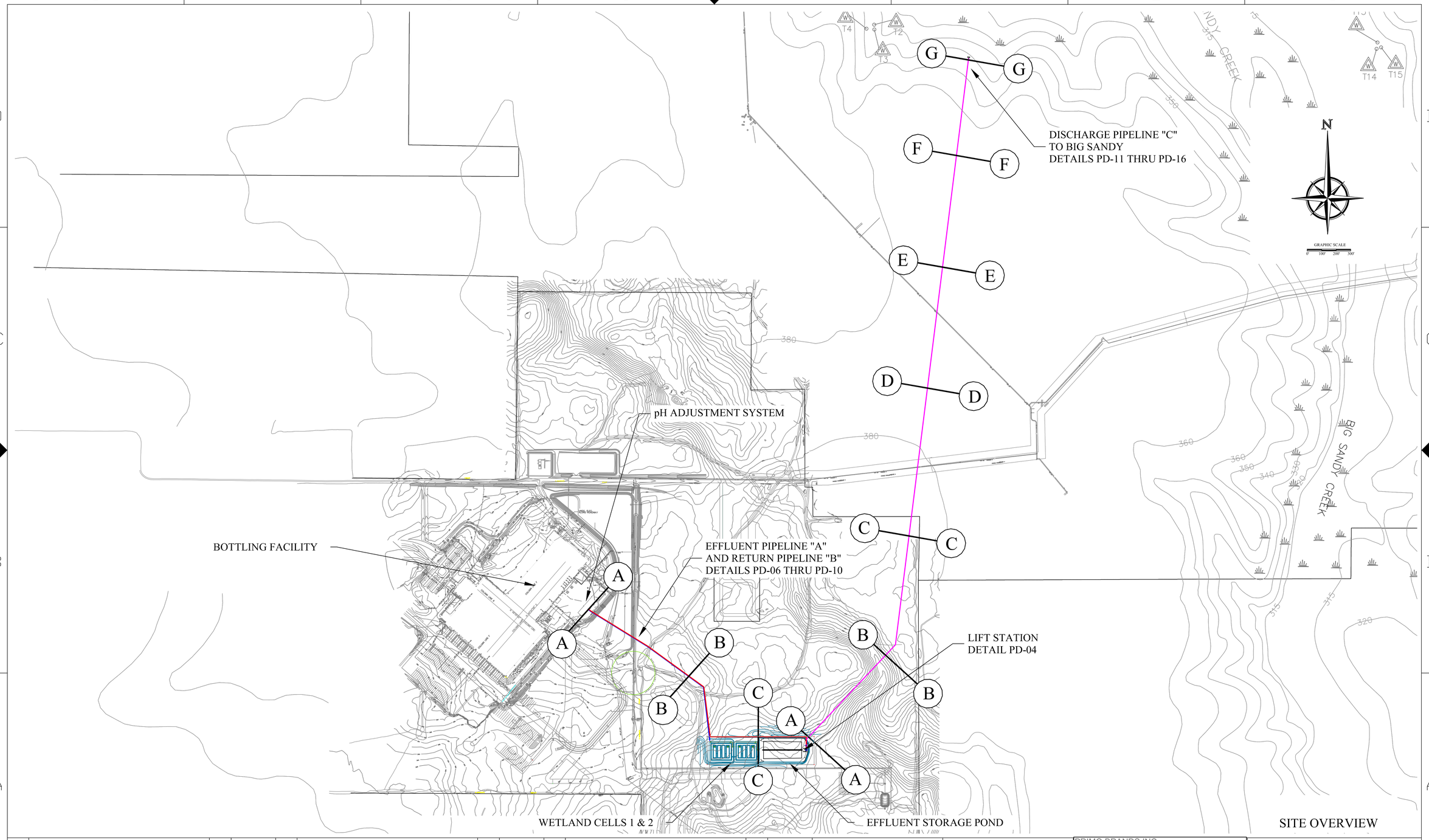


Photograph 2: Outfall 001 discharge structure – EXISTING (No Change)



Photograph 3: View downstream of Outfall 001 – Looking NW – EXISTING (No Change)





SITE OVERVIEW

REV.	REVISION DESCRIPTION	DRN.	REV. DATE
G	INFORMATION ONLY – TPDES RENEWAL APPLICATION	JBB	01–2011
F	AS BUILT	JBB	08–29–08
E	ISSUED FOR CONSTRUCTION	JBB	12–21–07
D	ISSUED FOR FINAL REVIEW	JBB	10/23/07
C	ISSUED FOR PERMITTING	JBB	10–16–06
B	ADDED INSPECTION PORTAL	JBB	09–05–06
A	DRAFT – INITIAL RELEASE	JBB	08–11–06

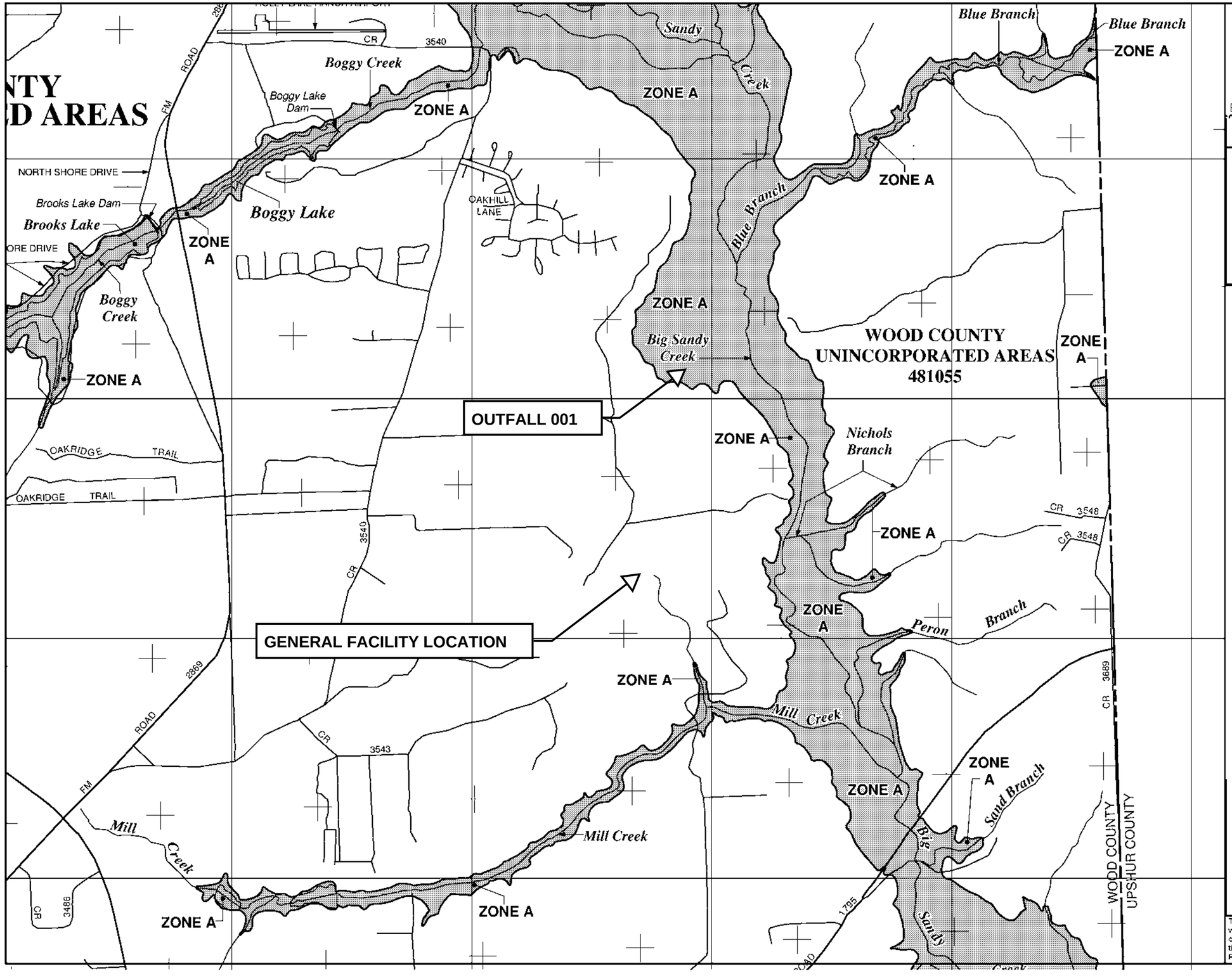
DRAWN: JBB | DESIGN FIRM CONTROL NO.: TITAN

PRIMO BRANDS INC
WOOD COUNTY BOTTLING PLANT
HAWKINS, WOOD COUNTY, TEXAS

UTILITY SYSTEMS
SITE OVERVIEW
GENERAL REFERENCE

DATE: 08–16–07 | D.M.: S. LOLLING | SCALE: 1" = 300'

SIZE: D | SHEET NO.: WF07–GR–05 | REV. NO.: G



PANEL 0400C

FIRM

FLOOD INSURANCE RATE MAP

WOOD COUNTY,

TEXAS

AND INCORPORATED AREAS

PANEL 400 OF 500

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
WOOD COUNTY	481055	0400	C

Notice to User. The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
48499C0400C

EFFECTIVE DATE
SEPTEMBER 3, 2010

Federal Emergency Management Agency

NATIONAL FLOOD INSURANCE PROGRAM

FEMA PANEL
TPDES Renewal Application
Primo Brands
Wood County Bottling Plant
Wood County, Texas

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

ATTACHMENT D

CHEMICAL ADDITIVES

MATERIAL SAFETY DATA SHEETS

ATTACHMENT D
Primo Brands TPDES Permit Renewal Application

Chemical Additive Data Summary

Technical Report 1.0 Section 5

Manufacturers PIN	*Specific Wastestream*	*Product Use*	*Composition*	*CAS Number*	*Persistent, NonPersistent or Bioaccumulative*	*Frequency*	*Approx Monthly Usage (lb)*
GE STEAMATE FM1000	Boiler System	Corrosion Inhibitor	No hazardous substances (as defined by OSHA)	---	Non Persistent	Daily	5
GE CORTROL IS104	Boiler System	Boiler Oxygen Scavenger	Potassium sulfite	10117-38-1	Non Persistent	Daily	6
GE OPTISPERSE AP302	Boiler System	Scale Inhibitor	No Hazardous Substances (as defined by OSHA)	---	Non Persistent	Daily	2-4
GE GENGARD GN8206	Cooling Tower System	Scale Inhibitor	Sodium Hydroxide	1310-73-2	Non Persistent	Daily	110
			Chlorotolytriazole Sodium Salt	202420-04-0			
GE GENGARD GN7300	Cooling Tower System	Corrosion inhibitor	Phosphoric Acid	7664-38-2	Non Persistent	Daily	18
GE SPECTRUS NX1100	Cooling Tower System AND Closed Loop Chiller/Cooling Systems	Non-ox Biocide	2-Bromo-2-nitropropane-1,3-diol (Bronopol)	52-51-7	Non Persistent	Semi-Monthly	75
			Magnesium nitrate	10377-60-3			
			Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)	55965-84-9			
			Magnesium chloride	7786-30-3			
			Sulphuric acid	7664-93-9			
GE CORRSHIELD NT4207	Closed Loop Chiller/Cooling Systems	Corrosion/Scale Inhibitor	Sodium Nitrate	7632-00-0	Non Persistent	When needed	20
			Boric Acid, Disodium Salt, Penthydrate	12179-04-3			
GE BETZ MPH5000	Closed Loop - No Discharge	pH Control	Citric Acid	77-92-9	Non Persistent	Monthly	50
GE HYPERSPERSE MDC220	RO System	Antiscalant	Phophonic Acid	29329-71-3	Non Persistent	Daily	215
GE FLOGARD POT807	Utility/Potable Water System	Corrosion Inhibitor	Phosphoric Acid, tripotassium Salt	7778-53-2	Non Persistent	Daily	205
			Tetrapotassium pyrophosphate	7320-34-5			
Caustic - Commodity	Utility/Potable Water System	pH control	Sodium Hydroxide	1310-73-2	Non Persistent	Daily	---
Sodium Hypochlorite - Commodity	Utility/Potable Water System	Oxidizing Biocide	Sodium Hydroxide	7681-52-9	Non Persistent	Daily	---

GE
Water & Process Technologies

Material Safety Data Sheet

Issue Date: 10-FEB-2012
Supercedes: 05-OCT-2011

STEAMATE FM1000

1 Identification

Identification of substance or preparation
STEAMATE FM1000

Product Application Area
Steam condensate treatment.

Company/Undertaking Identification
GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355-3300, F 215 953 5524

Emergency Telephone
(800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300 Prepared on: 10-FEB-2012

2 Hazard(s) identification

****
EMERGENCY OVERVIEW

CAUTION

May cause slight irritation to the skin. May cause slight irritation to the eyes. Vapors, gases, mists and/or aerosols may cause irritation to upper respiratory tract.

DOT hazard is not applicable
Odor: Slight; Appearance: Off-White, Emulsion

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water
****

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:
Primary route of exposure; May cause slight irritation to the skin.

ACUTE EYE EFFECTS:
May cause slight irritation to the eyes.

ACUTE RESPIRATORY EFFECTS:
Vapors, gases, mists and/or aerosols may cause irritation to upper respiratory tract.

INGESTION EFFECTS:
May cause slight gastrointestinal irritation.

TARGET ORGANS:
No evidence of potential chronic effects.

MEDICAL CONDITIONS AGGRAVATED:
Not known.

SYMPTOMS OF EXPOSURE:
May cause redness or itching of skin.

3 Composition / information on ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

This product is not hazardous as defined by OSHA regulations.

No component is considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration at OSHA thresholds for carcinogens.

4 First-aid measures

SKIN CONTACT:
Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. Get medical attention if irritation develops or persists.

EYE CONTACT:
Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

INHALATION:
Remove to fresh air. Get medical attention if cough or other symptoms develop.

INGESTION:
Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 2-8 fluid ounces (60-240 mL) of milk or water.

NOTES TO PHYSICIANS:
No special instructions

5 Fire-fighting measures

FIRE FIGHTING INSTRUCTIONS:
Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
EXTINGUISHING MEDIA:
dry chemical, carbon dioxide, foam or water
HAZARDOUS DECOMPOSITION PRODUCTS:
oxides of carbon
FLASH POINT:
> 200F > 93C P-M(CC)

6 Accidental release measures

PROTECTION AND SPILL CONTAINMENT:
Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.
DISPOSAL INSTRUCTIONS:
Water contaminated with this product may be sent to a sanitary sewer treatment facility,in accordance with any local agreement,a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7 Handling and storage

HANDLING:
Normal chemical handling.
STORAGE:
Keep containers closed when not in use. Protect from freezing. Shelf life 135 days.

8 Exposure controls / personal protection

EXPOSURE LIMITS

This product is not hazardous as defined by OSHA regulations.

ENGINEERING CONTROLS:
adequate ventilation
PERSONAL PROTECTIVE EQUIPMENT:
Use protective equipment in accordance with 29CFR 1910 Subpart I
RESPIRATORY PROTECTION:
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.
USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.
If air-purifying respirator use is appropriate, use any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.
SKIN PROTECTION:
rubber, butyl or viton gloves -- Wash off after each use. Replace as necessary.
EYE PROTECTION:
splash proof chemical goggles

9 Physical and chemical properties

Spec. Grav.(70F,21C)	1.010	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	~ 30	Vapor Density (air=1)	< 1.00
Freeze Point (C)	~ -1		
Viscosity(cps 70F,21C)	176	% Solubility (water)	100.0

Odor		Slight
Appearance		Off-White
Physical State		Emulsion
Flash Point	P-M(CC)	> 200F > 93C
pH As Is (approx.)		6.2
Evaporation Rate (Ether=1)		< 1.00
Percent VOC:		ND

NA = not applicable ND = not determined

10 Stability and reactivity

CHEMICAL STABILITY:
Stable under normal storage conditions.
POSSIBILITY OF HAZARDOUS REACTIONS:
No known hazardous reactions.
INCOMPATIBILITIES:
May react with strong oxidizers.
DECOMPOSITION PRODUCTS:
oxides of carbon

11 Toxicological information

Oral LD50 RAT: >5000 mg/kg
NOTE - Calculated value according to GHS additivity formula
Dermal LD50 RABBIT: >5000 mg/kg
NOTE - Calculated value according to GHS additivity formula

12 Ecological information

AQUATIC TOXICOLOGY
Daphnia magna 48 Hour Static Renewal Bioassay
LC50= 155; No Effect Level= 31.3 mg/L
Fathead Minnow 96 Hour Static Renewal Bioassay
LC50= 67; No Effect Level= 31.3 mg/L

BIODEGRADATION
BOD-28 (mg/g): 92
BOD-5 (mg/g): 48
COD (mg/g): 236
TOC (mg/g): 59

13 Disposal considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14 Transport information

Transportation Hazard: Not Applicable
DOT: Not Regulated

DOT EMERGENCY RESPONSE GUIDE #: Not applicable
Note: Some containers may be DOT exempt, please check BOL for exact container classification
IATA: Not Regulated

IMDG: Not Regulated

15 Regulatory information

TSCA:
All components of this product are included on or are in compliance with the U.S. TSCA regulations.
CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):
No regulated constituent present at OSHA thresholds
FOOD AND DRUG ADMINISTRATION:
The ingredients in this product are approved by FDA for use in boilers where the steam may contact food.
NSF Registered and/or meets USDA (according to 1998 Guidelines):
Registration number: 141001
Category Code(s):
G6 Boiler treatment products - all food processing areas/food contact
G5 Cooling and retort water treatment products - all food processing areas
SARA SECTION 312 HAZARD CLASS:
Product is non-hazardous under Section 311/312
SARA SECTION 302 CHEMICALS:
No regulated constituent present at OSHA thresholds
SARA SECTION 313 CHEMICALS:
No regulated constituent present at OSHA thresholds
CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):
No regulated constituents present
MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16 Other information

HMIS vII **CODE TRANSLATION**

Health	1	Slight Hazard
Fire	1	Slight Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles,Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	29-JAN-1997		** NEW **
	07-DEC-1999	15	29-JAN-1997
	04-APR-2000	15	07-DEC-1999
	08-MAY-2000	4,7	04-APR-2000
	23-MAY-2000	15	08-MAY-2000
	25-OCT-2000	15	23-MAY-2000
	28-NOV-2000	15	25-OCT-2000
	03-DEC-2001	12	28-NOV-2000
	13-DEC-2001	12	03-DEC-2001
	03-MAY-2005	16	13-DEC-2001
	18-APR-2006	7	03-MAY-2005
	26-MAR-2009	5,8,10	18-APR-2006
	15-MAY-2009	15	26-MAR-2009
	17-JUN-2009	15	15-MAY-2009
	05-OCT-2011	11	17-JUN-2009
	10-FEB-2012	1,16	05-OCT-2011

GE
Water & Process Technologies

Material Safety Data Sheet

Issue Date: 09-JUN-2011
Supercedes: 18-JUN-2009

CORTROL IS104

1 Identification

Identification of substance or preparation
CORTROL IS104

Product Application Area
Oxygen scavenger.

Company/Undertaking Identification
GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355-3300, F 215 953 5524

Emergency Telephone
(800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300 Prepared on: 09-JUN-2011

2 Hazard(s) identification

****
EMERGENCY OVERVIEW

WARNING

May cause moderate irritation to the skin. Potential skin sensitizer. May cause moderate irritation to the eyes. May cause irritation to mucous membranes. Repeated exposure may result in respiratory sensitization.

DOT hazard is not applicable
Odor: Slight; Appearance: Colorless To Light Yellow, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water
****

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:
Primary route of exposure; May cause moderate irritation to the skin. Potential skin sensitizer.

ACUTE EYE EFFECTS:
May cause moderate irritation to the eyes.

ACUTE RESPIRATORY EFFECTS:

Primary route of exposure;May cause irritation to mucous membranes. Repeated exposure may result in respiratory sensitization.

INGESTION EFFECTS:
May cause gastrointestinal irritation with possible nausea, vomiting, abdominal discomfort and diarrhea.

TARGET ORGANS:
Prolonged or repeated exposures may cause primary irritant dermatitis and/or allergic respiratory reactions.

MEDICAL CONDITIONS AGGRAVATED:
Asthma.

SYMPTOMS OF EXPOSURE:
May cause local irritation or a sensitization reaction upon direct contact with skin or respiratory tract.

3 Composition / information on ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

Cas#	Chemical Name	Range(w/w%)
10117-38-1	POTASSIUM SULFITE Transient irritant; potential sensitizer (skin and respiratory)	40-70

4 First-aid measures

SKIN CONTACT:
Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. Get medical attention if irritation develops or persists.

EYE CONTACT:
Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

INHALATION:
If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.

INGESTION:
Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 2-8 fluid ounces (60-240 mL) of milk or water.

NOTES TO PHYSICIANS:
No special instructions

5 Fire-fighting measures

FIRE FIGHTING INSTRUCTIONS:
Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
EXTINGUISHING MEDIA:
dry chemical, carbon dioxide, foam or water
HAZARDOUS DECOMPOSITION PRODUCTS:
oxides of sulfur
FLASH POINT:
> 200F > 93C P-M(CC)

6 Accidental release measures

PROTECTION AND SPILL CONTAINMENT:
Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.
DISPOSAL INSTRUCTIONS:
Water contaminated with this product may be sent to a sanitary sewer treatment facility,in accordance with any local agreement,a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7 Handling and storage

HANDLING:
Normal chemical handling.
STORAGE:
Keep containers closed when not in use. Protect from freezing. Preferably stored between 40-100F (5-38C).

8 Exposure controls / personal protection

EXPOSURE LIMITS

CHEMICAL NAME

POTASSIUM SULFITE
PEL (OSHA): LIMITS HAVE NOT BEEN ESTABLISHED BY US OSHA.
TLV (ACGIH): LIMITS HAVE NOT BEEN ESTABLISHED BY ACGIH.

ENGINEERING CONTROLS:
adequate ventilation
PERSONAL PROTECTIVE EQUIPMENT:
Use protective equipment in accordance with 29CFR 1910 Subpart I
RESPIRATORY PROTECTION:
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.
USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.
If air-purifying respirator use is appropriate, use any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.
SKIN PROTECTION:
neoprene gloves-- Wash off after each use. Replace as

necessary.

EYE PROTECTION:

splash proof chemical goggles

9 Physical and chemical properties

Spec. Grav.(70F,21C)	1.462	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	< -30	Vapor Density (air=1)	< 1.00
Freeze Point (C)	< -34		
Viscosity(cps 70F,21C)	7	% Solubility (water)	100.0

Odor		Slight
Appearance		Colorless To Light Yellow
Physical State		Liquid
Flash Point	P-M(CC)	> 200F > 93C
pH As Is (approx.)		9.7
Evaporation Rate (Ether=1)		< 1.00
Percent VOC:		0.0

NA = not applicable ND = not determined

10 Stability and reactivity

CHEMICAL STABILITY:

Stable under normal storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

Contact with water reactive compounds may cause fire or explosion.

INCOMPATIBILITIES:

May react with strong oxidizers.

DECOMPOSITION PRODUCTS:

oxides of sulfur

11 Toxicological information

Oral LD50 RAT:	>1,000 mg/kg
NOTE - Estimated value	
Dermal LD50 RABBIT:	>2,000 mg/kg
NOTE - Estimated value	

12 Ecological information

AQUATIC TOXICOLOGY

Daphnia magna 48 Hour Static Screen

50% Mortality= 2000; 0% Mortality= 1000 mg/L

Fathead Minnow 96 Hour Static Renewal Bioassay

LC50= 1760; No Effect Level= 1250 mg/L

BIODEGRADATION

Product contains only inorganics that are not subject to typical biological degradation. Assimilation by microbes may occur in waste treatment or the environment.

13 Disposal considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14 Transport information

Transportation Hazard: Not Applicable
DOT: Not Regulated

DOT EMERGENCY RESPONSE GUIDE #: Not applicable
Note: Some containers may be DOT exempt, please check BOL for exact container classification
IATA: Not Regulated

IMDG: Not Regulated

15 Regulatory information

TSCA:
All components of this product are included on or are in compliance with the U.S. TSCA regulations.
CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):
No regulated constituent present at OSHA thresholds
FOOD AND DRUG ADMINISTRATION:
ALL ingredients in this product are authorized in 21CFR173.310 for use as boiler water additives where the steam may contact food.
NSF Registered and/or meets USDA (according to 1998 Guidelines):
Registration number: 141466
Category Code(s):
G8 Cooling and retort water treatment products - all food processing areas except meat and poultry
G9 Boiler treatment products - all food processing areas except meat and poultry/food contact
SARA SECTION 312 HAZARD CLASS:
Immediate(acute);Delayed(Chronic)
SARA SECTION 302 CHEMICALS:
No regulated constituent present at OSHA thresholds
SARA SECTION 313 CHEMICALS:
No regulated constituent present at OSHA thresholds

CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):
No regulated constituents present

MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16 Other information

HMIS vII		CODE TRANSLATION
Health	2	Moderate Hazard
Fire	0	Minimal Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles,Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	14-FEB-1997		** NEW **
	23-APR-1997	15	14-FEB-1997
	11-JUL-1997	15	23-APR-1997
	23-APR-2001	4	11-JUL-1997
	12-APR-2007	5,10	23-APR-2001
	18-JUN-2009	4,8,10,15	12-APR-2007
	09-JUN-2011	10	18-JUN-2009

GE
Water & Process Technologies

Material Safety Data Sheet

Issue Date: 24-JUN-2009
Supercedes: 27-OCT-2008

OPTISPERSE AP302

1 Identification

Identification of substance or preparation
OPTISPERSE AP302

Product Application Area
Water based internal boiler treatment chemical.

Company/Undertaking Identification
GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355-3300, F 215 953 5524

Emergency Telephone
(800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300 Prepared on: 24-JUN-2009

2 Hazard(s) identification

****
EMERGENCY OVERVIEW

CAUTION

May cause slight irritation to the skin. May cause slight irritation to the eyes. Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard is not applicable
Odor: Mild; Appearance: Yellow, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water
****

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:
Primary route of exposure; May cause slight irritation to the skin.

ACUTE EYE EFFECTS:
May cause slight irritation to the eyes.

ACUTE RESPIRATORY EFFECTS:
Mists/aerosols may cause irritation to upper respiratory tract.

INGESTION EFFECTS:
May cause slight gastrointestinal irritation.

TARGET ORGANS:
No evidence of potential chronic effects.

MEDICAL CONDITIONS AGGRAVATED:
Not known.

SYMPTOMS OF EXPOSURE:
May cause redness or itching of skin.

3 Composition / information on ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

This product is not hazardous as defined by OSHA regulations.

No component is considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration at OSHA thresholds for carcinogens.

4 First-aid measures

SKIN CONTACT:
Wash thoroughly with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

EYE CONTACT:
Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get medical attention if irritation persists after flushing.

INHALATION:
If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.

INGESTION:
Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 2-8 fluid ounces (60-240 mL) of milk or water.

NOTES TO PHYSICIANS:
No special instructions

5 Fire-fighting measures

FIRE FIGHTING INSTRUCTIONS:
Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
EXTINGUISHING MEDIA:
dry chemical, carbon dioxide, foam or water
HAZARDOUS DECOMPOSITION PRODUCTS:
oxides of carbon and sulfur, hydrogen chloride
FLASH POINT:
> 200F > 93C P-M(CC)

6 Accidental release measures

PROTECTION AND SPILL CONTAINMENT:
Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.
DISPOSAL INSTRUCTIONS:
Water contaminated with this product may be sent to a sanitary sewer treatment facility,in accordance with any local agreement,a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7 Handling and storage

HANDLING:
Normal chemical handling.
STORAGE:
Keep containers closed when not in use. Do not freeze. If frozen, thaw and mix completely prior to use.

8 Exposure controls / personal protection

EXPOSURE LIMITS

This product is not hazardous as defined by OSHA regulations.

ENGINEERING CONTROLS:
adequate ventilation
PERSONAL PROTECTIVE EQUIPMENT:
Use protective equipment in accordance with 29CFR 1910 Subpart I
RESPIRATORY PROTECTION:
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.
USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.
If air-purifying respirator use is appropriate, use any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.
SKIN PROTECTION:
rubber, butyl, viton or neoprene gloves -- Wash off after each use. Replace as necessary.
EYE PROTECTION:
splash proof chemical goggles

9 Physical and chemical properties

Spec. Grav.(70F,21C)	1.208	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	21	Vapor Density (air=1)	< 1.00
Freeze Point (C)	-6		
Viscosity(cps 70F,21C)	209	% Solubility (water)	100.0

Odor		Mild
Appearance		Yellow
Physical State		Liquid
Flash Point	P-M(CC)	> 200F > 93C
pH As Is (approx.)		10.3
Evaporation Rate (Ether=1)		< 1.00
Percent VOC:		0.0

NA = not applicable ND = not determined

10 Stability and reactivity

CHEMICAL STABILITY:
Stable under normal storage conditions.
POSSIBILITY OF HAZARDOUS REACTIONS:
No known hazardous reactions.
INCOMPATIBILITIES:
May react with strong oxidizers.
DECOMPOSITION PRODUCTS:
oxides of carbon and sulfur, hydrogen chloride

11 Toxicological information

Oral LD50 RAT:	>2,000 mg/kg
NOTE - Estimated value	
Dermal LD50 RABBIT:	>2,000 mg/kg
NOTE - Estimated value	

12 Ecological information

AQUATIC TOXICOLOGY
Daphnia magna 48 Hour Static Renewal Bioassay
LC50= 2730; No Effect Level= 1000 mg/L
Fathead Minnow 96 Hour Static Renewal Bioassay
LC50= 5100; No Effect Level= 2000 mg/L

BIODEGRADATION
BOD-28 (mg/g): 0
BOD-5 (mg/g): 0
COD (mg/g): 390
TOC (mg/g): 117

13 Disposal considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14 Transport information

DOT HAZARD: Not Applicable
PROPER SHIPPING NAME:

DOT EMERGENCY RESPONSE GUIDE #: Not applicable
Note: Some containers may be DOT exempt, please check BOL for exact container classification

15 Regulatory information

TSCA:
All components of this product are included on or are in compliance with the U.S. TSCA regulations.
CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):
No regulated constituent present at OSHA thresholds
FOOD AND DRUG ADMINISTRATION:
ALL ingredients in this product are authorized in 21CFR173.310 for use as boiler water additives where the steam may contact food.
NSF Registered and/or meets USDA (according to 1998 Guidelines):
Registration number: 139021
Category Code(s):
G5 Cooling and retort water treatment products - all food processing areas
G6 Boiler treatment products - all food processing areas/food contact
SARA SECTION 312 HAZARD CLASS:
Product is non-hazardous under Section 311/312
SARA SECTION 302 CHEMICALS:
No regulated constituent present at OSHA thresholds
SARA SECTION 313 CHEMICALS:
No regulated constituent present at OSHA thresholds

CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):
No regulated constituents present

MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16 Other information

HMIS vII		CODE TRANSLATION
Health	1	Slight Hazard
Fire	1	Slight Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles,Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	21-MAY-1998		** NEW **
	05-OCT-1998	15	21-MAY-1998
	08-OCT-1998	15	05-OCT-1998
	20-JUL-1999	12	08-OCT-1998
	22-DEC-2000	12	20-JUL-1999
	25-JUN-2001	15	22-DEC-2000
	01-NOV-2001	15	25-JUN-2001
	18-MAR-2004	15	01-NOV-2001
	05-JAN-2006	4,8,15	18-MAR-2004
	01-DEC-2006	5,10	05-JAN-2006
	23-JAN-2007	15	01-DEC-2006
	29-JAN-2007	;EDIT:15	23-JAN-2007
	13-JUL-2007	4,8,15	29-JAN-2007
	27-OCT-2008	5,8,10	13-JUL-2007
	24-JUN-2009	10,15	27-OCT-2008

GE
Water & Process Technologies

Material Safety Data Sheet

Issue Date: 07-AUG-2012
Supercedes: 01-AUG-2012

GENGARD GN8206

1 Identification

Identification of substance or preparation
GENGARD GN8206

Product Application Area
Corrosion inhibitor

Company/Undertaking Identification
GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355-3300, F 215 953 5524

Emergency Telephone
(800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300 Prepared on: 07-AUG-2012

2 Hazard(s) identification

****
EMERGENCY OVERVIEW

DANGER

Corrosive to skin. Corrosive to the eyes. Mists/aerosols cause irritation to the upper respiratory tract.

DOT hazard: Corrosive to skin/aluminum
Odor: Slight Ammonia; Appearance: Amber To Dark Brown, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water
****

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:
Primary route of exposure; Corrosive to skin.

ACUTE EYE EFFECTS:
Corrosive to the eyes.

ACUTE RESPIRATORY EFFECTS:
Mists/aerosols cause irritation to the upper respiratory tract.

INGESTION EFFECTS:

May cause severe irritation or burning of mouth, throat, and gastrointestinal tract with severe chest and abdominal pain, nausea, vomiting, diarrhea, lethargy and collapse. Possible death when ingested in very large doses.

TARGET ORGANS:
Prolonged or repeated exposures may cause primary irritant dermatitis and/or tissue necrosis.

MEDICAL CONDITIONS AGGRAVATED:
Not known.

SYMPTOMS OF EXPOSURE:
Causes irritation of the skin, eyes, and/or respiratory system.

3 Composition / information on ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

Cas#	Chemical Name	Range(w/w%)
1310-73-2	SODIUM HYDROXIDE Corrosive; toxic (by ingestion)	1-5
202420-04-0	CHLOROTOLYLTRIAZOLE SODIUM SALT May cause mild eye irritation	1-5

4 First-aid measures

SKIN CONTACT:
URGENT! Wash thoroughly with soap and water. Remove contaminated clothing. Get immediate medical attention. Thoroughly wash clothing before reuse.

EYE CONTACT:
URGENT! Immediately flush eyes with water for 30 minutes while removing contact lenses. Hold eyelids apart. Get immediate medical attention.

INHALATION:
If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.

INGESTION:
Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Rinse mouth with plenty of water. Dilute contents of stomach using 4-10 fluid ounces (120-300 mL) of milk or water.

NOTES TO PHYSICIANS:
No special instructions

5 Fire-fighting measures

FIRE FIGHTING INSTRUCTIONS:
Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
EXTINGUISHING MEDIA:
dry chemical, carbon dioxide, foam or water
HAZARDOUS DECOMPOSITION PRODUCTS:
oxides of carbon and nitrogen, hydrogen chloride
FLASH POINT:
> 213F > 101C P-M(CC)
MISCELLANEOUS:
Corrosive to skin/aluminum
UN 3267;Emergency Response Guide #153

6 Accidental release measures

PROTECTION AND SPILL CONTAINMENT:
Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.
DISPOSAL INSTRUCTIONS:
Water contaminated with this product may be sent to a sanitary sewer treatment facility,in accordance with any local agreement,a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7 Handling and storage

HANDLING:
Alkaline. Do not mix with acidic material. Take precautions to minimize foaming.
STORAGE:
Keep containers closed when not in use. Protect from freezing. If frozen, thaw completely and mix thoroughly prior to use. Store away from acids. Do not store in aluminum containers.

8 Exposure controls / personal protection

EXPOSURE LIMITS
CHEMICAL NAME

SODIUM HYDROXIDE
PEL (OSHA): 2 MG/M3
TLV (ACGIH): TWA (Ceiling) = 2 MG/M3

CHLOROTOLYLTRIAZOLE SODIUM SALT
PEL (OSHA): LIMITS HAVE NOT BEEN ESTABLISHED BY US OSHA.
TLV (ACGIH): LIMITS HAVE NOT BEEN ESTABLISHED BY ACGIH.

ENGINEERING CONTROLS:
adequate ventilation
PERSONAL PROTECTIVE EQUIPMENT:
Use protective equipment in accordance with 29CFR 1910 Subpart I
RESPIRATORY PROTECTION:
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.

USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.
If air-purifying respirator use is appropriate, use any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.

SKIN PROTECTION:

gauntlet-type butyl or rubber gloves, chemical resistant apron-- Wash off after each use. Replace as necessary.

EYE PROTECTION:

splash proof chemical goggles, face shield

9 Physical and chemical properties

Spec. Grav.(70F,21C)	1.179	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	21	Vapor Density (air=1)	< 1.00
Freeze Point (C)	-6		
Viscosity(cps 70F,21C)	39	% Solubility (water)	100.0

Odor		Slight Ammonia
Appearance		Amber To Dark Brown
Physical State		Liquid
Flash Point	P-M(CC)	> 213F > 101C
pH As Is (approx.)		13.3
Evaporation Rate (Ether=1)		< 1.00
Percent VOC:		0.0

NA = not applicable ND = not determined

10 Stability and reactivity

CHEMICAL STABILITY:

Stable under normal storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

Contact with strong acids may cause a violent reaction releasing heat. Contact with water reactive compounds may cause fire or explosion.

INCOMPATIBILITIES:

May react with acids or strong oxidizers.

DECOMPOSITION PRODUCTS:

oxides of carbon and nitrogen, hydrogen chloride

11 Toxicological information

Oral LD50 RAT:	>5000 mg/kg
NOTE - Calculated value according to GHS additivity formula	
Dermal LD50 RABBIT:	>5000 mg/kg
NOTE - Calculated value according to GHS additivity formula	
Skin Irritation Score RABBIT:	Corrosive
NOTE - GHS Category 1C skin corrosive	
Eye Irritation Score RABBIT:	Corrosive
NOTE - GHS Category 1 causes serious eye damage	

12 Ecological information

AQUATIC TOXICOLOGY

Daphnia magna 48 Hour Static Renewal Bioassay (pH adjusted)
LC50= 503; No Effect Level= 250 mg/L
Fathead Minnow 96 Hour Static Renewal Bioassay (pH adjusted)
LC50= 266; No Effect Level= 250 mg/L
Rainbow Trout 96 Hour Static Renewal Bioassay (pH adjusted)
LC50= 127; No Effect Level= 100 mg/L

BIODEGRADATION

BOD-28 (mg/g): 43
BOD-5 (mg/g): 21
COD (mg/g): 302
TOC (mg/g): 93

13 Disposal considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is : D002=Corrosive(pH).

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14 Transport information

Transportation Hazard: Corrosive to skin/aluminum
DOT: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.(ACRYLATE TERPOLYMER, SODIUM HYDROXIDE)
8, UN3267, PG III
DOT EMERGENCY RESPONSE GUIDE #: 153
Note: Some containers may be DOT exempt, please check BOL for exact container classification
IATA: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.(ACRYLATE TERPOLYMER, SODIUM HYDROXIDE)
8, UN3267, PG III
IMDG: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.(ACRYLATE TERPOLYMER, SODIUM HYDROXIDE)
8, UN3267, PG III

15 Regulatory information

TSCA:

All components of this product are included on or are in compliance with the U.S. TSCA regulations.

CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):

4,439 gallons due to SODIUM HYDROXIDE;

NSF Registered and/or meets USDA (according to 1998 Guidelines):

Registration number: 144531
Category Code(s):
G5 Cooling and retort water treatment products - all food processing areas
G7 Boiler treatment products - all food processing areas/nonfood contact

SARA SECTION 312 HAZARD CLASS:

Immediate(acute);Delayed(Chronic)

SARA SECTION 302 CHEMICALS:

No regulated constituent present at OSHA thresholds

SARA SECTION 313 CHEMICALS:

No regulated constituent present at OSHA thresholds

CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):

This product contains one or more ingredients at trace levels known to the state of California to cause cancer.

MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16 Other information

HMIS vII		**CODE TRANSLATION**
Health	3	Serious Hazard
Fire	1	Slight Hazard
Reactivity	0	Minimal Hazard
Special	CORR	DOT corrosive
(1) Protective Equipment	D	Goggles,Face Shield,Gloves,Apron

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	09-FEB-2010		** NEW **
	28-OCT-2010	12	09-FEB-2010
	01-FEB-2011	8	28-OCT-2010
	16-FEB-2011	7,10,12	01-FEB-2011
	05-APR-2011	11	16-FEB-2011
	03-MAY-2011	15	05-APR-2011
	14-JUN-2011	3,7,8	03-MAY-2011
	30-JUL-2012	14	14-JUN-2011
	01-AUG-2012	14	30-JUL-2012
	07-AUG-2012	2,4,8,14	01-AUG-2012

GE
Water & Process Technologies

Material Safety Data Sheet

Issue Date: 31-MAR-2011
Supercedes: 01-FEB-2011

GENGARD GN7300

1 Identification

Identification of substance or preparation
GENGARD GN7300

Product Application Area
Corrosion inhibitor

Company/Undertaking Identification
GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355-3300, F 215 953 5524

Emergency Telephone
(800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300 Prepared on: 31-MAR-2011

2 Hazard(s) identification

****
EMERGENCY OVERVIEW

DANGER

Corrosive to skin. Corrosive to the eyes. Mists/aerosols cause irritation to the upper respiratory tract.

DOT hazard: Corrosive to skin/steel
Odor: Mild; Appearance: Colorless To Light Yellow, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water
****

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:
Primary route of exposure; Corrosive to skin.

ACUTE EYE EFFECTS:
Corrosive to the eyes.

ACUTE RESPIRATORY EFFECTS:
Mists/aerosols cause irritation to the upper respiratory tract.

INGESTION EFFECTS:

May cause severe irritation or burning of mouth, throat, and gastrointestinal tract with severe chest and abdominal pain, nausea, vomiting, diarrhea, lethargy and collapse. Possible death when ingested in very large doses.

TARGET ORGANS:
Prolonged or repeated exposures may cause tissue necrosis.

MEDICAL CONDITIONS AGGRAVATED:
Not known.

SYMPTOMS OF EXPOSURE:
Inhalation may cause irritation of mucous membranes and respiratory tract. Skin contact causes severe irritation or burns.

3 Composition / information on ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

Cas#	Chemical Name	Range(w/w%)
7664-38-2	PHOSPHORIC ACID Corrosive	60-100

4 First-aid measures

SKIN CONTACT:
URGENT! Wash thoroughly with soap and water. Remove contaminated clothing. Get immediate medical attention. Thoroughly wash clothing before reuse.

EYE CONTACT:
URGENT! Immediately flush eyes with plenty of low-pressure water for at least 20 minutes while removing contact lenses. Hold eyelids apart. Get immediate medical attention.

INHALATION:
Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get immediate medical attention.

INGESTION:
Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 2-8 fluid ounces (60-240 mL) of milk or water.

NOTES TO PHYSICIANS:
Material is corrosive. It may not be advisable to induce vomiting. Possible mucosal damage may contraindicate the use of gastric lavage.

5 Fire-fighting measures

FIRE FIGHTING INSTRUCTIONS:
Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
EXTINGUISHING MEDIA:
dry chemical, carbon dioxide, foam or water
HAZARDOUS DECOMPOSITION PRODUCTS:
oxides of carbon and phosphorus
FLASH POINT:
> 200F > 93C P-M(CC)
MISCELLANEOUS:
Corrosive to skin/steel
UN 1805;Emergency Response Guide #154

6 Accidental release measures

PROTECTION AND SPILL CONTAINMENT:
Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.
DISPOSAL INSTRUCTIONS:
Water contaminated with this product may be sent to a sanitary sewer treatment facility,in accordance with any local agreement,a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7 Handling and storage

HANDLING:
Acidic. Corrosive(Skin/eyes). Do not mix with alkaline material.
STORAGE:
Keep containers closed when not in use. Use approved containers only. Store in cool, well-vented area. Contact with metals may release flammable hydrogen gas.

8 Exposure controls / personal protection

EXPOSURE LIMITS

CHEMICAL NAME

PHOSPHORIC ACID
PEL (OSHA): 1 MG/M3
TLV (ACGIH): TWA = 1 MG/M3; STEL = 3 MG/M3
MISC: NIOSH REL = 1 MG/M3; NIOSH STEL = 3 MG/M3; NIOSH IDLH = 1000 MG/M3

ENGINEERING CONTROLS:
Adequate ventilation to maintain air contaminants below exposure limits.
PERSONAL PROTECTIVE EQUIPMENT:
Use protective equipment in accordance with 29CFR 1910 Subpart I
RESPIRATORY PROTECTION:
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.
USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.

If air-purifying respirator use is appropriate, use a respirator with HEPA cartridges.

SKIN PROTECTION:

gauntlet-type neoprene gloves, chemical resistant apron--Wash off after each use. Replace as necessary.

EYE PROTECTION:

splash proof chemical goggles, face shield

9 Physical and chemical properties

Spec. Grav.(70F,21C)	1.579	Vapor Pressure (mmHG)	15.0
Freeze Point (F)	< -30	Vapor Density (air=1)	> 1.00
Freeze Point (C)	< -34		
Viscosity(cps 70F,21C)	44	% Solubility (water)	100.0

Odor		Mild
Appearance		Colorless To Light Yellow
Physical State		Liquid
Flash Point	P-M(CC)	> 200F > 93C
pH As Is (approx.)		< 1.0
Evaporation Rate (Ether=1)		< 1.00
Percent VOC:		0.0

NA = not applicable ND = not determined

10 Stability and reactivity

CHEMICAL STABILITY:

Stable under normal storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

Contact with strong bases may cause a violent reaction releasing heat.

INCOMPATIBILITIES:

May react with bases or strong oxidizers.

DECOMPOSITION PRODUCTS:

oxides of carbon and phosphorus

11 Toxicological information

Oral LD50 RAT:	2040 mg/kg
NOTE - Calculated value according to GHS additivity formula	
Dermal LD50 RABBIT:	3650 mg/kg
NOTE - Calculated value according to GHS additivity formula	
Skin Irritation Score RABBIT:	CORROSIVE 24hr
NOTE - DOT HM181 Packing Group III: corrosive to skin in 240 minutes but not 60 minutes	
Eye Irritation Score RABBIT:	CORROSIVE 24hr
Ames Assay :	NEGATIVE

12 Ecological information

AQUATIC TOXICOLOGY

Ceriodaphnia 48 Hour Static Screen (pH adjusted)
85% Mortality= 2500; 5% Mortality= 500 mg/L
Daphnia magna 48 Hour Static Renewal Bioassay (pH adjusted)
LC50= 3540; No Effect Level= 2100 mg/L
Fathead Minnow 96 Hour Static Renewal Bioassay (pH adjusted)
LC50= 4200; No Effect Level= 2100 mg/L

BIODEGRADATION
Product contains only inorganics that are not subject to typical biological degradation. Assimilation by microbes may occur in waste treatment or the environment.

13 Disposal considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
D002=Corrosive(pH, steel).

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14 Transport information

Transportation Hazard: Corrosive to skin/steel
DOT: PHOSPHORIC ACID SOLUTION
8, UN 1805, PG III, RQ
DOT EMERGENCY RESPONSE GUIDE #: 154
Note: Some containers may be DOT exempt, please check BOL for exact container classification
IATA: PHOSPHORIC ACID SOLUTION
8, UN 1805, PG III
IMDG: PHOSPHORIC ACID SOLUTION
8, UN 1805, PG III

15 Regulatory information

TSCA:
All components of this product are included on or are in compliance with the U.S. TSCA regulations.
CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):
507 gallons due to PHOSPHORIC ACID;
NSF Registered and/or meets USDA (according to 1998 Guidelines):
Registration number: 142960
Category Code(s):
G5 Cooling and retort water treatment products - all food processing areas
G7 Boiler treatment products - all food processing areas/nonfood contact
SARA SECTION 312 HAZARD CLASS:
Immediate(acute);Delayed(Chronic)
SARA SECTION 302 CHEMICALS:

No regulated constituent present at OSHA thresholds

SARA SECTION 313 CHEMICALS:

No regulated constituent present at OSHA thresholds

CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):

No regulated constituents present

MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16 Other information

HMIS vII		**CODE TRANSLATION**
Health	3	Serious Hazard
Fire	0	Minimal Hazard
Reactivity	0	Minimal Hazard
Special	CORR	DOT corrosive
(1) Protective Equipment	D	Goggles,Face Shield,Gloves,Apron

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	28-JUN-2007		** NEW **
	23-JUN-2009	10	28-JUN-2007
	01-FEB-2011	8	23-JUN-2009
	31-MAR-2011	15	01-FEB-2011

GE Power & Water
Water & Process Technologies

SAFETY DATA SHEET

SPECTRUS* NX1100

1. Product and Company Identification

Material name	**SPECTRUS NX1100**
Version #	3.0
Revision date	Jul-03-2014
Supersedes date	Sep-25-2013
Chemical description	Blend of biocidal agents
CAS #	Mixture
Product application	Biocide

Company/undertaking identification

GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355 3300, F 215 953 5524

Emergency telephone

(800) 877 1940

2. Hazards Identification

Emergency overview

DANGER

Corrosive to skin. Corrosive to the eyes. Mists/aerosols may cause irritation to upper respiratory tract. May cause an allergic skin reaction.

Potential health effects

Eyes	Corrosive to eyes
Skin	Corrosive to skin
Inhalation	May cause irritation of respiratory tract.
Ingestion	May cause severe irritation or burning of the gastrointestinal tract.
Target organs	Prolonged or repeated exposures may cause tissue necrosis. Repeated skin contact may cause sensitization.
Signs and symptoms	Direct contact with skin will cause severe delayed skin reactions or burns if not washed off immediately.
Medical conditions aggravated by exposure	None known.

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
2-Bromo-2-nitropropane-1,3-diol (Bronopol)	52-51-7	2.5 - 10
Magnesium nitrate	10377-60-3	2.5 - 10
Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)	55965-84-9	2.5 - 10
Magnesium chloride	7786-30-3	1 - 2.5

Hazardous components	CAS #	Percent
Sulphuric acid	7664-93-9	0.1 - 1

Non-hazardous components	CAS #
Water	7732-18-5

Composition comments Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately.

Skin contact Wash thoroughly with soap and water. Take off contaminated clothing and wash before reuse. Get medical attention immediately. Thoroughly wash clothing before reuse.

Inhalation Remove to fresh air.
If breathing is difficult, trained personnel should give oxygen.
If not breathing, give artificial respiration. Get medical attention immediately.

Ingestion Do NOT induce vomiting! Do not feed anything by mouth to an unconscious or convulsive victim. Dilute contents of stomach using 2-8 fluid ounces (60-240ml) of milk or water. Get immediate medical attention.

Notes to physician Material is corrosive. It may not be advisable to induce vomiting. Possible mucosal damage may contraindicate the use of gastric lavage.

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media Dry chemical, CO2, water spray or regular foam.

Protection of firefighters

Specific hazards arising from the chemical Corrosive liquid.

Protective equipment and precautions for firefighters Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Fire fighting equipment/instructions Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products Oxides of carbon and hydrogen bromide hydrogen chloride Oxides of nitrogen. Oxides of sulphur.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental Release Measures

Personal precautions Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. See Section 8 of the MSDS for Personal Protective Equipment.

Environmental precautions Prevent from entering sewers or the immediate environment.
Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.

Methods for cleaning up Keep spills and clean-up residuals out of municipal sewers and open bodies of water. Absorb the spill with spill pillows or inert solids such as clay or vermiculite. Transfer contaminated materials to suitable containers for disposal. Deactivate spill area with freshly prepared solution of 5% sodium bicarbonate and 5% sodium hypochlorite in water. Apply solution to the spill area at a ratio of 10 volumes deactivation solution per estimated volume of residual spill to deactivate any residual active ingredient. Let stand for 30 minutes. Flush the spill area with copious amounts of water to chemical sewer in accordance with local procedures, permits and regulations. DO NOT add deactivation solution to the waste pail to deactivate the adsorbed material. Water contaminated with this product may be sent to a sanitary sewer treatment facility, or a permitted waste treatment facility, in accordance with any local agreements.

7. Handling and Storage

Handling Corrosive liquid. Contains an oxidiser.
Avoid all contact with reducing agents, oils, greases, organics and acids.
Avoid contact with skin and eyes.
Do not breathe vapors or spray mist. Do not create an aerosol.

Storage

Keep container tightly closed in a dry and well-ventilated place.
Store at temperatures below 35°C
Use approved containers only.
Protect from freezing. If frozen, thaw completely and mix thoroughly prior to use.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Sulphuric acid (CAS 7664-93-9)	TWA	0.2 mg/m3	Thoracic fraction.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Sulphuric acid (CAS 7664-93-9)	PEL	1 mg/m3

Biological limit values

No biological exposure limits noted for the ingredient(s).

Engineering controls

Adequate ventilation to maintain air contaminants below exposure limits.

Personal protective equipment

Eye / face protection

Splash proof chemical goggles.
Face shield.

Skin protection

Gauntlet-type rubber, butyl or neoprene gloves.
Chemical resistant apron.
Rubber boots.
Wash off after each use. Replace as necessary.

Respiratory protection

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE. If air-purifying respirator use is appropriate, use organic vapor cartridges and any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance

Physical state Liquid

Color Colorless to yellow green

Odor None

Odor threshold Not available.

pH (concentrated product) 3

pH in aqueous solution 3.7 (5% SOL.)

Vapor pressure 18 mm Hg

Vapor pressure temp. 70 °F (21 °C)

Vapor density < 1 (Air = 1)

Boiling point 220 °F (104 °C)

Melting point/Freezing point 24 °F (-4 °C)

Solubility (water) 100 %

Specific gravity (70°F, 21°C) 1.11

Flash point Not applicable.

Flammability limits in air, upper, % by volume Not available.

Flammability limits in air, lower, % by volume Not available.

Auto-ignition temperature Not available.

Evaporation rate < 1 (Ether = 1)

Viscosity 10 cps

Viscosity temperature 70 °F (21 °C)

Percent volatile	0
Pour point	29 °F (-2 °C)

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Protect from freezing. Avoid contact with strong oxidizers.
Incompatible materials	Avoid all contact with reducing agents, oils, greases, organics and acids. Avoid contact with strong oxidizers.
Hazardous decomposition products	Hydrogen bromide, bromine gas, hydrogen chloride, chlorine gas, oxides of carbon and nitrogen evolved in fire. Sulfur oxides.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Product	**Species**	**Test Results**
SPECTRUS NX1100 (CAS Mixture)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 1 mg/l, 4 Hour
Oral		
LD50	Rat	1030 mg/kg

Components	**Species**	**Test Results**
2-Bromo-2-nitropropane-1,3-diol (Bronopol) (CAS 52-51-7)		
Acute		
Dermal		
LD50	Rat	1600 mg/kg
Inhalation		
LC50	Rat	> 0.59 mg/l, 4 Hour
Oral		
LD50	Rat	324 mg/kg
Magnesium chloride (CAS 7786-30-3)		
Acute		
Oral		
LD50	Rat	2800 mg/kg
Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1) (CAS 55965-84-9)		
Acute		
Inhalation		
LC50	Rat	0.33 mg/l, 4 Hour
Sulphuric acid (CAS 7664-93-9)		
Acute		
Inhalation		
LC50	Rat	0.375 mg/l, 4 Hour
Oral		
LD50	Rat	2140 mg/kg

Acute effects	Harmful in contact with skin. Harmful if swallowed. Harmful if inhaled.
Carcinogenicity	Not classified.

ACGIH Carcinogens

Sulphuric acid (CAS 7664-93-9)	A2 Suspected human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Sulphuric acid (CAS 7664-93-9) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Skin corrosion/irritation Causes severe skin burns and eye damage.

Mutagenicity Not classified.

Reproductive effects Not classified.

Symptoms and target organs Burning pain and severe corrosive skin damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

12. Ecological Information

Ecotoxicity

Product		Species	Test Results
SPECTRUS NX1100 (CAS Mixture)			
	LC50	Ceriodaphnia	4.7 mg/l, Static Renewal Bioassay, 48 hour
		Fathead Minnow	3.5 mg/l, Static Renewal Bioassay, 96 hour
		Menidia beryllina (Silversides)	15.9 mg/l, Static Renewal Bioassay, 96 hour
		Mysid Shrimp	40.5 mg/l, Static Renewal Bioassay, 48 hour
		Sheepshead Minnow	26.7 mg/l, Static Renewal Bioassay, 96 hour
	NOEL	Ceriodaphnia	0.63 mg/l, Static Renewal Bioassay, 48 hour
		Fathead Minnow	1.8 mg/l, Static Renewal Bioassay, 96 hour
		Menidia beryllina (Silversides)	12.5 mg/l, Static Renewal Bioassay, 96 hour
		Mysid Shrimp	18 mg/l, Static Renewal Bioassay, 48 hour
		Sheepshead Minnow	15.5 mg/l, Static Renewal Bioassay, 96 hour
Crustacea	LC50	Daphnia magna	5 mg/l, Static Renewal Bioassay, 48 hour
	NOEL	Daphnia magna	2.5 mg/l, Static Renewal Bioassay, 48 hour
Other	LC50	Rainbow Trout	7.2 mg/l, Static Renewal Bioassay, 96 hour
	NOEL	Rainbow Trout	3.1 mg/l, Static Renewal Bioassay, 96 hour

Components		Species	Test Results
2-Bromo-2-nitropropane-1,3-diol (Bronopol) (CAS 52-51-7)			
	EC50	Daphnia Magna	1.4 mg/l, 48 hour
Other	LC50	Rainbow Trout	41 mg/l, 96 hour

Bioaccumulation / accumulation Not bioaccumulating (Refers to active component) 2-Bromo-2-nitropropane-1,3-diol

Partition coefficient

2-Bromo-2-nitropropane-1,3-diol (Bronopol)	-0.6
Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)	0.5

Persistence and degradability

- COD (mgO2/g)	78 (calculated data)
- BOD 5 (mgO2/g)	2 (calculated data)
- BOD 28 (mgO2/g)	4 (calculated data)
- Closed Bottle Test (% Degradation in 28 days)	2 (calculated data)
- Zahn-Wellens Test (% Degradation in 28 days)	8 (calculated data)
- TOC (mg C/g)	29 (calculated data)

13. Disposal Considerations

Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations.
Waste from residues / unused products	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Dispose of in approved pesticide facility or according to label instructions.

14. Transport Information

DOT

UN number	UN2927
UN proper shipping name	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (MIXTURE OF 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-4-ISOTHIAZOLIN-3-ONE, 2-BROMO-2-NITROPROPANE-1,3-DIOL)
Transport hazard class(es)	
Class	6.1
Subsidiary risk	8
Packing group	II
Special precautions for user	Not available.
ERG number	154

Some containers may be DOT exempt, please check BOL for exact container classification.

IATA

UN number	UN2927
UN proper shipping name	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (MIXTURE OF 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-4-ISOTHIAZOLIN-3-ONE, 2-BROMO-2-NITROPROPANE-1,3-DIOL)
Transport hazard class(es)	
Class	6.1
Subsidiary risk	8
Packing group	II
Environmental hazards	Yes
Special precautions for user	Not available.

IMDG

UN number	UN2927
UN proper shipping name	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (MIXTURE OF 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-4-ISOTHIAZOLIN-3-ONE, 2-BROMO-2-NITROPROPANE-1,3-DIOL), MARINE POLLUTANT
Transport hazard class(es)	
Class	6.1
Subsidiary risk	8
Packing group	II
Environmental hazards	
Marine pollutant	Yes
EmS	Not available.
Special precautions for user	Not available.

TDG

UN number	UN2927
UN proper shipping name	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (MIXTURE OF 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-4-ISOTHIAZOLIN-3-ONE, 2-BROMO-2-NITROPROPANE-1,3-DIOL)
Hazard class	6.1
Subsidiary hazard class	8
Packing group	II
ERG code	154

DOT





IATA; IMDG





TDG





Marine pollutant



15. Regulatory Information

US federal regulations This is an EPA registered biocide and is exempt from TSCA inventory requirements. See FIFRA registry number.

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Spill: Reportable quantity

Sulphuric acid (CAS 7664-93-9)	1000 LBS

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Substance: Threshold Planning Quantity

Sulphuric acid (CAS 7664-93-9)	1000 LBS

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Magnesium nitrate (CAS 10377-60-3)	1.0 % N511
Sulphuric acid (CAS 7664-93-9)	1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Magnesium nitrate (CAS 10377-60-3)	Listed. N511
Sulphuric acid (CAS 7664-93-9)	Listed.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA (Superfund) reportable quantity, lbs

Sulphuric acid: 1000 lbs

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Sulphuric acid	7664-93-9	1000	1000 lbs		

SARA 311/312 Hazardous chemical No

Clean Water Act (CWA) Hazardous substance

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

FIFRA registration number 3876-151

TSCA This is an EPA registered biocide and is exempt from TSCA inventory requirements.

Food and drug administration 21 CFR 176.300 & 176.170 (slimicides and as a preservative)

NSF Registered and/or meets USDA (according to 1998 guidelines):
Registration No. – 141064
Category Code(s):
G5 Cooling and retort water treatment products
G7 Boiler, steam line treatment products – nonfood contact

State regulations

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Sulphuric acid (CAS 7664-93-9) Listed: March 14, 2003 Carcinogenic.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

No ingredient listed.

US - Massachusetts RTK - Substance List

Magnesium nitrate (CAS 10377-60-3)
Sulphuric acid (CAS 7664-93-9)

US - New Jersey RTK - Substances: Listed substance

Magnesium nitrate (CAS 10377-60-3) Listed.
Sulphuric acid (CAS 7664-93-9) Listed.

US - Pennsylvania RTK - Hazardous Substances

Magnesium nitrate (CAS 10377-60-3) Listed.
Sulphuric acid (CAS 7664-93-9) Listed.

US - Rhode Island RTK

Magnesium nitrate (CAS 10377-60-3)
Sulphuric acid (CAS 7664-93-9)

16. Other Information

List of abbreviations	CAS: Chemical Abstract Service Registration Number TWA: Time Weighted Average STEL: Short Term Exposure Limit LD50: Lethal Dose, 50% LC50: Lethal Concentration, 50% NOEL: No Observed Effect Level COD: Chemical Oxygen Demand BOD: Biochemical Oxygen Demand TOC: Total Organic Carbon IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods Code NFPA: National Fire Protection Association ACGIH: American Conference of Governmental Industrial Hygienists TSRN indicates a Trade Secret Registry Number is used in place of the CAS number.
HMIS® ratings	Health: 3 Flammability: 0 Physical hazard: 0 Personal protection: D
NFPA ratings	Health: 3 Flammability: 0 Instability: 0 Special hazards: CORR
This data sheet contains changes from the previous version in section(s):	This document has undergone significant changes and should be reviewed in its entirety.
Prepared by	This MSDS has been prepared by GE Water & Process Technologies Regulatory Department (1-215-355-3300).

* Trademark of General Electric Company. May be registered in one or more countries.

GE
Water & Process Technologies

Material Safety Data Sheet

Issue Date: 28-JUL-2011
Supercedes: 24-MAY-2011

CORRSHIELD NT4207

1 Identification

Identification of substance or preparation
CORRSHIELD NT4207

Product Application Area
Corrosion inhibitor.

Company/Undertaking Identification
GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355-3300, F 215 953 5524

Emergency Telephone
(800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300 Prepared on: 28-JUL-2011

2 Hazard(s) identification

****
EMERGENCY OVERVIEW

WARNING

May cause moderate irritation to the skin. Severe irritant to the eyes. Mists/aerosols cause irritation to the upper respiratory tract.

DOT hazard: Toxic Liquid, RQ
Odor: Slight; Appearance: Yellow, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: Flood with water. Use of CO2 or foam may not be effective.
****

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:
Primary route of exposure; May cause moderate irritation to the skin.

ACUTE EYE EFFECTS:
Severe irritant to the eyes.

ACUTE RESPIRATORY EFFECTS:
Mists/aerosols cause irritation to the upper respiratory tract.

INGESTION EFFECTS:
Toxic;
May cause gastrointestinal irritation with possible nausea, vomiting, headache, dizziness, unconsciousness and injury to the kidneys and liver.

TARGET ORGANS:
Prolonged or repeated exposures may cause CNS depression and/or toxicity to the liver, kidney, and blood system.

MEDICAL CONDITIONS AGGRAVATED:
Not known.

SYMPTOMS OF EXPOSURE:
May cause redness or itching of skin.

3 Composition / information on ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

Cas#	Chemical Name	Range(w/w%)
7632-00-0	SODIUM NITRITE Oxidizer; toxic (by ingestion); potential blood toxin	15-40
12179-04-3	BORIC ACID, DISODIUM SALT, PENTAHYDRATE Eye, skin and respiratory tract irritant	1-5

4 First-aid measures

SKIN CONTACT:
Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. Get medical attention if irritation develops or persists.
EYE CONTACT:
Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.
INHALATION:
If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.
INGESTION:
Do not feed anything by mouth to an unconscious or convulsive victim. Dilute contents of stomach. Induce vomiting by one of the standard methods. Immediately contact a physician.
NOTES TO PHYSICIANS:
No special instructions

5 Fire-fighting measures

FIRE FIGHTING INSTRUCTIONS:
Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
EXTINGUISHING MEDIA:
Flood with water. Use of CO2 or foam may not be effective.
HAZARDOUS DECOMPOSITION PRODUCTS:
oxides of boron, carbon and nitrogen
FLASH POINT:
> 200F > 93C P-M(CC)
MISCELLANEOUS:
Toxic Liquid, RQ
UN 3287;Emergency Response Guide #151

6 Accidental release measures

PROTECTION AND SPILL CONTAINMENT:
Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.
DISPOSAL INSTRUCTIONS:
Water contaminated with this product may be sent to a sanitary sewer treatment facility,in accordance with any local agreement,a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7 Handling and storage

HANDLING:
Contains an oxidizer. Avoid all contact with reducing agents, oils, greases, organics and acids. Do not allow to dry.
STORAGE:
Keep containers closed when not in use. Protect from freezing.

8 Exposure controls / personal protection

EXPOSURE LIMITS
CHEMICAL NAME

SODIUM NITRITE
PEL (OSHA): LIMITS HAVE NOT BEEN ESTABLISHED BY US OSHA.
TLV (ACGIH): LIMITS HAVE NOT BEEN ESTABLISHED BY ACGIH.

BORIC ACID, DISODIUM SALT, PENTAHYDRATE
PEL (OSHA): LIMITS HAVE NOT BEEN ESTABLISHED BY US OSHA.
TLV (ACGIH): TWA = 2 MG/M3; STEL = 6 MG/M3; A4 (As Borate compounds, Inorganic)

ENGINEERING CONTROLS:
Adequate ventilation to maintain air contaminants below exposure limits.
PERSONAL PROTECTIVE EQUIPMENT:
Use protective equipment in accordance with 29CFR 1910 Subpart I
RESPIRATORY PROTECTION:
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.

USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.
If air-purifying respirator use is appropriate, use any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.

SKIN PROTECTION:
rubber, butyl, viton or neoprene gloves -- Wash off after each use. Replace as necessary.

EYE PROTECTION:
splash proof chemical goggles

9 Physical and chemical properties

Spec. Grav.(70F,21C)	1.250	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	< < 0	Vapor Density (air=1)	< 1.00
Freeze Point (C)	< -18		
Viscosity(cps 70F,21C)	12	% Solubility (water)	100.0

Odor		Slight
Appearance		Yellow
Physical State		Liquid
Flash Point	P-M(CC)	> 200F > 93C
pH As Is (approx.)		11.6
Evaporation Rate (Ether=1)		< 1.00
Percent VOC:		0.0

NA = not applicable ND = not determined

10 Stability and reactivity

CHEMICAL STABILITY:
Stable under normal storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:
No known hazardous reactions.

INCOMPATIBILITIES:
May react with organics or reducing agents.

DECOMPOSITION PRODUCTS:
oxides of boron, carbon and nitrogen

11 Toxicological information

Oral LD50 RAT:	~275 mg/kg
NOTE - Estimated value	
Dermal LD50 RABBIT:	>5,000 mg/kg
NOTE - Estimated value	

12 Ecological information

AQUATIC TOXICOLOGY

Ceriodaphnia 48 Hour Static Renewal Bioassay
LC50= 61; No Effect Level= 15.6 mg/L

Daphnia magna 48 Hour Static Renewal Bioassay pH of test solutions was adjusted to a level of 6-9.

LC50= 100; No Effect Level= 38 mg/L
Fathead Minnow 96 Hour Static Renewal Bioassay
LC50= 1072; No Effect Level= 500 mg/L
Rainbow Trout 96 Hour Static Acute Bioassay
LC50= 180; No Effect Level= 100 mg/L

BIODEGRADATION
BOD-28 (mg/g): 1
BOD-5 (mg/g): 0
COD (mg/g): 79
TOC (mg/g): 4

13 Disposal considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14 Transport information

Transportation Hazard: Toxic Liquid, RQ
DOT: TOXIC LIQUID, INORGANIC, N.O.S.(SODIUM NITRITE SOLUTION) 6.1, UN 3287, PG III RQ
DOT EMERGENCY RESPONSE GUIDE #: 151
Note: Some containers may be DOT exempt, please check BOL for exact container classification
IATA: TOXIC LIQUID, INORGANIC, N.O.S.(SODIUM NITRITE SOLUTION) 6.1, UN3287, PG III
IMDG: TOXIC LIQUID, INORGANIC, N.O.S.(SODIUM NITRITE SOLUTION) 6.1, UN 3287, PG III

15 Regulatory information

TSCA:
All components of this product are included on or are in compliance with the U.S. TSCA regulations.
CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):
32 gallons due to SODIUM NITRITE;
NSF Registered and/or meets USDA (according to 1998 Guidelines):
Registration number: 144579
Category Code(s):
G10 Boiler treatment products - all food processing areas except meat and poultry/nonfood contact
G8 Cooling and retort water treatment products - all food processing areas except meat and poultry
SARA SECTION 312 HAZARD CLASS:
Immediate(acute);Delayed(Chronic)
SARA SECTION 302 CHEMICALS:
No regulated constituent present at OSHA thresholds
SARA SECTION 313 CHEMICALS:

CAS#	CHEMICAL NAME	RANGE
7632-00-0	SODIUM NITRITE	21.0-30.0%

CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):

No regulated constituents present

MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16 Other information

HMIS vII		**CODE TRANSLATION**
Health	2	Moderate Hazard
Fire	0	Minimal Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles,Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	09-JAN-1998		** NEW **
	16-NOV-2001	15	09-JAN-1998
	09-OCT-2002	12	16-NOV-2001
	21-MAR-2005	12	09-OCT-2002
	16-MAY-2006	10	21-MAR-2005
	03-AUG-2007	5,8,10	16-MAY-2006
	11-SEP-2008	3,8	03-AUG-2007
	23-JUN-2009	10	11-SEP-2008
	24-MAY-2011	15	23-JUN-2009
	28-JUL-2011	15	24-MAY-2011

GE Power & Water
Water & Process Technologies

SAFETY DATA SHEET

BETZ* MPH5000

1. Product and Company Identification

Material name	**BETZ MPH5000**
Version #	1.1
Revision date	12/05/2014
Supersedes date	06/05/2011
Chemical description	Solution of organic complexant (citric acid)
CAS #	Mixture
Product application	Membrane cleaner

Company/undertaking identification

GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355 3300, F 215 953 5524

Emergency telephone

(800) 877 1940

2. Hazards Identification

Emergency overview

WARNING

Irritating to eyes. May cause slight irritation to the skin.

Potential health effects

Eyes	Irritating to eyes.
Inhalation	Mists/aerosols cause irritation to the upper respiratory tract
Ingestion	May cause slight gastrointestinal irritation.

Medical conditions aggravated by exposure: None known.

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
Citric acid	77-92-9	40 - 60

Non-hazardous components	CAS #
Water	7732-18-5

Composition comments: Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

4. First Aid Measures

First aid procedures

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Keep eyelids apart. Get medical attention immediately.

Skin contact	Wash immediately with plenty of water. If irritation persists, seek medical advice.
Inhalation	Move to fresh air. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Get medical attention immediately.
Ingestion	Rinse mouth. Do not feed anything by mouth to an unconscious or convulsive victim. Do NOT induce vomiting! Immediately contact a physician. Dilute contents of stomach using 2-8 fluid ounces (60-240ml) of milk or water.
Notes to physician	No special instructions.

5. Fire Fighting Measures

Extinguishing media	
Suitable extinguishing media	Carbon dioxide, dry chemicals, foam, water spray (fog).
Protection of firefighters	
Specific hazards arising from the chemical	Oxides of carbon evolved in fire.
Fire fighting equipment/instructions	Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

6. Accidental Release Measures

Personal precautions	Wear protective clothing, gloves and safety goggles.
Environmental precautions	Prevent from entering sewers or the immediate environment. Accidental release of large quantities into the aquatic environment may harm aquatic organisms.
Methods for cleaning up	Ventilate the area. Soak up with inert absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.

7. Handling and Storage

Handling	Acidic. Do not mix with alkaline material. Normal chemical handling.
Storage	Store in dry, cool, well ventilated area. Store containers closed when not in use.

8. Exposure Controls / Personal Protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Engineering controls	Provide adequate ventilation.
Personal protective equipment	
Eye / face protection	Splash proof chemical goggles.
Skin protection	Rubber, butyl, viton or neoprene gloves. Wash off after each use. Replace as necessary.
Respiratory protection	A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE. If air-purifying respirator use is appropriate, use any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.

9. Physical & Chemical Properties

Appearance	
Physical state	Liquid
Color	Colorless
Odor	Mild
Odor threshold	Not available.
pH (concentrated product)	2
Vapor pressure	18 mm Hg
Vapor pressure temp.	70 °F (21 °C)
Vapor density	< 1 (Air = 1)
Boiling point	225 °F (107 °C)
Melting point/Freezing point	20 °F (-7 °C)
Solubility (water)	100 %
Specific gravity (70°F, 21°C)	1.24
Flash point	> 212 °F (> 100 °C) P-M(CC)

Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.
Evaporation rate	< 1 (Ether = 1)
Viscosity temperature	70 °F (21 °C)
Percent volatile	0 (Calculated)
Pour point	25 °F (-4 °C)

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Avoid contact with strong oxidizers. Avoid contact with strong bases.
Incompatible materials	Strong oxidizing substances. Avoid contact with strong bases.
Hazardous decomposition products	Oxides of carbon evolved in fire.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Product	**Species**	**Test Results**
BETZ MPH5000 (CAS Mixture)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, (Calculated according to GHS additivity formula)
Inhalation		
LC50	Rat	> 20 mg/l, 4 Hour, (Calculated according to GHS additivity formula)
Oral		
LD50	Rat	> 2000 mg/kg, (Calculated according to GHS additivity formula)

Components	**Species**	**Test Results**
Citric acid (CAS 77-92-9)		
Acute		
Oral		
LD50	Rat	5040 mg/kg

Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Skin corrosion/irritation Causes skin irritation.

12. Ecological Information

Ecotoxicity	No data available
Ecotoxicity	No data available

Persistence and degradability

No data available

13. Disposal Considerations

Disposal instructions According to Hazardous Waste Regulations.

Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

Contaminated packaging	According to Hazardous Waste Regulations. Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

14. Transport Information

DOT

UN number	UN3265
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS CITRIC ACID)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Special precautions for user	Not available.
ERG number	153

Some containers may be DOT exempt, please check BOL for exact container classification.

IATA

UN number	UN3265
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS CITRIC ACID)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Environmental hazards	No.
Special precautions for user	Not available.

IMDG

UN number	UN3265
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS CITRIC ACID)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	No.
EmS	Not available.
Special precautions for user	Not available.

TDG

UN number	UN3265
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS CITRIC ACID)
Hazard class	8
Packing group	III
ERG code	153

DOT



IATA; IMDG; TDG



15. Regulatory Information

US federal regulations

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

None listed.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA (Superfund) reportable quantity, lbs

None listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical	No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

State regulations

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

No ingredient listed.

US - Massachusetts RTK - Substance List

Not regulated.

US - Pennsylvania RTK - Hazardous Substances

Not regulated.

US - Rhode Island RTK

Not regulated.

16. Other Information

List of abbreviations	CAS: Chemical Abstract Service Registration Number TWA: Time Weighted Average STEL: Short Term Exposure Limit LD50: Lethal Dose, 50% LC50: Lethal Concentration, 50% NOEL: No Observed Effect Level COD: Chemical Oxygen Demand BOD: Biochemical Oxygen Demand TOC: Total Organic Carbon IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods Code TSRN indicates a Trade Secret Registry Number is used in place of the CAS number. ACGIH: American Conference of Governmental Industrial Hygienists NFPA: National Fire Protection Association
HMIS® ratings	Health: 2 Flammability: 0 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 2 Flammability: 0 Instability: 0 Special hazards: ACID
This data sheet contains changes from the previous version in section(s):	Product and Company Identification: Commercial Names Physical & Chemical Properties: Multiple Properties Regulatory Information: United States
Prepared by	This MSDS has been prepared by GE Water & Process Technologies Regulatory Department (1-215-355-3300).

* Trademark of General Electric Company. May be registered in one or more countries.

GE
Water & Process Technologies

Material Safety Data Sheet

Issue Date: 03-NOV-2011
Supercedes: 23-OCT-2008

HYPERSPERSE MDC220

1 Identification

Identification of substance or preparation
HYPERSPERSE MDC220

Product Application Area
Reverse osmosis antiscalant

Company/Undertaking Identification
GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355-3300, F 215 953 5524

Emergency Telephone
(800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300 Prepared on: 03-NOV-2011

2 Hazard(s) identification

****
EMERGENCY OVERVIEW

CAUTION

May cause slight irritation to the skin. May cause moderate irritation to the eyes. Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard is not applicable
Odor: Mild; Appearance: Light Yellow To Amber, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water
****

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:
Primary route of exposure; May cause slight irritation to the skin.

ACUTE EYE EFFECTS:
May cause moderate irritation to the eyes.

ACUTE RESPIRATORY EFFECTS:
Mists/aerosols may cause irritation to upper respiratory tract.

INGESTION EFFECTS:
May cause slight gastrointestinal irritation.

TARGET ORGANS:
No evidence of potential chronic effects.

MEDICAL CONDITIONS AGGRAVATED:
Not known.

SYMPTOMS OF EXPOSURE:
May cause redness or itching of skin.

3 Composition / information on ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

Cas#	Chemical Name	Range(w/w%)
29329-71-3	PHOSPHONIC ACID, (1-HYDROXYETHYLIDENE)BIS-, SODIUM SALT Eye irritant; slight skin irritant	10-20

4 First-aid measures

SKIN CONTACT:
Wash thoroughly with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

EYE CONTACT:
Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

INHALATION:
If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.

INGESTION:
Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 3-4 glasses milk or water.

NOTES TO PHYSICIANS:
No special instructions

5 Fire-fighting measures

FIRE FIGHTING INSTRUCTIONS:
Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
EXTINGUISHING MEDIA:
dry chemical, carbon dioxide, foam or water
HAZARDOUS DECOMPOSITION PRODUCTS:
elemental oxides
FLASH POINT:
> 200F > 93C P-M(CC)

6 Accidental release measures

PROTECTION AND SPILL CONTAINMENT:
Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.
DISPOSAL INSTRUCTIONS:
Water contaminated with this product may be sent to a sanitary sewer treatment facility,in accordance with any local agreement,a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7 Handling and storage

HANDLING:
Normal chemical handling.
STORAGE:
Keep containers closed when not in use. Protect from freezing. Do not store at elevated temperatures. Use proper containers.

8 Exposure controls / personal protection

EXPOSURE LIMITS

CHEMICAL NAME

PHOSPHONIC ACID, (1-HYDROXYETHYLIDENE)BIS-, SODIUM SALT
PEL (OSHA): LIMITS HAVE NOT BEEN ESTABLISHED BY US OSHA.
TLV (ACGIH): LIMITS HAVE NOT BEEN ESTABLISHED BY ACGIH.

ENGINEERING CONTROLS:
adequate ventilation
PERSONAL PROTECTIVE EQUIPMENT:
Use protective equipment in accordance with 29CFR 1910 Subpart I
RESPIRATORY PROTECTION:
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.
USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.
If air-purifying respirator use is appropriate, use a respirator with dust/mist filters.
SKIN PROTECTION:
neoprene gloves-- Wash off after each use. Replace as necessary.
EYE PROTECTION:
splash proof chemical goggles

9 Physical and chemical properties

Spec. Grav.(70F,21C)	1.169	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	25	Vapor Density (air=1)	< 1.00
Freeze Point (C)	-4		
Viscosity(cps 70F,21C)	14	% Solubility (water)	100.0

Odor		Mild
Appearance		Light Yellow To Amber
Physical State		Liquid
Flash Point	P-M(CC)	> 200F > 93C
pH As Is (approx.)		2.4
Evaporation Rate (Ether=1)		< 1.00
Percent VOC:		0.0

NA = not applicable ND = not determined

10 Stability and reactivity

CHEMICAL STABILITY:
Stable under normal storage conditions.
POSSIBILITY OF HAZARDOUS REACTIONS:

INCOMPATIBILITIES:
May react with strong oxidizers.
DECOMPOSITION PRODUCTS:
elemental oxides

11 Toxicological information

Oral LD50 RAT: 2740 mg/kg
NOTE - Calculated value according to GHS additivity formula
Dermal LD50 RABBIT: >5000 mg/kg
NOTE - Calculated value according to GHS additivity formula

12 Ecological information

AQUATIC TOXICOLOGY
Daphnia magna 48 Hour Acute Toxicity (Estimated)
LC50= 2700; No Effect Level= 1540 mg/L
Fathead Minnow 96 Hour Acute Toxicity (Estimated)
No Effect Level= 5000 mg/L

BIODEGRADATION
BOD-28 (mg/g): 1
BOD-5 (mg/g): 1
COD (mg/g): 116
TOC (mg/g): 26

13 Disposal considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14 Transport information

Transportation Hazard: Not Applicable
DOT: Not Regulated

DOT EMERGENCY RESPONSE GUIDE #: Not applicable
Note: Some containers may be DOT exempt, please check BOL for exact container classification
IATA: Not Regulated

IMDG: Not Regulated

15 Regulatory information

TSCA:
All components of this product are included on or are in compliance with the U.S. TSCA regulations.
CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):
No regulated constituent present at OSHA thresholds
NSF Registered and/or meets USDA (according to 1998 Guidelines):
Registration number: Not Registered
SARA SECTION 312 HAZARD CLASS:
Immediate(acute)
SARA SECTION 302 CHEMICALS:
No regulated constituent present at OSHA thresholds
SARA SECTION 313 CHEMICALS:
No regulated constituent present at OSHA thresholds
CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):
No regulated constituents present
MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16 Other information

HMIS vII		**CODE TRANSLATION**
Health	1	Slight Hazard
Fire	0	Minimal Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles,Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	21-SEP-1999		** NEW **
	07-JAN-2000	15	21-SEP-1999
	13-MAR-2000	2,4,8	07-JAN-2000
	09-JAN-2002	15	13-MAR-2000
	16-DEC-2002	2,7,8	09-JAN-2002
	25-SEP-2006	2;EDIT:15	16-DEC-2002
	12-JAN-2007	2,14	25-SEP-2006
	23-OCT-2008	3,8	12-JAN-2007
	03-NOV-2011	11	23-OCT-2008

GE Power & Water
Water & Process Technologies

SAFETY DATA SHEET

FLOGARD* POT807

1. Identification

Product identifier **FLOGARD POT807**

Other means of identification Not available.

Recommended use Corrosion inhibitor

Recommended restrictions None known.

Company/undertaking identification

GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355 3300, F 215 953 5524

Emergency telephone

(800) 877 1940

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes skin irritation. Causes serious eye damage. May cause respiratory irritation.

Precautionary statement

Prevention Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye/face protection.

Response If on skin: Wash with plenty of water/. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor/. Specific treatment (see on this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Phosphoric acid, tripotassium salt		7778-53-2	20 - 40
Tetrapotassium pyrophosphate		7320-34-5	10 - 20

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Composition comments Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this SDS for our assessment of the potential hazards of this formulation.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

Most important symptoms/effects, acute and delayed Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Do not get this material in contact with eyes. Avoid breathing mist or vapor. Avoid contact with skin. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use care in handling/storage.
Conditions for safe storage, including any incompatibilities	Do not freeze. Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Store in accordance with local/regional/national/international regulation.

8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection	Splash proof chemical goggles.
Skin protection	
Hand protection	Chemical resistant gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Glove selection must take into account any solvents and other hazards present.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece. A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Color	Colorless
Physical state	Liquid
Odor	Mild
Odor threshold	Not available.
pH (concentrated product)	7.2
pH in aqueous solution	7 (5% SOL.)
Melting point/freezing point	3 °F (-16 °C)
Initial boiling point and boiling range	220 °F (104 °C)
Flash point	> 200 °F (> 93 °C) P-M(CC)
Evaporation rate	< 1 (Ether = 1)
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	18 mm Hg
Vapor pressure temp.	70 °F (21 °C)
Vapor density	< 1 (Air = 1)

Relative density	1.44
Relative density temperature	70 °F (21 °C)
Solubility(ies)	
Solubility (water)	100 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	24 cps
Viscosity temperature	70 °F (21 °C)
Other information	
Percent volatile	0 (Estimated)
Pour point	8 °F (-13 °C)
Specific gravity	1.44

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Protect from freezing.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Elemental Oxides

11. Toxicological information

Information on likely routes of exposure

Ingestion	May cause gastrointestinal irritation.
Inhalation	May cause irritation to the respiratory system.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.
Symptoms related to the physical, chemical and toxicological characteristics	May cause redness and pain. May cause respiratory irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity May cause respiratory irritation.

Product	Species	Test Results
FLOGARD POT807 (CAS Mixture)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg, (Calculated according to GHS additivity formula)
Oral		
LD50	Rat	> 5000 mg/kg, (Calculated according to GHS additivity formula)

Components	Species	Test Results
Phosphoric acid, tripotassium salt (CAS 7778-53-2)		
Acute		
Dermal		
LD50	Rabbit	> 4640 mg/kg
Oral		
LD50	Rat	> 4640 mg/kg

Components	Species	Test Results
Tetrapotassium pyrophosphate (CAS 7320-34-5)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	2440 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure May cause respiratory irritation.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Based on available data, the classification criteria are not met. May be harmful if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test Results
FLOGARD POT807 (CAS Mixture)			
	LC50	Fathead Minnow	2110 mg/L, Static Renewal Bioassay, 96 hour
	NOEL	Fathead Minnow	1370 mg/L, Static Renewal Bioassay, 96 hour
Crustacea	LC50	Daphnia magna	1285 mg/L, Static Renewal Bioassay, 48 hour
	NOEL	Daphnia magna	892 mg/L, Static Renewal Bioassay, 48 hour

* Estimates for product may be based on additional component data not shown.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Environmental fate The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of this product.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

Some containers may be DOT exempt, please check BOL for exact container classification.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical: No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA): Not regulated.

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Food and drug administration	The ingredients in this product are Generally Recognized As Safe by FDA for direct addition to human food.
NSF Registered and/or meets USDA (according to 1998 guidelines):	Registration No. – 140831 Category Code(s): G5 Cooling and retort water treatment products G7 Boiler, steam line treatment products – nonfood contact
US state regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - Massachusetts RTK - Substance List

Not regulated.

US - Pennsylvania RTK - Hazardous Substances

Not regulated.

US - Rhode Island RTK

Not regulated.

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

No ingredient listed.

16. Other information, including date of preparation or last revision

Issue date	Dec-18-2014
Revision date	Dec-18-2014
Version #	1.0
List of abbreviations	CAS: Chemical Abstract Service Registration Number TSRN indicates a Trade Secret Registry Number is used in place of the CAS number. ACGIH: American Conference of Governmental Industrial Hygienists NOEL: No Observed Effect Level STEL: Short Term Exposure Limit LC50: Lethal Concentration, 50% TWA: Time Weighted Average BOD: Biochemical Oxygen Demand COD: Chemical Oxygen Demand TOC: Total Organic Carbon IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods Code TLV: Threshold Limit Value LD50: Lethal Dose, 50% NFPA: National Fire Protection Association
References:	No data available
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information in the sheet was written based on the best knowledge and experience currently available.
Revision Information	Product and Company Identification: Physical States Toxicological Information: Toxicological Data GHS: Classification

Prepared by	This SDS has been prepared by GE Water & Process Technologies Regulatory Department (1-215-355-3300).

* Trademark of General Electric Company. May be registered in one or more countries.

Sodium Hydroxide,1M

SECTION 1 : Identification of the substance/mixture and of the supplier

Product name : **Sodium Hydroxide,1M**

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: **S25549A**

Recommended uses of the product and uses restrictions on use:

Manufacturer Details:

AquaPhoenix Scientific
9 Barnhart Drive, Hanover, PA 17331

Supplier Details:

Fisher Science Education
15 Jet View Drive, Rochester, NY 14624

Emergency telephone number:

Fisher Science Education Emergency Telephone No.: 800-535-5053

SECTION 2 : Hazards identification

Classification of the substance or mixture:



Corrosive
Corrosive to metals, category 1
Skin corrosion, category 1B
Serious eye damage, category 1

Skin Corr. 1B
Eye corr. 1
Metal Corr. 1

Signal word :Danger

Hazard statements:
May be corrosive to metals
Causes severe skin burns and eye damage
Causes serious eye damage

Precautionary statements:
If medical advice is needed, have product container or label at hand
Keep out of reach of children
Read label before use
Keep only in original container
Wash ... thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapours/spray
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell
Immediately call a POISON CENTER or doctor/physician
Specific treatment (see supplemental first aid instructions on this label)

Absorb spillage to prevent material damage
Store in a corrosive resistant/... container with a resistant inner liner
Store locked up
Dispose of contents/container to ...

Other Non-GHS Classification:

WHMIS

E 

NFPA/HMIS



NFPA SCALE (0-4)



HMIS RATINGS (0-4)

SECTION 3 : Composition/information on ingredients

Ingredients:		
CAS 1310-73-2	Sodium Hydroxide	4 %
CAS 7732-18-5	Deionized Water	96 %
		Percentages are by weight

SECTION 4 : First aid measures

Description of first aid measures

After inhalation: Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position.Seek medical advice if discomfort or irritation persists.If breathing difficult, give oxygen.

After skin contact: Take off contaminated clothing and shoes immediately.Wash affected area with soap and water.Seek medical attention if irritation, discomfort persist.

After eye contact: Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Immediately get medical assistance.

After swallowing: Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.

Most important symptoms and effects, both acute and delayed:

Irritation, Nausea,Headache, Shortness of breath.;

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician.

SECTION 5 : Firefighting measures

Extinguishing media

Suitable extinguishing agents: If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

For safety reasons unsuitable extinguishing agents: Carbon dioxide.Carbon dioxide.

Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors.Thermal decomposition can lead to release of irritating gases and vapors.Sodium oxides.

Advice for firefighters:

Protective equipment: Use NIOSH-approved respiratory protection/breathing apparatus.

Additional information (precautions): Move product containers away from fire or keep cool with water spray as a protective measure, where feasible.

SECTION 6 : Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Transfer to a disposal or recovery container.Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation.Keep away from ignition sources. Protect from heat.

Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13

Methods and material for containment and cleaning up:

If in a laboratory setting, follow Chemical Hygiene Plan procedures.Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor.Collect liquid and dilute with water. Neutralize with dilute acid solutions. Decant water to drain with excess water. Absorb with suitable material. Dispose of remaining solid as normal refuse. Always obey local regulations.

Reference to other sections:

SECTION 7 : Handling and storage

Precautions for safe handling:

Absorb spillage to prevent material damage due to corrosiveness to metal. Avoid contact with eyes, skin, and clothing. Wash hands after handling. Do not mix with acids.Follow good hygiene procedures when handling chemical materials. Use only in well ventilated areas.

Conditions for safe storage, including any incompatibilities:

Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents.Store in cool, dry conditions in well sealed containers. Store with Corrosives.

SECTION 8 : Exposure controls/personal protection





Control Parameters: 1310-73-2, Sodium Hydroxide, OSHA PEL TWA 2 mg/m3
1310-73-2, Sodium Hydroxide, ACGIH TLV TWA 2 mg/m3

Appropriate Engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling.Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.Use under a chemical fume hood.

Respiratory protection: Use suitable respiratory protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable. Use under a chemical fume hood.

Protection of skin: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation being used/handled.Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Eye protection: Safety glasses with side shields or goggles.

General hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.

SECTION 9 : Physical and chemical properties

Appearance (physical state,color):	Clear, colorless liquid	**Explosion limit lower**: **Explosion limit upper**:	Non Explosive Non Explosive
Odor:	Odorless	**Vapor pressure**:	14mmHg @ 20C
Odor threshold:	Not Determined	**Vapor density**:	>1
pH-value:	13.3	**Relative density**:	Approx 1
Melting/Freezing point:	Approx 0°C	**Solubilities**:	Soluble in Water
Boiling point/Boiling range:	Approx 100°C	**Partition coefficient (n-octanol/water)**:	Not Determined
Flash point (closed cup):	Not Determined	**Auto/Self-ignition temperature**:	Not Determined
Evaporation rate:	Not Determined	**Decomposition temperature**:	Not Determined
Flammability (solid,gaseous):	Not Determined	**Viscosity**:	a. Kinematic:Not Determined b. Dynamic: Not Determined
Density: Not Determined			

SECTION 10 : Stability and reactivity

Reactivity: solution attacks metals such as aluminium, tin, lead and zinc Also generates heat on exposure to acids. Aqueous solutions react violently with acids.
Chemical stability: No decomposition if used and stored according to specifications.
Possible hazardous reactions:

Conditions to avoid: Incompatible materials, excess heat
Incompatible materials:acids, Organic materials, Chlorinated solvents, Aluminum, Phosphorus, Tin/tin oxides, Zinc
Hazardous decomposition products:sodium oxides, hydrogen

SECTION 11 : Toxicological information

Acute Toxicity: No additional information.		
Chronic Toxicity: No additional information.		
Corrosion Irritation:		
Ocular:	1310-73-2	Rabbit: Corrosive to eyes
Dermal:	1310-73-2	Rabbit: Causes Burns
Sensitization:		No additional information.
Single Target Organ (STOT):		No additional information.
Numerical Measures:		No additional information.
Carcinogenicity:		Not listed as a carcinogen: 1310-73-2
Mutagenicity:		No additional information.
Reproductive Toxicity:		No additional information.

SECTION 12 : Ecological information

Ecotoxicity Persistence and degradability: Readily degradable in the environment.
Bioaccumulative potential: Not Bioaccumulative.
Mobility in soil: -1.87 (water)
Other adverse effects:

SECTION 13 : Disposal considerations

Waste disposal recommendations:

Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water.It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.Neutralize with dilute acid solutions.

SECTION 14 : Transport information

UN-Number

1824

UN proper shipping name

Sodium hydroxide solution

Transport hazard class(es)



Class:
8 Corrosive substances

Packing group:II
Environmental hazard:
Transport in bulk:
Special precautions for user:

SECTION 15 : Regulatory information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

None of the ingredients is listed

SARA Section 313 (Specific toxic chemical listings):

None of the ingredients is listed

RCRA (hazardous waste code):

None of the ingredients is listed

TSCA (Toxic Substances Control Act):

All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

1310-73-2 Sodium Hydroxide 1000 lb

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

Chemicals known to cause developmental toxicity:

None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed

Canadian NPRI Ingredient Disclosure list (limit 1%):

1310-73-2 Sodium Hydroxide

SECTION 16 : Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.Note:. The responsibility to provide a safe workplace remains with the user.The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.The information contained herein is, to the best of our knowledge and belief, accurate.However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this

material.It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.
GHS Full Text Phrases:

Abbreviations and acronyms:
IMDG: International Maritime Code for Dangerous Goods
PNEC: Predicted No-Effect Concentration (REACH)
CFR: Code of Federal Regulations (USA)
SARA: Superfund Amendments and Reauthorization Act (USA)
RCRA: Resource Conservation and Recovery Act (USA)
TSCA: Toxic Substances Control Act (USA)
NPRI: National Pollutant Release Inventory (Canada)
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)

Effective date : 12.14.2014
Last updated : 03.25.2015

ATTACHMENT E

GROUNDWATER MONITORING DATA

March 18, 2025 Service Request No:E2500192

SPL, Inc.-Ana-lab
101 Ibex Lane
Broussard, LA 70518

Laboratory Results for: 2387193

Dear Project Manager,

Enclosed are the results of the sample(s) submitted to our laboratory March 07, 2025
For your reference, these analyses have been assigned our service request number **E2500192.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	ALS Environmental - Middletown	**Service Request No.:**	E2500192
Project:	3327439	**Date Received:**	03/07/25
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 03/07/25.

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2500103: Laboratory Control Spike / **Duplicate Laboratory Control Spike (LCS/DLCS)** samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

B flags – Method Blanks

The Method Blank EQ2500103-01 contained low levels of target compounds below the Method Reporting Limit (MRL). The associated compounds in the samples are flagged with 'B' flags where the sample result is less than ten times the level detected in the method blank.

One compound, OCDD, was above the MRL (CRQL). ALS/Houston follows the ***EPA National Functional Guidelines for CDDs and CDFs, September 2005,*** which states on page 31, "The concentration of OCDD/OCDF in the method blank must be <3x the CRQL (MRL.):"

K flags

EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.

Detection Limits

Detection limits are calculated for each analyte in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

The TEQ Summary results for each sample have been calculated by ALS/Houston to include:

- WHO-2005 TEFs, The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds (M. Van den Berg et al., Toxicological Sciences 93(2):223-241, 2006)
- Non-detected compounds are not included in the 'Total'
- The 1:1 and associated dilution have been combined into one TEQ Summary report
- EPA-89 TEFs, "Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxins and Dibenzofurans (CDDs and CDFs)", 1989 EPA Update (EPA/625/3-89/016, March 1989)

- WHO-1998 TEFs, for PCBs, PCDDs, 21 PCDFs for humans and wildlife. (M. Van den Berg, et al., Environ Health Perspect 106: 775-792, 1998)

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: SPL, Inc.-Ana-lab **Service Request:**E2500192
Project: 2387193

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2500192-001	2387193	3/6/2025	0920

Service Request Summary

Folder #: **E2500192**
Client Name: SPL, Inc.-Ana-lab
Project Name: 2387193
Project Number:

Report To:

SPL, Inc.-Ana-lab
101 Ibex Lane
Broussard, LA 70518
USA

Phone Number: 903-984-0551
Cell Number:
Fax Number: 903-984-5914
E-mail: kilgore.projectmanagement@spllabs.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MLUCIO
Date Received: 03/07/25
Internal Due Date: 3/28/2025
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

3 1000 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved
Location: EHRMS-WIC 9E
Pressure Gas:
NPDES

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS Dioxins Furans/1613B
E2500192-001	2387193	Water	03/06/25 0920	II

Service Request Summary

Folder #: **E2500192**
Client Name: SPL, Inc.-Ana-lab
Project Name: 2387193
Project Number:

Report To:

SPL, Inc.-Ana-lab
101 Ibex Lane
Broussard, LA 70518
USA

Phone Number: 903-984-0551
Cell Number:
Fax Number: 903-984-5914
E-mail: kilgore.projectmanagement@spllabs.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MLUCIO
Date Received: 03/07/25
Internal Due Date: 3/28/2025
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

3 1000 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved

Location: EHRMS-WIC 9E

Pressure Gas:

NPDES

Data Qualifiers

HRMS Qualifier Set

*	Indicates the samples were extracted outside of the recommended holding time.
B	Indicates the associated analyte was found in the method blank at >1/10th the reported value.
E	Estimated value. The reported concentration is above the calibration range of the instrument.
J	Estimated value. The reported concentration is below the MRL.
K	The ion abundance ratio between the primary and secondary ions were outside of theoretical acceptance limits.The concentration of this analyte should be considered as an estimate.
P	Chlorodiphenyl ether interference was present at the retention time of the target analyte. Reported result should be considered an estimate.
Q	Monitored lock-mass indicates matrix-interference. Reported result is estimated.
S	Signal saturated detector. Result reported from dilution.
U	Compound was analyzed for, but was not detected (ND).
X	See Case Narrative.
Y	Isotopically Labeled Standard recovery outside of acceptance limits. In all cases, the signal-to-nois ratios are greater than 10:1, making the recoveries acceptable.
i	The MDL/MRL have been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Hawaii Department of Health	2024	4/30/2025
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441	6/30/2025
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025

ALS ENVIRONMENTAL – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID: E2500192 | DB-5MSUI | SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date:	Analyst:	Samples:
03/17/25	LKL	001

Second Level - Data Review – to be filled by person doing peer review

Date:	Analyst:	Samples:
03/17/25	RT	001

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

E2500192 5
SPL, Inc.-Ana-lab
2387193

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

SPL The Science of Sure

SUBCONTRACT CHAIN OF CUSTODY

Printed 03/06/2025 Page 1 of 1

Subcontract to:

ALS Laboratory Group/Houstor
10450 Stancliff Rd
Houston TX 77099

/ -

Sample	2387193
Taken:	03/06/2025 09:20:00
	COMPOSITE
Normal TAT	

coll_temp

BT TPDES Permit Comp

COMP 3/5 1020-3/6 0920

#1 Autosampler # 7240 Bottle # 001501
Sample poured Date: 3/6/25 Time: 1030
#2 Autosampler # 6359 Bottle # 001500
Sample poured Date: 3/6/25 Time: 1030

1 Amber Glass Liter w/Teflon lined lid

Requested Test(s)

!DIX Dioxins and Furans Subcontract 1613

Shipping Temp 4C

Previous Results:

Date Time	Relinquished	Date Time	Received
03/06/2025 15:31	Affiliation SPL Kilgore	03/06/2025 15:31	Affiliation SPL Kilgore
	Printed Name McCabe Wheeler		Printed Name Michael D. Gribble
	Signature		Signature Michael D Gribble
3/6/25	Printed Name Michael D. Gribble Affiliation SPL Kilgore		Printed Name Affiliation
	Signature Michael D Gribble		Signature
	Printed Name P. Gina Affiliation		Printed Name Affiliation
	Signature 3/7/25 10:38		Signature
	Printed Name Affiliation		Printed Name Affiliation
	Signature		Signature

Sample Received on Ice? Yes No
Cooler/Sample Secure? Yes No

Method of Shipment: UPS Bus FedEx Lone Star Hand Delivered Ot

If Shipped: Tracking Number & Temp - See Attached

Hand Delivered to Region

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http:// www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments FOAM UC-0 1.4 #34 cli-0.0.

Project 1138739

Corporate - Kilgore: 2600 Dudley Road Kilgore TX

Kilgore.ProjectManagement@spllabs.com

Form rptSampleSUBNSPL Created 11/16/2

ORIGIN ID:SWOA (405) 372-5300
DANNY CHANCE
ACCURATE ENVIRONMENTAL LLC
505 S LOWRY

STILLWATER, OK 74074
UNITED STATES US

SHIP DATE: 06MAR25
ACTWGT: 13.44 LB
CAD: 253339560/WSXI3600
DIMS: 10x10x12 IN

BILL SENDER

TO **RECEIVING DEPARTMENT**
ALS LAB GROUP USA
10450 STANCLIFF RD
STE 210
HOUSTON TX 77099
(281) 530-5656 REF:
INV:
PO: DEPT:

58CJ207B9/C6C4

FedEx Express

J2510241217011uv

FRI - 07 MAR 5:00P
STANDARD OVERNIGHT

TRK# 0201 **2861 5664 2352**

XS SGRA

77099
TX-US **IAH**

E2500192
SPL, Inc.-Ana-lab
2387193

5

10450 Stancliff Road, Suite 210
Houston, TX 77099
T: +1 281 530 5656
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www.alsglobal.com

Client: SPL Date: 3.7.25 WO#:

Time Received: 10:38 Received by: PG BO#:

Matrices: Solid/Sludge Water Oil Wipes Hydrocarbon Liquid Other

Kit ID/Cooler ID	Trip Blank ID	Cooler Temp (C) Observed/Corrected	IR #	Temp BLK Present?
Foam	—	1.4 / 1.4	34	Y N
		/		Y N
		/		Y N
		/		Y N
		/		Y N

Delivery Method: FedEx UPS Greyhound ALS Client Other

Date/Time of Unpacking: 3.8.25 12:00 Unpacked by: MC

Shipping container/cooler in good condition?	Yes	No	Not Present
Custody seals intact on shipping container/cooler?	Yes	No	Not Present
Custody seals intact on sample bottles?	Yes	No	Not Present
Chain of Custody present?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of Custody - Sampler's name present?	Yes	No	
Chain of Custody agrees with sample labels?	Yes	No	
Samples in proper container/bottle?	Yes	No	
VOA/TX1005/1006 Solids in hermetically Sealed Vials:	Yes	No	No VOA/TX1005/1006 Solid
Sample containers intact?	Yes	No	
Sufficient sample volume for indicated test?	Yes	No	
All samples received within holding time?	Yes	No	
Container/Temp Blank temperature in compliance?	Yes	No	
Water - VOA vials have zero headspace?	Yes	No	N/A No VOA submitted
Non-VOA waters preserved with HCl, H2SO4, HNO3 are pH <2?			Yes No N/A
Waters preserved with NaOH/Ascorbic acid are pH>12?	Yes	No	N/A
pH adjusted?	Yes*	No	N/A *See Preservation Logbook

pH adjusted by: _____ **pH Paper Lot:** _____

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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 453683 **Prep WorkFlow:** OrgExtAq(365) **Status:** Draft
Team: Semivoa GCMS/TWOODS **Prep Method:** **Prep Date/Time:** 3/11/25 01:55 PM

#	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext.	pH	Cl	I	M	C	Sample Description
1	E2500167-001	Q4 2024 LOQ 5 pg/L (P5)	.01		1613B / Dioxins Furans	Water	1000	5	X				50 ul
2	E2500167-002	Q4 2024 LOD 3 pg/L (P5)	.01		1613B / Dioxins Furans	Water	1000	5					30 ul
3	E2500167-003	Q4 2024 LOQ 5 pg/L	.02		1613 / 16130 Dioxins/Furans	Water	1000	5					50 ul
4	E2500167-004	Q4 2024 LOD 3 pg/L	.02		1613 / 16130 Dioxins/Furans	Water	1000	5					30 ul
5	E2500167-009	Q4 2024 LOQ 5 pg/L (P6)	.01		1613B / Dioxins Furans	Water	1000	5					50 ul
6	E2500167-010	Q4 2024 LOD 3 pg/L (P6)	.01		1613B / Dioxins Furans	Water	1000	5					30 ul
7	E2500186-001	VT-680	.01		1613B / Dioxin Furans Unadjusted MRL	Water	1073	10/7					1587 murky 514
8	E2500186-002	EDC Process	.01		1613B / Dioxin Furans Unadjusted MRL	Water	1093	14/6					1614 tint 521
9	E2500186-003	TZT-07	.01		1613B / Dioxin Furans Unadjusted MRL	Water	1011	7					1492 Clear 481
10	E2500186-004	Biological @Sump PH	.01		1613B / Dioxin Furans Unadjusted MRL-	Water	996	7					1478 tint yellow 482
11	E2500186-005	Physical @ Sump PH Probe	.01		1613B / Dioxin Furans Unadjusted MRL	Water	1017	6					1498 ↓ 481
12	E2500191-001	HC05114-01	.01		1613B / Dioxins Furans	Water	994	6					1475 murky 481
13	E2500192-001	2387193	.01		1613B / Dioxins Furans	Water	1028	6					1478 clear 450
14	E2500194-001	2524 Edwards RD	.01		1613B / Dioxins Furans	Drinking Water	1046	6					1491 clear 445
15	E2500194-002	2283 Brewer RD	.01		1613B / Dioxins Furans	Drinking Water	1013	6					1455 light yellow 442
16	E2500194-003	2461 Edwards RD	.01		1613B / Dioxins Furans	Drinking Water	947	6					1389 clear 442
17	E2500199-001	OD-007 REXTAC			1613B / Dioxins Furans	Wastewater	1018	7					1514 yellow 496
18	EQ2500103-01	MB			1613B / Dioxins Furans	Liquid	1000	5					
19	EQ2500103-02	LCS			1613B / Dioxins Furans	Liquid	1000	5					
20	EQ2500103-03	DLCS			1613B / Dioxins Furans	Liquid	1000	5					

I: 1613 LLCS 240536 @ 1000 ul @ 2-4 ng/ml
M: 1613 MWS 240452 @ 100 ul @ 2-20 ng/ml
C: 1613 CWS 240551 @ 1000 ul
1613 MDL LOQ LOD 239480

Supplementary Analytical Record

General Information:

Batch Number: 103
Prep. Run Number: 453683
Method: 1613B
Matrix: Liquid
Apparatus Used: Lg. Soxhlets | Small Soxhlets | Half-Gallon Jars | 250 mL Jars

Extraction

Hexane Lot #: 240233
Dichloromethane Lot #: 239815
Toluene Lot #: 239427
Tridecane Lot #: 239604
Methanol Lot #:
Corn Oil Lot #:
Balance Serial Number: HRMS-01
Rotovaps: Rotovap 1 ( ) or Rotovap 2 ( ) Analyst:

Chlorine Strips Lot #: 235876
pH Strips Lot #: 240082
Sodium Sulfate Lot #: 235888
Acid Lot#:
Sodium Thiosulfate Lot#:
Resin Lot #:
Ottawa Sand ID:

Acid Clean-Up

Sulfuric Acid Lot#: N/A
Sodium Chloride Lot #:

Column Clean-Up

Hexane Lot #: 240233
Dichloromethane Lot#: 239815
Toluene Lot #: 239427
Ethyl Acetate Lot #: 228820
Glass Wool Lot #: 239605
Balance Serial Number: HRMS-01

NaOH Silica Gel ID: 226220-62
H2SO4 Silica Gel ID: 226220-64
Silica Gel Lot #: 236763
Carbon Lot #: 236342
Sodium Hydroxide Lot #:
Sulfuric Acid Lot #:
Sodium Sulfate Lot #: 235888

Additional Notes:

Step-Time Processing:

Extraction: 3/11/25
Spike Time 12:00 PM Start Time 2:00
Acid Clean-Up: 3/12/25 11:10 12:00 PM
Column Clean-Up: ------NA---- 12 to 3:00 PM
Final Volume: 3/13/25 9:10 to 12:00 PM

Soxhlet:

Date/Time Up:
Date/Time Down:

Abbreviation Key:

Bench Sheet:

B#: LIMS bottle number
V: Chlorine Check (X = False)
I: Internal Standard Witness (initials)
M: Matrix Witness (initials)
C: Cleanup Standard Witness (initials)

STD Tracking:

I: Internal Spike (LIMS ID; Name; Conc; Initials)
M: Matrix Spike (LIMS ID; Name; Conc; Initials)
C: Cleanup Spike (LIMS ID; Name; Conc; Initials)

*Where additional standards are added to the sample, distinctions are made using unique symbols to indicate which standards are added to which samples.

Analytical Results

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Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	03/06/25 09:20
Sample Matrix:	Water	**Date Received:**	03/07/25 10:38
Sample Name:	2387193	**Units:**	pg/L
Lab Code:	E2500192-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/14/25 12:59
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1028mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551833	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551829

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	1.13	4.86			1
1,2,3,7,8-PeCDD	ND	U	0.575	24.3			1
1,2,3,4,7,8-HxCDD	1.43**BJK**		0.274	24.3	0.89	1.000	1
1,2,3,6,7,8-HxCDD	ND	U	0.256	24.3			1
1,2,3,7,8,9-HxCDD	ND	U	0.258	24.3			1
1,2,3,4,6,7,8-HpCDD	1.37**BJ**		0.152	24.3	0.88	1.000	1
OCDD	10.5**BJ**		0.664	48.6	0.97	1.000	1
2,3,7,8-TCDF	ND	U	0.885	4.86			1
1,2,3,7,8-PeCDF	ND	U	0.565	24.3			1
2,3,4,7,8-PeCDF	ND	U	0.516	24.3			1
1,2,3,4,7,8-HxCDF	ND	U	0.164	24.3			1
1,2,3,6,7,8-HxCDF	ND	U	0.171	24.3			1
1,2,3,7,8,9-HxCDF	1.19**BJK**		0.194	24.3	1.04	1.000	1
2,3,4,6,7,8-HxCDF	ND	U	0.187	24.3			1
1,2,3,4,6,7,8-HpCDF	0.631**BJK**		0.0788	24.3	0.75	1.000	1
1,2,3,4,7,8,9-HpCDF	0.307**BJK**		0.0857	24.3	1.91	1.000	1
OCDF	4.57**BJ**		0.788	48.6	0.96	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
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Lab Code:	E2500192-001	**Basis:**	NA

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Analysis Method:	1613B	**Date Analyzed:**	03/14/25 12:59
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1028mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551833	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551829

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	1.13	4.86			1
Total Penta-Dioxins	ND	U	0.575	24.3			1
Total Hexa-Dioxins	ND	U	0.262	24.3			1
Total Hepta-Dioxins	2.31**J**		0.152	24.3	1.12		1
Total Tetra-Furans	ND	U	0.885	4.86			1
Total Penta-Furans	ND	U	0.539	24.3			1
Total Hexa-Furans	ND	U	0.179	24.3			1
Total Hepta-Furans	ND	U	0.0818	24.3			1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	03/06/25 09:20
Sample Matrix:	Water	**Date Received:**	03/07/25 10:38
Sample Name:	2387193	**Units:**	Percent
Lab Code:	E2500192-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/14/25 12:59
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1028mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551833	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551829

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1185.984	59		25-164	0.80	1.022
13C-1,2,3,7,8-PeCDD	2000	1299.551	65		25-181	1.59	1.199
13C-1,2,3,4,7,8-HxCDD	2000	1239.866	62		32-141	1.33	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1228.159	61		28-130	1.24	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1260.020	63		23-140	1.07	1.066
13C-OCDD	4000	2364.587	59		17-157	0.91	1.138
13C-2,3,7,8-TCDF	2000	987.079	49		24-169	0.79	0.991
13C-1,2,3,7,8-PeCDF	2000	1203.574	60		24-185	1.61	1.154
13C-2,3,4,7,8-PeCDF	2000	1271.576	64		21-178	1.61	1.188
13C-1,2,3,4,7,8-HxCDF	2000	1272.565	64		26-152	0.52	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1133.869	57		26-123	0.52	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1270.188	64		29-147	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1107.610	55		28-136	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1064.496	53		28-143	0.44	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	1230.399	62		26-138	0.44	1.079
37Cl-2,3,7,8-TCDD	800	1245.116	156		35-197	NA	1.023

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	03/06/25 09:20
Sample Matrix:	Water	**Date Received:**	03/07/25 10:38
Sample Name:	2387193	**Units:**	pg/L
Lab Code:	E2500192-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	1.13	4.86	1	1	
1,2,3,7,8-PeCDD	ND	0.575	24.3	1	1	
1,2,3,4,7,8-HxCDD	**1.43**	0.274	24.3	1	0.1	0.143
1,2,3,6,7,8-HxCDD	ND	0.256	24.3	1	0.1	
1,2,3,7,8,9-HxCDD	ND	0.258	24.3	1	0.1	
1,2,3,4,6,7,8-HpCDD	**1.37**	0.152	24.3	1	0.01	0.0137
OCDD	**10.5**	0.664	48.6	1	0.0003	0.00315
2,3,7,8-TCDF	ND	0.885	4.86	1	0.1	
1,2,3,7,8-PeCDF	ND	0.565	24.3	1	0.03	
2,3,4,7,8-PeCDF	ND	0.516	24.3	1	0.3	
1,2,3,4,7,8-HxCDF	ND	0.164	24.3	1	0.1	
1,2,3,6,7,8-HxCDF	ND	0.171	24.3	1	0.1	
1,2,3,7,8,9-HxCDF	**1.19**	0.194	24.3	1	0.1	0.119
2,3,4,6,7,8-HxCDF	ND	0.187	24.3	1	0.1	
1,2,3,4,6,7,8-HpCDF	**0.631**	0.0788	24.3	1	0.01	0.00631
1,2,3,4,7,8,9-HpCDF	**0.307**	0.0857	24.3	1	0.01	0.00307
OCDF	**4.57**	0.788	48.6	1	0.0003	0.00137
		Total TEQ				0.290

2005 WHO TEFs, ND = 0

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg/L
Lab Code:	EQ2500103-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/13/25 15:21
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551816	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551813

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	1.06	5.00			1
1,2,3,7,8-PeCDD	ND	U	0.580	25.0			1
1,2,3,4,7,8-HxCDD	1.43**JK**		0.288	25.0	0.88	1.000	1
1,2,3,6,7,8-HxCDD	0.263**JK**		0.246	25.0	0.81	1.000	1
1,2,3,7,8,9-HxCDD	ND	U	0.258	25.0			1
1,2,3,4,6,7,8-HpCDD	0.946**JK**		0.488	25.0	1.73	1.000	1
OCDD	4.42**JK**		0.986	50.0	1.05	1.000	1
2,3,7,8-TCDF	ND	U	0.776	5.00			1
1,2,3,7,8-PeCDF	ND	U	0.669	25.0			1
2,3,4,7,8-PeCDF	ND	U	0.583	25.0			1
1,2,3,4,7,8-HxCDF	0.308**JK**		0.173	25.0	0.80	1.000	1
1,2,3,6,7,8-HxCDF	ND	U	0.179	25.0			1
1,2,3,7,8,9-HxCDF	1.01**JK**		0.216	25.0	1.48	1.000	1
2,3,4,6,7,8-HxCDF	ND	U	0.198	25.0			1
1,2,3,4,6,7,8-HpCDF	0.584**JK**		0.0650	25.0	1.37	1.001	1
1,2,3,4,7,8,9-HpCDF	0.208**JK**		0.0720	25.0	0.35	1.000	1
OCDF	3.20**J**		0.552	50.0	0.98	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg/L
Lab Code:	EQ2500103-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/13/25 15:21
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551816	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551813

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	1.06	5.00			1
Total Penta-Dioxins	ND	U	0.580	25.0			1
Total Hexa-Dioxins	ND	U	0.262	25.0			1
Total Hepta-Dioxins	ND	U	0.488	25.0			1
Total Tetra-Furans	ND	U	0.776	5.00			1
Total Penta-Furans	ND	U	0.625	25.0			1
Total Hexa-Furans	ND	U	0.190	25.0			1
Total Hepta-Furans	ND	U	0.0690	25.0			1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	EQ2500103-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/13/25 15:21
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551816	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551813

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1504.741	75		25-164	0.78	1.021
13C-1,2,3,7,8-PeCDD	2000	1557.668	78		25-181	1.57	1.191
13C-1,2,3,4,7,8-HxCDD	2000	1292.780	65		32-141	1.28	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1472.973	74		28-130	1.30	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1388.364	69		23-140	1.07	1.066
13C-OCDD	4000	2631.256	66		17-157	0.90	1.139
13C-2,3,7,8-TCDF	2000	1240.160	62		24-169	0.79	0.992
13C-1,2,3,7,8-PeCDF	2000	1386.555	69		24-185	1.62	1.147
13C-2,3,4,7,8-PeCDF	2000	1460.758	73		21-178	1.60	1.180
13C-1,2,3,4,7,8-HxCDF	2000	1331.611	67		26-152	0.52	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1273.074	64		26-123	0.52	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1350.438	68		29-147	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1230.719	62		28-136	0.53	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1158.493	58		28-143	0.43	1.042
13C-1,2,3,4,7,8,9-HpCDF	2000	1313.505	66		26-138	0.43	1.079
37Cl-2,3,7,8-TCDD	800	1429.276	179		35-197	NA	1.022

Accuracy & Precision

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500103-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/13/25 22:39
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551825	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551813

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	172		0.945	5.00	0.76	1.001	1
1,2,3,7,8-PeCDD	944		0.355	25.0	1.60	1.001	1
1,2,3,4,7,8-HxCDD	993		0.198	25.0	1.28	1.000	1
1,2,3,6,7,8-HxCDD	887		0.170	25.0	1.26	1.000	1
1,2,3,7,8,9-HxCDD	953		0.178	25.0	1.27	1.007	1
1,2,3,4,6,7,8-HpCDD	975		0.250	25.0	1.06	1.000	1
OCDD	1950		1.88	50.0	0.89	1.000	1
2,3,7,8-TCDF	187		0.940	5.00	0.76	1.001	1
1,2,3,7,8-PeCDF	1020		0.588	25.0	1.49	1.001	1
2,3,4,7,8-PeCDF	933		0.505	25.0	1.47	1.001	1
1,2,3,4,7,8-HxCDF	884		0.193	25.0	1.18	1.000	1
1,2,3,6,7,8-HxCDF	903		0.185	25.0	1.19	1.000	1
1,2,3,7,8,9-HxCDF	1030		0.244	25.0	1.19	1.000	1
2,3,4,6,7,8-HxCDF	1040		0.221	25.0	1.20	1.000	1
1,2,3,4,6,7,8-HpCDF	1070		1.10	25.0	1.03	1.000	1
1,2,3,4,7,8,9-HpCDF	964		1.19	25.0	1.00	1.000	1
OCDF	1900		1.24	50.0	0.87	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500103-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/13/25 22:39
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551825	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551813

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	173		0.945	5.00	0.76		1
Total Penta-Dioxins	944		0.355	25.0	1.60		1
Total Hexa-Dioxins	2830		0.181	25.0	1.28		1
Total Hepta-Dioxins	975		0.250	25.0	1.06		1
Total Tetra-Furans	187		0.940	5.00	0.76		1
Total Penta-Furans	1980		0.545	25.0	1.32		1
Total Hexa-Furans	3850		0.208	25.0	1.18		1
Total Hepta-Furans	2030		1.14	25.0	1.03		1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	Percent
Lab Code:	EQ2500103-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/13/25 22:39
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551825	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551813

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1250.114	63		25-164	0.79	1.021
13C-1,2,3,7,8-PeCDD	2000	1884.896	94		25-181	1.57	1.190
13C-1,2,3,4,7,8-HxCDD	2000	1414.677	71		32-141	1.26	0.992
13C-1,2,3,6,7,8-HxCDD	2000	1603.455	80		28-130	1.28	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1646.234	82		23-140	1.09	1.066
13C-OCDD	4000	3238.650	81		17-157	0.91	1.139
13C-2,3,7,8-TCDF	2000	909.680	45		24-169	0.80	0.992
13C-1,2,3,7,8-PeCDF	2000	1512.184	76		24-185	1.61	1.147
13C-2,3,4,7,8-PeCDF	2000	1683.612	84		21-178	1.62	1.180
13C-1,2,3,4,7,8-HxCDF	2000	1380.814	69		26-152	0.52	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1321.574	66		26-123	0.53	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1275.519	64		29-147	0.52	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1219.693	61		28-136	0.51	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1302.716	65		28-143	0.44	1.042
13C-1,2,3,4,7,8,9-HpCDF	2000	1498.262	75		26-138	0.44	1.079
37Cl-2,3,7,8-TCDD	800	953.015	119		35-197	NA	1.022

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500103-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/13/25 23:28
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551826	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551813

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	179		0.734	5.00	0.78	1.001	1
1,2,3,7,8-PeCDD	983		0.397	25.0	1.62	1.001	1
1,2,3,4,7,8-HxCDD	1100		0.178	25.0	1.28	1.000	1
1,2,3,6,7,8-HxCDD	897		0.157	25.0	1.28	1.000	1
1,2,3,7,8,9-HxCDD	1010		0.162	25.0	1.27	1.007	1
1,2,3,4,6,7,8-HpCDD	1000		0.358	25.0	1.04	1.000	1
OCDD	2000		2.94	50.0	0.90	1.000	1
2,3,7,8-TCDF	200		0.757	5.00	0.75	1.001	1
1,2,3,7,8-PeCDF	1050		0.882	25.0	1.52	1.001	1
2,3,4,7,8-PeCDF	980		0.735	25.0	1.52	1.001	1
1,2,3,4,7,8-HxCDF	925		0.279	25.0	1.18	1.000	1
1,2,3,6,7,8-HxCDF	932		0.270	25.0	1.21	1.000	1
1,2,3,7,8,9-HxCDF	1070		0.376	25.0	1.19	1.000	1
2,3,4,6,7,8-HxCDF	1070		0.324	25.0	1.20	1.000	1
1,2,3,4,6,7,8-HpCDF	1090		0.986	25.0	1.00	1.000	1
1,2,3,4,7,8,9-HpCDF	1000		1.11	25.0	1.01	1.000	1
OCDF	2000		2.25	50.0	0.88	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500103-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/13/25 23:28
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551826	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551813

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	179		0.734	5.00	0.78		1
Total Penta-Dioxins	983		0.397	25.0	1.62		1
Total Hexa-Dioxins	3000		0.165	25.0	1.28		1
Total Hepta-Dioxins	1000		0.358	25.0	1.04		1
Total Tetra-Furans	200		0.757	5.00	0.75		1
Total Penta-Furans	2040		0.805	25.0	1.60		1
Total Hexa-Furans	4000		0.307	25.0	1.18		1
Total Hepta-Furans	2090		1.05	25.0	1.00		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	Percent
Lab Code:	EQ2500103-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/13/25 23:28
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551826	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551813

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1354.600	68		25-164	0.79	1.022
13C-1,2,3,7,8-PeCDD	2000	1632.958	82		25-181	1.60	1.191
13C-1,2,3,4,7,8-HxCDD	2000	1298.655	65		32-141	1.37	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1438.240	72		28-130	1.18	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1286.300	64		23-140	1.07	1.066
13C-OCDD	4000	2141.439	54		17-157	0.91	1.139
13C-2,3,7,8-TCDF	2000	1139.636	57		24-169	0.79	0.992
13C-1,2,3,7,8-PeCDF	2000	1390.244	70		24-185	1.62	1.148
13C-2,3,4,7,8-PeCDF	2000	1534.971	77		21-178	1.61	1.181
13C-1,2,3,4,7,8-HxCDF	2000	1316.250	66		26-152	0.52	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1279.912	64		26-123	0.52	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1173.594	59		29-147	0.53	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1147.339	57		28-136	0.52	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1050.074	53		28-143	0.44	1.042
13C-1,2,3,4,7,8,9-HpCDF	2000	1215.541	61		26-138	0.44	1.079
37Cl-2,3,7,8-TCDD	800	1041.518	130		35-197	NA	1.022

March 28, 2025 Service Request No:E2500217

SPL, Inc.-Ana-lab
101 Ibex Lane
Broussard, LA 70518

Laboratory Results for: BT TPDES Permit Comp

Dear Project Manager,

Enclosed are the results of the sample(s) submitted to our laboratory March 19, 2025
For your reference, these analyses have been assigned our service request number **E2500217.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

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ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	SPL, Inc.-Ana-lab	**Service Request No.:**	E2500217
Project:	BT TPDES Permit Comp	**Date Received:**	03/19/25
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 03/19/25.

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2500117: Laboratory Control Spike / **Duplicate Laboratory Control Spike (LCS/DLCS)** samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

B flags – Method Blanks

The Method Blank EQ2500117-01 contained low levels of target compounds below the Method Reporting Limit (MRL). The associated compounds in the samples are flagged with 'B' flags where the sample result is less than ten times the level detected in the method blank.

One compound, OCDD, was above the MRL (CRQL). ALS/Houston follows the ***EPA National Functional Guidelines for CDDs and CDFs, September 2005,*** which states on page 31, "The concentration of OCDD/OCDF in the method blank must be <3x the CRQL (MRL.):"

K flags

EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.

Detection Limits

Detection limits are calculated for each analyte in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

The TEQ Summary results for each sample have been calculated by ALS/Houston to include:

- WHO-2005 TEFs, The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds (M. Van den Berg et al., Toxicological Sciences 93(2):223-241, 2006)
- Non-detected compounds are not included in the 'Total'

- The 1:1 and associated dilution have been combined into one TEQ Summary report
- EPA-89 TEFs, "Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxins and Dibenzofurans (CDDs and CDFs)", 1989 EPA Update (EPA/625/3-89/016, March 1989)
- WHO-1998 TEFs, for PCBs, PCDDs, 21 PCDFs for humans and wildlife. (M. Van den Berg, et al., Environ Health Perspect 106: 775-792, 1998)

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: SPL, Inc.-Ana-lab **Service Request:**E2500217
Project: BT TPDES Permit Comp

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2500217-001	2389823	3/13/2025	0945

Service Request Summary

Folder #: **E2500217**
Client Name: SPL, Inc.-Ana-lab
Project Name: BT TPDES Permit Comp
Project Number:

Report To:

SPL, Inc.-Ana-lab
101 Ibex Lane
Broussard, LA 70518
USA

Phone Number: 903-984-0551
Cell Number:
Fax Number: 903-984-5914
E-mail: kilgore.projectmanagement@spllabs.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MLUCIO
Date Received: 03/19/25
Internal Due Date: 4/10/2025
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

3 1000 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved
Location: EHRMS-WIC 8E
Pressure Gas:
NPDES

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS Dioxins Furans/1613B
E2500217-001	2389823	Water	03/13/25 0945	II

Service Request Summary

Folder #: **E2500217**
Client Name: SPL, Inc.-Ana-lab
Project Name: BT TPDES Permit Comp
Project Number:

Report To:

SPL, Inc.-Ana-lab
101 Ibex Lane
Broussard, LA 70518
USA

Phone Number: 903-984-0551
Cell Number:
Fax Number: 903-984-5914
E-mail: kilgore.projectmanagement@spllabs.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MLUCIO
Date Received: 03/19/25
Internal Due Date: 4/10/2025
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

3 1000 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved

Location: EHRMS-WIC 8E

Pressure Gas:

NPDES

Data Qualifiers

HRMS Qualifier Set

*	Indicates the samples were extracted outside of the recommended holding time.
B	Indicates the associated analyte was found in the method blank at >1/10th the reported value.
E	Estimated value. The reported concentration is above the calibration range of the instrument.
J	Estimated value. The reported concentration is below the MRL.
K	The ion abundance ratio between the primary and secondary ions were outside of theoretical acceptance limits.The concentration of this analyte should be considered as an estimate.
P	Chlorodiphenyl ether interference was present at the retention time of the target analyte. Reported result should be considered an estimate.
Q	Monitored lock-mass indicates matrix-interference. Reported result is estimated.
S	Signal saturated detector. Result reported from dilution.
U	Compound was analyzed for, but was not detected (ND).
X	See Case Narrative.
Y	Isotopically Labeled Standard recovery outside of acceptance limits. In all cases, the signal-to-nois ratios are greater than 10:1, making the recoveries acceptable.
i	The MDL/MRL have been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Hawaii Department of Health	2024	4/30/2025
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441	6/30/2025
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025

ALS ENVIRONMENTAL – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID: E2500217 | DB-5MSUI (circled) | SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date:	Analyst:	Samples:
03/28/25	LKL	001

Second Level - Data Review – to be filled by person doing peer review

Date:	Analyst:	Samples:
03/28/25	KW	001

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

E2500217 5
SPL, Inc.-Ana-lab
BT TPDES Permit Comp

SPL The Science of Sure

SUBCONTRACT CHAIN OF CUSTODY

Printed 03/13/2025 Page 1 of 1

Subcontract to:

ALS Laboratory Group/Houstor
10450 Stancliff Rd
Houston TX 77099

/ -

Sample 2389823

Taken: 03/13/2025 09:45:00

COMPOSITE

Normal TAT

coll_temp

BT TPDES Permit Comp

COMP 3-12 1045- 3-13 0945

#1 Autosampler #6359 Bottle #001990
Sample poured Date: 3-13-25 Time0945

#2 Autosampler #7240 Bottle #001500

Sample poured Date 3-13-25 Time: 1010

N 3 Amber Glass Liter w/Teflon lined lid

Requested Test(s)

!DIX Dioxins and Furans Subcontract 1613

Shipping Temp 4C

Previous Results:

Date Time	Relinquished	Date Time	Received
03/13/2025 15:53	Affiliation SPL Kilgore Printed Name Doris Stoker Signature	03/13/2025 15:53	Affiliation SPL Kilgore Printed Name Michael D. Gribble Signature Michael D Gribble
3/13/25	Printed Name Michael D. Gribble Affiliation SPL Kilgore Signature Michael D Gribble		Printed Name Affiliation Signature
	Printed Name Affiliation Signature		Printed Name Affiliation Signature
	Printed Name Affiliation Signature	03/14/25 09:30	Printed Name Affiliation Signature

Sample Received on Ice? [ ] Yes [ ] No
Cooler/Sample Secure? [ ] Yes [ ] No

Method of Shipment: [ ] UPS [ ] Bus [ ] FedEx [ ] Lone Star [ ] Hand Delivered [ ] Other

If Shipped: Tracking Number & Temp - See Attached

Hand Delivered to Region [ ]

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments Cooler a Foam Temp via IR 3.4 2.2 cf 0.0

Project 1139763

Corporate - Kilgore: 2600 Dudley Road Kilgore TX 75662

Kilgore.ProjectManagement@spllabs.com

E2500217 5
SPL, Inc.-Ana-lab
BT TPDES Permit Comp

10450 Stancliff Road, Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Client: SPL Date: 3.14.25 WO#:

Time Received: 9:30 Received by: SM BO#:

Matrices: Solid/Sludge Water Oil Wipes Hydrocarbon Liquid Other

Kit ID/Cooler ID	Trip Blank ID	Cooler Temp (C) Observed/Corrected	IR #	Temp BLK Present?
Foam	—	2.2 / 2.2	34	Y N
		/		Y N
		/		Y N
		/		Y N
		/		Y N

Delivery Method: FedEx UPS Greyhound ALS Client Other

Date/Time of Unpacking: 3.19.25 11:00 Unpacked by: ML

Shipping container/cooler in good condition?	Yes	No	Not Present
Custody seals intact on shipping container/cooler?	Yes	No	Not Present
Custody seals intact on sample bottles?	Yes	No	Not Present
Chain of Custody present?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of Custody - Sampler's name present?	Yes	No	
Chain of Custody agrees with sample labels?	Yes	No	
Samples in proper container/bottle?	Yes	No	
VOA/TX1005/1006 Solids in hermetically Sealed Vials:	Yes	No	No VOA/TX1005/1006 Solid
Sample containers intact?	Yes	No	
Sufficient sample volume for indicated test?	Yes	No	
All samples received within holding time?	Yes	No	
Container/Temp Blank temperature in compliance?	Yes	No	
Water - VOA vials have zero headspace?	Yes	No	N/A No VOA submitted
Non-VOA waters preserved with HCl, H2SO4, HNO3 are pH <2?			Yes No N/A
Waters preserved with NaOH/Ascorbic acid are pH>12?	Yes	No	N/A
pH adjusted?	Yes*	No	N/A *See Preservation Logbook

pH adjusted by: _____ **pH Paper Lot:** _____

10450 Stancliff Rd., Suite 210
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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

1613B Liquid RC#:

Due Dates: ()

EQ#: 117

Prep Run#: 454167
Team: Semivoa GCMS/MAITRI.DESAI
Prep WorkFlow: OrgExtAq(365)
Prep Method:
Status: Draft
Prep Date/Time: 3/20/25 01:36 PM

#	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext.	pH (mL)	Cl	I	M	C	Sample Description
1	E2500208-001	HC05114-02	.01		1613B / Dioxins Furans	Water	996	5	x	00	x	0	1476.7 V.lightbrown 431
2	E2500215-001	BP-2440 MULTI-CHEM BS	.01		1613B / Dioxins Furans	Wastewater	1039	6	x		x		1561.2 tintbrown 523.0
3	E2500215-002	BP-2445 AM ACRYL	.01		1613B / Dioxins Furans	Wastewater	1025	6	x		x		1548 Amber 523.3
4	E2500215-003	2450 INTERGULF LS BS	.01		1613B / Dioxins Furans	Wastewater	1053	7	x		x		1565.2 Caramelbrownish 513
5	E2500215-004	BP-2460 DIXIE BS	.01		1613B / Dioxins Furans	Wastewater	1009	8	x		x		1524 tintbrown 514.5
6	E2500216-001	OD-005 ORREX	.01		1613B / Dioxins Furans	Wastewater	1036	6	x		x		1534 cloudy 498.5
7	E2500217-001	2389823	.01		1613B / Dioxins Furans	Water	976	5	x		x		1417.8 V.lightbrown 442.7
8	E2500218-001	2391350	.01		1613B / Dioxins Furans	Water	971	6	x		x		1417.9 lightbrown 447
9	E2500219-001	001 East Outfall Comp (031225)	.01		1613B / Dioxins Furans	Water	1040	6	x		x		1490.3 Amber 450
10	E2500219-002	002West Outfall (031225)	.02		1613B / Dioxins Furans	Water	1045	5	x		x		1496.6 Amber 451.3
11	E2500222-001	25C0110-08	.02		1613B / Dioxins Furans	Water	1012	10/7	x		x		1461.5 Clear 449.5
12	E2500222-002	25C0110-07	.01		1613B / Dioxins Furans	Water	1014	9	x		x		1460.1 Clear 445.8
13	E2500224-001	Cameo	.01		1613B / Dioxins Furans	Water	1029	5	x		x		1479.3 cloudy 449.5
14	EQ2500117-01	MB			1613B / Dioxins Furans	Liquid					x		Organic-free water
15	EQ2500117-02	LCS			1613B / Dioxins Furans	Liquid	1000				20		Organic-free water
16	EQ2500117-03	DLCS			1613B / Dioxins Furans	Liquid							Organic-free water

Note:- E2500215-01, 03 had lot of emotions.
E2500215-03 evaporated more than 1 ml.

Spike time. 3/20/25 3:40pm

I: 1613B LCS. 240693C 100ul 2-4ng/ml

M: 1613B MCS. 240652 C100 ul 2-20 ng/ml

C: 1613B CCS 240729C100 ul 8 ng/ml

MD 3/24/25

Supplementary Analytical Record

General Information:

Batch Number:	117
Prep. Run Number:	1154167
Method:	1613B
Matrix:	Water
Apparatus Used:	Lg. Soxhlets / Small Soxhlets / (Half-Gallon Jars) / 250 mL Jars

Extraction

Hexane Lot #:	240233	Chlorine Strips Lot #:	235876
Dichloromethane Lot #:	239815	pH Strips Lot #:	240082
Toluene Lot #:	239437	Sodium Sulfate Lot #:	235888
Tridecane Lot #:	239604	Acid Lot#:	
Methanol Lot #:		Sodium Thiosulfate Lot#:	
Corn Oil Lot #:		Resin Lot #:	
Balance Serial Number:	HRMS-01	Ottowa Sand ID:	
Rotovaps: Rotovap 1 ( ) or Rotovap 2 ( ) Analyst:			

Acid Clean-Up

Sulfuric Acid Lot#:	N/A.
Sodium Chloride Lot #:	

Column Clean-Up

Hexane Lot #:	240233	NaOH Silica Gel ID:	326 220412
Dichloromethane Lot#:	239815	H2SO4 Silica Gel ID:	326220416
Toluene Lot #:	239437	Silica Gel Lot #:	236863
Ethyl Acetate Lot #:	238820	Carbon Lot #:	236342
Glass Wool Lot #:	239605	Sodium Hydroxide Lot #:	
Balance Serial Number:	HRMS-01	Sulfuric Acid Lot #:	
		Sodium Sulfate Lot #:	235888

Additional Notes:

Step-Time Processing:

Extraction: 3/20/25

Spike Time 3:44PM Start Time 3/21/25 9:00 AM

Acid Clean-Up: 3/24/25 9 to 10 am

Column Clean-Up: ----NA---- 11: to 3pm.

Final Volume: 3/25/25 9:00 am to 1:30pm.

Soxhlet:

Date/Time Up:

Date/Time Down:

Abbreviation Key:

Bench Sheet:
B#: LIMS bottle number
V: Chlorine Check (X = False)
I: Internal Standard Witness (Initials)
M: Matrix Witness (Initials)
C: Cleanup Standard Witness (Initials)

STD Tracking:

I: Internal Spike (LIMS ID; Name; Conc; Initials)
M: Matrix Spike (LIMS ID; Name; Conc; Initials)
C: Cleanup Spike (LIMS ID; Name; Conc; Initials)

*Where additional standards are added to the sample, distinctions are made using unique symbols to indicate which standards are added to which samples.

Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	03/13/25 09:45
Sample Matrix:	Water	**Date Received:**	03/19/25 11:35
Sample Name:	2389823	**Units:**	pg/L
Lab Code:	E2500217-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/26/25 01:47
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	976mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552015	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552011

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	1.25	5.12			1
1,2,3,7,8-PeCDD	ND	U	0.800	25.6			1
1,2,3,4,7,8-HxCDD	1.74**BJK**		0.261	25.6	1.92	1.000	1
1,2,3,6,7,8-HxCDD	0.492**BJK**		0.234	25.6	0.75	1.000	1
1,2,3,7,8,9-HxCDD	ND	U	0.240	25.6			1
1,2,3,4,6,7,8-HpCDD	2.02**BJ**		0.179	25.6	1.13	1.000	1
OCDD	9.47**BJ**		0.808	51.2	0.98	1.000	1
2,3,7,8-TCDF	ND	U	1.20	5.12			1
1,2,3,7,8-PeCDF	1.09**J**		0.631	25.6	1.47	1.000	1
2,3,4,7,8-PeCDF	ND	U	0.560	25.6			1
1,2,3,4,7,8-HxCDF	0.274**JK**		0.184	25.6	0.75	1.000	1
1,2,3,6,7,8-HxCDF	ND	U	0.178	25.6			1
1,2,3,7,8,9-HxCDF	0.928**BJK**		0.255	25.6	0.73	1.001	1
2,3,4,6,7,8-HxCDF	0.326**BJ**		0.220	25.6	1.19	1.000	1
1,2,3,4,6,7,8-HpCDF	0.641**BJK**		0.277	25.6	0.46	1.000	1
1,2,3,4,7,8,9-HpCDF	0.572**BJK**		0.325	25.6	2.79	1.000	1
OCDF	4.41**BJK**		1.15	51.2	0.56	1.004	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	03/13/25 09:45
Sample Matrix:	Water	**Date Received:**	03/19/25 11:35
Sample Name:	2389823	**Units:**	pg/L
Lab Code:	E2500217-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/26/25 01:47
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	976mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552015	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552011

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	1.25	5.12			1
Total Penta-Dioxins	ND	U	0.800	25.6			1
Total Hexa-Dioxins	0.881**J**		0.244	25.6	1.25		1
Total Hepta-Dioxins	3.57**J**		0.179	25.6	0.95		1
Total Tetra-Furans	ND	U	1.20	5.12			1
Total Penta-Furans	1.09**J**		0.595	25.6	1.47		1
Total Hexa-Furans	0.529**J**		0.204	25.6	1.25		1
Total Hepta-Furans	ND	U	0.300	25.6			1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	03/13/25 09:45
Sample Matrix:	Water	**Date Received:**	03/19/25 11:35
Sample Name:	2389823	**Units:**	Percent
Lab Code:	E2500217-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/26/25 01:47
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	976mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552015	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552011

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1154.499	58		25-164	0.79	1.023
13C-1,2,3,7,8-PeCDD	2000	1303.412	65		25-181	1.58	1.201
13C-1,2,3,4,7,8-HxCDD	2000	1210.892	61		32-141	1.37	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1285.829	64		28-130	1.23	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1196.528	60		23-140	1.07	1.067
13C-OCDD	4000	2403.013	60		17-157	0.90	1.139
13C-2,3,7,8-TCDF	2000	874.237	44		24-169	0.79	0.991
13C-1,2,3,7,8-PeCDF	2000	1088.540	54		24-185	1.59	1.156
13C-2,3,4,7,8-PeCDF	2000	1153.267	58		21-178	1.59	1.190
13C-1,2,3,4,7,8-HxCDF	2000	1171.960	59		26-152	0.51	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1143.898	57		26-123	0.51	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1034.557	52		29-147	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1001.470	50		28-136	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	981.251	49		28-143	0.43	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	1060.329	53		26-138	0.43	1.079
37Cl-2,3,7,8-TCDD	800	1351.840	169		35-197	NA	1.024

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	03/13/25 09:45
Sample Matrix:	Water	**Date Received:**	03/19/25 11:35
Sample Name:	2389823	**Units:**	pg/L
Lab Code:	E2500217-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	1.25	5.12	1	1	
1,2,3,7,8-PeCDD	ND	0.800	25.6	1	1	
1,2,3,4,7,8-HxCDD	**1.74**	0.261	25.6	1	0.1	0.174
1,2,3,6,7,8-HxCDD	**0.492**	0.234	25.6	1	0.1	0.0492
1,2,3,7,8,9-HxCDD	ND	0.240	25.6	1	0.1	
1,2,3,4,6,7,8-HpCDD	**2.02**	0.179	25.6	1	0.01	0.0202
OCDD	**9.47**	0.808	51.2	1	0.0003	0.00284
2,3,7,8-TCDF	ND	1.20	5.12	1	0.1	
1,2,3,7,8-PeCDF	**1.09**	0.631	25.6	1	0.03	0.0327
2,3,4,7,8-PeCDF	ND	0.560	25.6	1	0.3	
1,2,3,4,7,8-HxCDF	**0.274**	0.184	25.6	1	0.1	0.0274
1,2,3,6,7,8-HxCDF	ND	0.178	25.6	1	0.1	
1,2,3,7,8,9-HxCDF	**0.928**	0.255	25.6	1	0.1	0.0928
2,3,4,6,7,8-HxCDF	**0.326**	0.220	25.6	1	0.1	0.0326
1,2,3,4,6,7,8-HpCDF	**0.641**	0.277	25.6	1	0.01	0.00641
1,2,3,4,7,8,9-HpCDF	**0.572**	0.325	25.6	1	0.01	0.00572
OCDF	**4.41**	1.15	51.2	1	0.0003	0.00132
		Total TEQ				0.445

2005 WHO TEFs, ND = 0

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg/L
Lab Code:	EQ2500117-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/25/25 12:24
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551999	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551996

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	1.04	5.00			1
1,2,3,7,8-PeCDD	0.523**JK**		0.373	25.0	2.83	1.001	1
1,2,3,4,7,8-HxCDD	1.29**J**		0.304	25.0	1.14	1.000	1
1,2,3,6,7,8-HxCDD	0.323**JK**		0.269	25.0	0.99	1.001	1
1,2,3,7,8,9-HxCDD	ND	U	0.278	25.0			1
1,2,3,4,6,7,8-HpCDD	1.76**JK**		0.184	25.0	1.40	1.000	1
OCDD	8.28**J**		0.447	50.0	0.92	1.000	1
2,3,7,8-TCDF	ND	U	0.767	5.00			1
1,2,3,7,8-PeCDF	ND	U	0.253	25.0			1
2,3,4,7,8-PeCDF	ND	U	0.243	25.0			1
1,2,3,4,7,8-HxCDF	ND	U	0.147	25.0			1
1,2,3,6,7,8-HxCDF	ND	U	0.150	25.0			1
1,2,3,7,8,9-HxCDF	0.714**JK**		0.203	25.0	1.81	1.001	1
2,3,4,6,7,8-HxCDF	0.329**JK**		0.175	25.0	0.73	1.000	1
1,2,3,4,6,7,8-HpCDF	1.60**J**		0.0270	25.0	0.92	1.000	1
1,2,3,4,7,8,9-HpCDF	0.317**JK**		0.0330	25.0	1.96	1.000	1
OCDF	19.1**J**		0.837	50.0	0.88	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg/L
Lab Code:	EQ2500117-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/25/25 12:24
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551999	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551996

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	1.04	5.00			1
Total Penta-Dioxins	ND	U	0.373	25.0			1
Total Hexa-Dioxins	1.29**J**		0.283	25.0	1.14		1
Total Hepta-Dioxins	2.21**J**		0.184	25.0	1.11		1
Total Tetra-Furans	ND	U	0.767	5.00			1
Total Penta-Furans	ND	U	0.248	25.0			1
Total Hexa-Furans	ND	U	0.166	25.0			1
Total Hepta-Furans	1.78**J**		0.0300	25.0	0.92		1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	EQ2500117-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/25/25 12:24
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551999	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551996

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1568.990	78		25-164	0.78	1.023
13C-1,2,3,7,8-PeCDD	2000	1650.879	83		25-181	1.59	1.201
13C-1,2,3,4,7,8-HxCDD	2000	1674.081	84		32-141	1.28	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1766.960	88		28-130	1.25	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1517.028	76		23-140	1.09	1.067
13C-OCDD	4000	2716.323	68		17-157	0.92	1.139
13C-2,3,7,8-TCDF	2000	1233.054	62		24-169	0.79	0.991
13C-1,2,3,7,8-PeCDF	2000	1457.515	73		24-185	1.60	1.156
13C-2,3,4,7,8-PeCDF	2000	1475.898	74		21-178	1.62	1.190
13C-1,2,3,4,7,8-HxCDF	2000	1650.005	83		26-152	0.51	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1541.380	77		26-123	0.52	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1476.530	74		29-147	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1426.535	71		28-136	0.50	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1267.954	63		28-143	0.42	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	1325.502	66		26-138	0.43	1.080
37Cl-2,3,7,8-TCDD	800	866.193	108		35-197	NA	1.024

Accuracy & Precision

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Analyzed:**	03/25/25
Sample Matrix:	Water	**Date Extracted:**	03/21/25

Duplicate Lab Control Sample Summary
Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Units:**	pg/L
Prep Method:	Method Sep Funnel/Jar	**Basis:**	NA
		Analysis Lot:	874136

	Lab Control Sample EQ2500117-02			Duplicate Lab Control Sample EQ2500117-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,3,4,6,7,8-HpCDD	921	1000	92	948	1000	95	70-140	3	50
1,2,3,4,7,8-HxCDD	950	1000	95	993	1000	99	70-164	4	50
1,2,3,6,7,8-HxCDD	825	1000	83	851	1000	85	76-134	3	50
1,2,3,7,8,9-HxCDD	859	1000	86	921	1000	92	64-162	7	50
1,2,3,7,8-PeCDD	862	1000	86	954	1000	95	70-142	10	50
2,3,7,8-TCDD	164	200	82	181	200	91	67-158	10	50
OCDD	1870	2000	94	1920	2000	96	78-144	2	50
1,2,3,4,6,7,8-HpCDF	927	1000	93	993	1000	99	82-122	7	50
1,2,3,4,7,8,9-HpCDF	896	1000	90	913	1000	91	78-138	2	50
1,2,3,4,7,8-HxCDF	821	1000	82	813	1000	81	72-134	1	50
1,2,3,6,7,8-HxCDF	849	1000	85	857	1000	86	84-130	1	50
1,2,3,7,8,9-HxCDF	939	1000	94	917	1000	92	78-130	2	50
1,2,3,7,8-PeCDF	912	1000	91	948	1000	95	80-134	4	50
2,3,4,6,7,8-HxCDF	916	1000	92	975	1000	98	70-156	6	50
2,3,4,7,8-PeCDF	843	1000	84	910	1000	91	68-160	8	50
2,3,7,8-TCDF	163	200	81	190	200	95	75-158	16	50
OCDF	1820	2000	91	1920	2000	96	63-170	6	50

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500117-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/25/25 19:50
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552008	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551996

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	164		0.896	5.00	0.78	1.001	1
1,2,3,7,8-PeCDD	862		0.551	25.0	1.63	1.000	1
1,2,3,4,7,8-HxCDD	950		0.204	25.0	1.24	1.000	1
1,2,3,6,7,8-HxCDD	825		0.178	25.0	1.24	1.000	1
1,2,3,7,8,9-HxCDD	859		0.186	25.0	1.31	1.007	1
1,2,3,4,6,7,8-HpCDD	921		0.495	25.0	1.06	1.000	1
OCDD	1870		4.54	50.0	0.90	1.000	1
2,3,7,8-TCDF	163		1.01	5.00	0.69	1.001	1
1,2,3,7,8-PeCDF	912		0.547	25.0	1.47	1.000	1
2,3,4,7,8-PeCDF	843		0.509	25.0	1.47	1.001	1
1,2,3,4,7,8-HxCDF	821		0.381	25.0	1.17	1.000	1
1,2,3,6,7,8-HxCDF	849		0.369	25.0	1.19	1.000	1
1,2,3,7,8,9-HxCDF	939		0.519	25.0	1.16	1.000	1
2,3,4,6,7,8-HxCDF	916		0.458	25.0	1.15	1.000	1
1,2,3,4,6,7,8-HpCDF	927		1.46	25.0	0.98	1.000	1
1,2,3,4,7,8,9-HpCDF	896		1.71	25.0	0.99	1.000	1
OCDF	1820		1.37	50.0	0.86	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500117-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/25/25 19:50
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552008	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551996

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	164		0.896	5.00	0.78		1
Total Penta-Dioxins	862		0.551	25.0	1.63		1
Total Hexa-Dioxins	2630		0.189	25.0	1.24		1
Total Hepta-Dioxins	921		0.495	25.0	1.06		1
Total Tetra-Furans	163		1.01	5.00	0.69		1
Total Penta-Furans	1760		0.528	25.0	1.71		1
Total Hexa-Furans	3490		0.424	25.0	1.17		1
Total Hepta-Furans	1820		1.58	25.0	0.98		1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	Percent
Lab Code:	EQ2500117-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/25/25 19:50
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552008	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551996

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1239.335	62		25-164	0.78	1.023
13C-1,2,3,7,8-PeCDD	2000	1325.222	66		25-181	1.57	1.201
13C-1,2,3,4,7,8-HxCDD	2000	1259.319	63		32-141	1.25	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1312.551	66		28-130	1.28	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1148.079	57		23-140	1.07	1.067
13C-OCDD	4000	2028.152	51		17-157	0.90	1.138
13C-2,3,7,8-TCDF	2000	963.147	48		24-169	0.79	0.991
13C-1,2,3,7,8-PeCDF	2000	1130.650	57		24-185	1.61	1.156
13C-2,3,4,7,8-PeCDF	2000	1184.926	59		21-178	1.62	1.190
13C-1,2,3,4,7,8-HxCDF	2000	1240.534	62		26-152	0.51	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1187.881	59		26-123	0.51	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1105.904	55		29-147	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1055.101	53		28-136	0.50	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	973.994	49		28-143	0.43	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	1022.396	51		26-138	0.43	1.079
37Cl-2,3,7,8-TCDD	800	1377.818	172		35-197	NA	1.024

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500117-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/25/25 20:39
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552009	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551996

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	181		1.28	5.00	0.76	1.001	1
1,2,3,7,8-PeCDD	954		0.380	25.0	1.64	1.000	1
1,2,3,4,7,8-HxCDD	993		0.288	25.0	1.28	1.000	1
1,2,3,6,7,8-HxCDD	851		0.260	25.0	1.27	1.000	1
1,2,3,7,8,9-HxCDD	921		0.267	25.0	1.28	1.007	1
1,2,3,4,6,7,8-HpCDD	948		0.590	25.0	1.07	1.000	1
OCDD	1920		3.18	50.0	0.89	1.000	1
2,3,7,8-TCDF	190		0.939	5.00	0.69	1.001	1
1,2,3,7,8-PeCDF	948		0.669	25.0	1.48	1.001	1
2,3,4,7,8-PeCDF	910		0.644	25.0	1.42	1.001	1
1,2,3,4,7,8-HxCDF	813		0.375	25.0	1.12	1.001	1
1,2,3,6,7,8-HxCDF	857		0.374	25.0	1.11	1.000	1
1,2,3,7,8,9-HxCDF	917		0.496	25.0	1.17	1.000	1
2,3,4,6,7,8-HxCDF	975		0.441	25.0	1.15	1.000	1
1,2,3,4,6,7,8-HpCDF	993		1.68	25.0	0.97	1.000	1
1,2,3,4,7,8,9-HpCDF	913		1.95	25.0	0.98	1.000	1
OCDF	1920		3.85	50.0	0.87	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500117-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/25/25 20:39
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552009	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551996

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	181		1.28	5.00	0.76		1
Total Penta-Dioxins	961		0.380	25.0	1.64		1
Total Hexa-Dioxins	2760		0.271	25.0	1.28		1
Total Hepta-Dioxins	948		0.590	25.0	1.07		1
Total Tetra-Furans	191		0.939	5.00	0.69		1
Total Penta-Furans	1880		0.656	25.0	1.40		1
Total Hexa-Furans	3560		0.415	25.0	1.12		1
Total Hepta-Furans	1910		1.81	25.0	0.97		1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	Percent
Lab Code:	EQ2500117-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/25/25 20:39
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552009	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551996

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1449.355	72		25-164	0.78	1.023
13C-1,2,3,7,8-PeCDD	2000	1583.558	79		25-181	1.57	1.201
13C-1,2,3,4,7,8-HxCDD	2000	1649.314	82		32-141	1.29	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1677.692	84		28-130	1.28	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1665.416	83		23-140	1.07	1.067
13C-OCDD	4000	2945.625	74		17-157	0.91	1.138
13C-2,3,7,8-TCDF	2000	1292.708	65		24-169	0.82	0.991
13C-1,2,3,7,8-PeCDF	2000	1558.027	78		24-185	1.61	1.156
13C-2,3,4,7,8-PeCDF	2000	1580.653	79		21-178	1.63	1.190
13C-1,2,3,4,7,8-HxCDF	2000	1710.163	86		26-152	0.53	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1615.135	81		26-123	0.52	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1519.302	76		29-147	0.53	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1468.457	73		28-136	0.52	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1444.206	72		28-143	0.43	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	1584.956	79		26-138	0.43	1.079
37Cl-2,3,7,8-TCDD	800	893.746	112		35-197	NA	1.024

April 03, 2025 Service Request No:E2500232

SPL, Inc.-Ana-lab
101 Ibex Lane
Broussard, LA 70518

Laboratory Results for: BT TPDES Permit Comp

Dear Project Manager,

Enclosed are the results of the sample(s) submitted to our laboratory March 21, 2025
For your reference, these analyses have been assigned our service request number **E2500232.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

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dba ALS Environmental

Certificate of Analysis

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Client:	SPL, Inc.-Ana-lab	**Service Request No.:**	E2500232
Project:	BT TPDES Permit Comp	**Date Received:**	03/21/25
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 03/21/25.

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2500125: Laboratory Control Spike / **Duplicate Laboratory Control Spike (LCS/DLCS)** samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

B flags – Method Blanks

The Method Blank EQ2500125-01 contained low levels of target compounds below the Method Reporting Limit (MRL). The associated compounds in the samples are flagged with 'B' flags where the sample result is less than ten times the level detected in the method blank.

One compound, OCDD, was above the MRL (CRQL). ALS/Houston follows the ***EPA National Functional Guidelines for CDDs and CDFs, September 2005,*** which states on page 31, "The concentration of OCDD/OCDF in the method blank must be <3x the CRQL (MRL.):"

K flags

EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.

Detection Limits

Detection limits are calculated for each analyte in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

The TEQ Summary results for each sample have been calculated by ALS/Houston to include:

- WHO-2005 TEFs, The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds (M. Van den Berg et al., Toxicological Sciences 93(2):223-241, 2006)
- Non-detected compounds are not included in the 'Total'
- The 1:1 and associated dilution have been combined into one TEQ Summary report
- EPA-89 TEFs, "Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxins and Dibenzofurans (CDDs and CDFs)", 1989 EPA Update (EPA/625/3-89/016, March 1989)

- WHO-1998 TEFs, for PCBs, PCDDs, 21 PCDFs for humans and wildlife. (M. Van den Berg, et al., Environ Health Perspect 106: 775-792, 1998)

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: SPL, Inc.-Ana-lab **Service Request:**E2500232
Project: BT TPDES Permit Comp/2392060

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2500232-001	2392060	3/21/2025	0925

Service Request Summary

Folder #: **E2500232**
Client Name: SPL, Inc.-Ana-lab
Project Name: BT TPDES Permit Comp
Project Number: 2392060

Report To:

SPL, Inc.-Ana-lab
101 Ibex Lane
Broussard, LA 70518
USA

Phone Number: 903-984-0551
Cell Number:
Fax Number: 903-984-5914
E-mail: kilgore.projectmanagement@spllabs.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MLUCIO
Date Received: 03/21/25
Internal Due Date: 4/11/2025
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

3 1000 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved
Location: EHRMS-WIC 9E
Pressure Gas:
NPDES

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS Dioxins Furans/1613B
E2500232-001	2392060	Water	03/21/25 0925	II

Service Request Summary

Folder #: **E2500232**
Client Name: SPL, Inc.-Ana-lab
Project Name: BT TPDES Permit Comp
Project Number: 2392060

Report To:

SPL, Inc.-Ana-lab
101 Ibex Lane
Broussard, LA 70518
USA

Phone Number: 903-984-0551
Cell Number:
Fax Number: 903-984-5914
E-mail: kilgore.projectmanagement@spllabs.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MLUCIO
Date Received: 03/21/25
Internal Due Date: 4/11/2025
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

3 1000 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved

Location: EHRMS-WIC 9E

Pressure Gas:

NPDES

Data Qualifiers

HRMS Qualifier Set

*	Indicates the samples were extracted outside of the recommended holding time.
B	Indicates the associated analyte was found in the method blank at >1/10th the reported value.
E	Estimated value. The reported concentration is above the calibration range of the instrument.
J	Estimated value. The reported concentration is below the MRL.
K	The ion abundance ratio between the primary and secondary ions were outside of theoretical acceptance limits.The concentration of this analyte should be considered as an estimate.
P	Chlorodiphenyl ether interference was present at the retention time of the target analyte. Reported result should be considered an estimate.
Q	Monitored lock-mass indicates matrix-interference. Reported result is estimated.
S	Signal saturated detector. Result reported from dilution.
U	Compound was analyzed for, but was not detected (ND).
X	See Case Narrative.
Y	Isotopically Labeled Standard recovery outside of acceptance limits. In all cases, the signal-to-nois ratios are greater than 10:1, making the recoveries acceptable.
i	The MDL/MRL have been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Hawaii Department of Health	2024	4/30/2025
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441	6/30/2025
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025

ALS ENVIRONMENTAL – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID: E2500232 | DB-5MSUI | SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date:	Analyst:	Samples:
04/03/25	LKL	001

Second Level - Data Review – to be filled by person doing peer review

Date:	Analyst:	Samples:
04/03/25	KW	001

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

SPL
The Science of Sure

SUBCONTRACT CHAIN OF CUSTODY

Subcontract to:

ALS Laboratory Group/Houstor
10450 Stancliff Rd
Houston TX 77099

/ -

Sample 2392060

Taken: 03/20/2025 07:50:00

COMPOSITE

Normal TAT

coll_temp

BT TPDES Permit Comp

#1 Autosampler #7241 Bottle #001501
Sample poured Date:3-20-25 Time:0930

#2 Autosampler #7240 Bottle #001501

Sample poured Date:7240 Time:0945

3 x Amber Glass Liter w/Teflon lined lid

Requested Test(s)

!DIX Dioxins and Furans Subcontract 1613

Shipping Temp 4C

Previous Results:

Date Time	Relinquished	Date Time	Received
03/20/2025 13:59	Affiliation SPL Kilgore	03/20/2025 13:59	Affiliation SPL Kilgore
	Printed Name Doris Stoker		Printed Name
	Signature		Signature
3.20	Printed Name Doug Swaim - SPL, Inc. Affiliation SPL Kilgore		Printed Name Affiliation
	Signature		Signature
	Printed Name Affiliation		Printed Name Affiliation
	Signature		Signature
	Printed Name Affiliation 03/21/25		Printed Name Affiliation
	Signature 09:25		Signature

Sample Received on Ice? [ ] Yes [ ] No
Cooler/Sample Secure? [ ] Yes [ ] No

Method of Shipment: [ ] UPS [ ] Bus [ ] FedEx [ ] Lone Star [ ] Hand Delivered [ ] Other

If Shipped: Tracking Number & Temp - See Attached

Hand Delivered to Region [ ]

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments

Cooler/Form Temp IR#34 2.3 CF-0.0

Project 1140559

Corporate - Kilgore: 2600 Dudley Road Kilgore TX 75662

Kilgore.ProjectManagement@spllabs.com


ORIGIN ID:GGGA (903) 984-0551
MIKE GRIBBLE
ANA-LAB CORPORATION
2600 DUDLEY RD
KILGORE, TX 75662
UNITED STATES US
SHIP DATE: 20MAR25
ACTWGT: 18.00 LB MAN
CAD: 0949542/CAFE3855
DIMS: 14x12x12 IN
BILL SENDER
TO ENVIROMENTAL DIVISION
ALS
10450 STANCLIFF RD
HOUSTON TX 77099
(281) 530-5656
INV:
PO:
REF:
DEPT:
FedEx Express
TRK# 0201 4131 9516 8003
FRI - 21 MAR 10:30A
PRIORITY OVERNIGHT
XP SGRA
77099
TX-US IAH
NOT WRITE OR MARK
CLASS 9 LABEL)
FedEx M-3650 11/13 Item # 106426
UN 1845
Part # 156148-634 MTW EXP 05/24

10450 Stancliff Road, Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Client: SPL Date: 3.21.25 WO#:

Time Received: 9:25 Received by: BO#:

Matrices: Solid/Sludge Water Oil Wipes Hydrocarbon Liquid Other

Kit ID/Cooler ID	Trip Blank ID	Cooler Temp (C) Observed/Corrected	IR #	Temp BLK Present?
Fedex	—	2.3 / 2.3	34	Y N
		/		Y N
		/		Y N
		/		Y N
		/		Y N

Delivery Method: FedEx UPS Greyhound ALS Client Other

Date/Time of Unpacking: 3.21.25 13:00 Unpacked by: MM

Shipping container/cooler in good condition?	Yes	No	Not Present
Custody seals intact on shipping container/cooler?	Yes	No	Not Present
Custody seals intact on sample bottles?	Yes	No	Not Present
Chain of Custody present?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of Custody - Sampler's name present?	Yes	No	
Chain of Custody agrees with sample labels?	Yes	No	
Samples in proper container/bottle?	Yes	No	
VOA/TX1005/1006 Solids in hermetically Sealed Vials:	Yes	No	No VOA/TX1005/1006 Solid
Sample containers intact?	Yes	No	
Sufficient sample volume for indicated test?	Yes	No	
All samples received within holding time?	Yes	No	
Container/Temp Blank temperature in compliance?	Yes	No	
Water - VOA vials have zero headspace?	Yes	No	N/A No VOA submitted
Non-VOA waters preserved with HCl, H2SO4, HNO3 are pH <2?			Yes No N/A
Waters preserved with NaOH/Ascorbic acid are pH>12?	Yes	No	N/A
pH adjusted?	Yes*	No	N/A *See Preservation Logbook

pH adjusted by: _____ **pH Paper Lot:** _____

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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 454459 **Prep WorkFlow:** OrgExtAq(365) **Status:** Prepped
Team: Semivoa GCMS/MDESAI **Prep Method:** Method Sep Funnel/Jar **Prep Date/Time:** 3/26/25 13:00

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2500209-001	BP-2410 STYROLUTION CS	.01	1613B/Dioxins Furans	5	x	Wastewater	1037mL	light green
2	E2500209-002	BP-2420 STYROLUTION CS	.01	1613B/Dioxins Furans	5	x	Wastewater	1045mL	tint green
3	E2500209-003	BP-2425 STYROLUTION BS	.01	1613B/Dioxins Furans	5	x	Wastewater	839mL	yellow occur
4	E2500209-004	BP-2430 CARPENTER BS	.01	1613B/Dioxins Furans	11/7	x	Wastewater	1054mL	cloudy
5	E2500209-005	BP-2435 KURARAY/SEPCA BS	.01	1613B/Dioxins Furans	5	x	Wastewater	1024mL	clear
6	E2500230-001	BP-2470 10201 BAY AREA BS	.01	1613B/Dioxins Furans	7	x	Wastewater	1014mL	carbon
7	E2500230-002	BP-2480 DIXIE BS 2	.01	1613B/Dioxins Furans	8	x	Wastewater	993mL	very light green
8	E2500230-003	BP-2485 NCTI BS	.01	1613B/Dioxins Furans	7	x	Wastewater	1043mL	very light green
9	E2500230-004	BP-2510 HALDOR BS	.01	1613B/Dioxins Furans	7	x	Wastewater	1040mL	cloudy
10	E2500231-001	2391321	.01	1613B/Dioxins Furans	6	x	Water	960mL	clear
11	E2500232-001	2392060	.01	1613B/Dioxins Furans	6	x	Water	990mL	light green
12	EQ2500125-01	MB		1613B/Dioxins Furans	5	x	Liquid	1000mL	
13	EQ2500125-02	LCS		1613B/Dioxins Furans	5	x	Liquid	1000mL	
14	EQ2500125-03	DLCS		1613B/Dioxins Furans	5	x	Liquid	1000mL	

Spiking Solutions

Name: 1613B Matrix Working Standard Inventory ID 240452 Logbook Ref: OO 3/5/25@MWS@4-20ng/ml Expires On: 07/10/2025

EQ2500125-02	100.00µL	EQ2500125-03	100.00µL

Name: 1613B Labeled Working Standard Inventory ID 240693 Logbook Ref: 1613BLWS 03/20/25 MD Expires On: 05/16/2025

E2500209-001	1,000.00µL	E2500209-002	1,000.00µL	E2500209-003	1,000.00µL	E2500209-004	1,000.00µL	E2500209-005	1,000.00µL	E2500230-001	1,000.00µL
E2500230-002	1,000.00µL	E2500230-003	1,000.00µL	E2500230-004	1,000.00µL	E2500231-001	1,000.00µL	E2500232-001	1,000.00µL	EQ2500125-01	1,000.00µL
EQ2500125-02	1,000.00µL	EQ2500125-03	1,000.00µL								

Name: 8290/1613B Cleanup Working Standard Inventory ID 240729 Logbook Ref: OO 3/24/25 CWS@8ng/ml Expires On: 06/13/2025

E2500209-001	100.00µL	E2500209-002	100.00µL	E2500209-003	100.00µL	E2500209-004	100.00µL	E2500209-005	100.00µL	E2500230-001	100.00µL
E2500230-002	100.00µL	E2500230-003	100.00µL	E2500230-004	100.00µL	E2500231-001	100.00µL	E2500232-001	100.00µL	EQ2500125-01	100.00µL
EQ2500125-02	100.00µL	EQ2500125-03	100.00µL								

Preparation Information Benchsheet

Prep Run#: 454459 **Prep WorkFlow:** OrgExtAq(365) **Status:** Prepped
Team: Semivoa GCMS/MDESAI **Prep Method:** Method Sep Funnel/Jar **Prep Date/Time:** 3/26/25 13:00

Preparation Materials

Aquachek Chlorine Strips	MD FREE CHLORINE STR (235876)	Ethyl Acetate 99.9% Minimum EtOAc	OO 4/24/23 C4H8O4 (228820)	Glass Wool	cw 1/15/25 (239605)
Hexanes 95%	HEXANE 95% 02/20/25 MD (240233)	Dichloromethane (Methylene Chloride) 99.9% MeCl2	DICHLORO MRTHANE MD 01/28/2025 (239815)	Sodium Sulfate Anhydrous Reagent Grade Na2SO4	DD062124 (235888)
Tridecane (n-Tridecane)	CW 1/15/25 (239604)	pH Paper 0-14	02/12/2025 MDPH STRIPS 0-14 (240082)	Silica Gel	DD081924 (236863)
Toluene 99.9% Minimum	MD 04/01/25 TOLUENE99.5% (240895)				

Preparation Steps

Step:	Extraction	Step:	Acid Clean	Step:	Silica Gel Clean	Step:	Final Volume
Started:	3/26/25 13:00	Started:	3/31/25 10:00	Started:	3/31/25 12:00	Started:	4/1/25 09:00
Finished:	3/31/25 12:00	Finished:	3/31/25 11:00	Finished:	3/31/25 16:40	Finished:	4/1/25 14:30
By:	MDESAI	By:	MDESAI	By:	MDESAI	By:	MDESAI
Comments		Comments		Comments		Comments	

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	03/21/25 09:25
Sample Matrix:	Water	**Date Received:**	03/21/25 18:41
Sample Name:	2392060	**Units:**	pg/L
Lab Code:	E2500232-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/02/25 08:52
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	990mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552097	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552085

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	4.55	5.05			1
1,2,3,7,8-PeCDD	ND	U	2.01	25.3			1
1,2,3,4,7,8-HxCDD	1.73**BJK**		0.512	25.3	0.79	1.000	1
1,2,3,6,7,8-HxCDD	0.672**BJK**		0.448	25.3	0.73	1.000	1
1,2,3,7,8,9-HxCDD	ND	U	0.465	25.3			1
1,2,3,4,6,7,8-HpCDD	3.78**BJ**		0.485	25.3	0.96	1.000	1
OCDD	12.1**BJK**		1.87	50.5	1.11	1.000	1
2,3,7,8-TCDF	ND	U	4.23	5.05			1
1,2,3,7,8-PeCDF	ND	U	2.01	25.3			1
2,3,4,7,8-PeCDF	ND	U	1.79	25.3			1
1,2,3,4,7,8-HxCDF	1.32**BJK**		0.605	25.3	0.96	1.000	1
1,2,3,6,7,8-HxCDF	1.13**BJK**		0.597	25.3	1.49	1.001	1
1,2,3,7,8,9-HxCDF	1.45**BJK**		0.819	25.3	1.03	1.001	1
2,3,4,6,7,8-HxCDF	ND	U	0.738	25.3			1
1,2,3,4,6,7,8-HpCDF	1.61**BJK**		0.471	25.3	0.80	1.000	1
1,2,3,4,7,8,9-HpCDF	ND	U	0.541	25.3			1
OCDF	5.14**BJK**		2.00	50.5	1.11	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	03/21/25 09:25
Sample Matrix:	Water	**Date Received:**	03/21/25 18:41
Sample Name:	2392060	**Units:**	pg/L
Lab Code:	E2500232-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/02/25 08:52
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	990mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552097	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552085

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	4.55	5.05			1
Total Penta-Dioxins	ND	U	2.01	25.3			1
Total Hexa-Dioxins	ND	U	0.473	25.3			1
Total Hepta-Dioxins	4.47**J**		0.485	25.3	0.96		1
Total Tetra-Furans	ND	U	4.23	5.05			1
Total Penta-Furans	ND	U	1.90	25.3			1
Total Hexa-Furans	ND	U	0.678	25.3			1
Total Hepta-Furans	0.831**J**		0.504	25.3	1.14		1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	03/21/25 09:25
Sample Matrix:	Water	**Date Received:**	03/21/25 18:41
Sample Name:	2392060	**Units:**	Percent
Lab Code:	E2500232-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/02/25 08:52
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	990mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552097	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552085

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	724.191	36		25-164	0.78	1.024
13C-1,2,3,7,8-PeCDD	2000	911.413	46		25-181	1.57	1.210
13C-1,2,3,4,7,8-HxCDD	2000	831.461	42		32-141	1.30	0.991
13C-1,2,3,6,7,8-HxCDD	2000	863.557	43		28-130	1.27	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	905.468	45		23-140	1.05	1.068
13C-OCDD	4000	1841.735	46		17-157	0.89	1.138
13C-2,3,7,8-TCDF	2000	551.997	28		24-169	0.80	0.991
13C-1,2,3,7,8-PeCDF	2000	749.649	37		24-185	1.60	1.163
13C-2,3,4,7,8-PeCDF	2000	800.169	40		21-178	1.59	1.199
13C-1,2,3,4,7,8-HxCDF	2000	774.203	39		26-152	0.50	0.970
13C-1,2,3,6,7,8-HxCDF	2000	719.887	36		26-123	0.51	0.973
13C-1,2,3,7,8,9-HxCDF	2000	682.370	34		29-147	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	639.443	32		28-136	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	712.721	36		28-143	0.44	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	783.028	39		26-138	0.43	1.080
37Cl-2,3,7,8-TCDD	800	1174.540	147		35-197	NA	1.025

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	03/21/25 09:25
Sample Matrix:	Water	**Date Received:**	03/21/25 18:41
Sample Name:	2392060	**Units:**	pg/L
Lab Code:	E2500232-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	4.55	5.05	1	1	
1,2,3,7,8-PeCDD	ND	2.01	25.3	1	1	
1,2,3,4,7,8-HxCDD	**1.73**	0.512	25.3	1	0.1	0.173
1,2,3,6,7,8-HxCDD	**0.672**	0.448	25.3	1	0.1	0.0672
1,2,3,7,8,9-HxCDD	ND	0.465	25.3	1	0.1	
1,2,3,4,6,7,8-HpCDD	**3.78**	0.485	25.3	1	0.01	0.0378
OCDD	**12.1**	1.87	50.5	1	0.0003	0.00363
2,3,7,8-TCDF	ND	4.23	5.05	1	0.1	
1,2,3,7,8-PeCDF	ND	2.01	25.3	1	0.03	
2,3,4,7,8-PeCDF	ND	1.79	25.3	1	0.3	
1,2,3,4,7,8-HxCDF	**1.32**	0.605	25.3	1	0.1	0.132
1,2,3,6,7,8-HxCDF	**1.13**	0.597	25.3	1	0.1	0.113
1,2,3,7,8,9-HxCDF	**1.45**	0.819	25.3	1	0.1	0.145
2,3,4,6,7,8-HxCDF	ND	0.738	25.3	1	0.1	
1,2,3,4,6,7,8-HpCDF	**1.61**	0.471	25.3	1	0.01	0.0161
1,2,3,4,7,8,9-HpCDF	ND	0.541	25.3	1	0.01	
OCDF	**5.14**	2.00	50.5	1	0.0003	0.00154
		Total TEQ				0.689

2005 WHO TEFs, ND = 0

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg/L
Lab Code:	EQ2500125-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/01/25 13:34
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552074	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552072

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.699	5.00			1
1,2,3,7,8-PeCDD	0.649**JK**		0.429	25.0	1.11	1.001	1
1,2,3,4,7,8-HxCDD	1.92**JK**		0.254	25.0	1.44	1.000	1
1,2,3,6,7,8-HxCDD	0.492**J**		0.228	25.0	1.18	1.000	1
1,2,3,7,8,9-HxCDD	0.447**JK**		0.235	25.0	1.83	1.007	1
1,2,3,4,6,7,8-HpCDD	2.00**JK**		0.270	25.0	0.79	1.001	1
OCDD	11.1**JK**		0.581	50.0	0.72	1.000	1
2,3,7,8-TCDF	ND	U	0.769	5.00			1
1,2,3,7,8-PeCDF	ND	U	0.432	25.0			1
2,3,4,7,8-PeCDF	0.531**JK**		0.393	25.0	1.03	1.001	1
1,2,3,4,7,8-HxCDF	0.608**J**		0.237	25.0	1.22	1.000	1
1,2,3,6,7,8-HxCDF	0.478**JK**		0.231	25.0	1.61	1.000	1
1,2,3,7,8,9-HxCDF	1.23**JK**		0.331	25.0	0.81	1.001	1
2,3,4,6,7,8-HxCDF	0.477**JK**		0.280	25.0	1.72	1.000	1
1,2,3,4,6,7,8-HpCDF	0.953**JK**		0.0980	25.0	1.71	1.000	1
1,2,3,4,7,8,9-HpCDF	0.722**JK**		0.113	25.0	1.38	1.000	1
OCDF	8.74**J**		0.732	50.0	0.79	1.004	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg/L
Lab Code:	EQ2500125-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/01/25 13:34
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552074	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552072

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	0.699	5.00			1
Total Penta-Dioxins	ND	U	0.429	25.0			1
Total Hexa-Dioxins	0.492**J**		0.238	25.0	1.18		1
Total Hepta-Dioxins	2.11**J**		0.270	25.0	1.04		1
Total Tetra-Furans	ND	U	0.769	5.00			1
Total Penta-Furans	ND	U	0.412	25.0			1
Total Hexa-Furans	0.608**J**		0.265	25.0	1.22		1
Total Hepta-Furans	ND	U	0.105	25.0			1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	EQ2500125-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/01/25 13:34
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552074	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552072

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1337.757	67		25-164	0.78	1.025
13C-1,2,3,7,8-PeCDD	2000	1340.645	67		25-181	1.57	1.211
13C-1,2,3,4,7,8-HxCDD	2000	1292.206	65		32-141	1.27	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1323.244	66		28-130	1.28	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1180.944	59		23-140	1.07	1.068
13C-OCDD	4000	1808.944	45		17-157	0.98	1.139
13C-2,3,7,8-TCDF	2000	1023.392	51		24-169	0.78	0.991
13C-1,2,3,7,8-PeCDF	2000	1126.804	56		24-185	1.59	1.164
13C-2,3,4,7,8-PeCDF	2000	1162.831	58		21-178	1.59	1.200
13C-1,2,3,4,7,8-HxCDF	2000	1213.742	61		26-152	0.51	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1140.892	57		26-123	0.52	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1035.270	52		29-147	0.52	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1020.488	51		28-136	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	975.270	49		28-143	0.44	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1037.408	52		26-138	0.43	1.080
37Cl-2,3,7,8-TCDD	800	1413.649	177		35-197	NA	1.025

Accuracy & Precision

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Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Analyzed:**	04/01/25
Sample Matrix:	Water	**Date Extracted:**	03/26/25

Duplicate Lab Control Sample Summary
Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Units:**	pg/L
Prep Method:	Method Sep Funnel/Jar	**Basis:**	NA
		Analysis Lot:	874719

	Lab Control Sample EQ2500125-02			Duplicate Lab Control Sample EQ2500125-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,3,4,6,7,8-HpCDD	885	1000	89	880	1000	88	70-140	<1	50
1,2,3,4,7,8-HxCDD	883	1000	88	914	1000	91	70-164	4	50
1,2,3,6,7,8-HxCDD	776	1000	78	762	1000	76	76-134	2	50
1,2,3,7,8,9-HxCDD	850	1000	85	851	1000	85	64-162	<1	50
1,2,3,7,8-PeCDD	845	1000	84	847	1000	85	70-142	<1	50
2,3,7,8-TCDD	167	200	83	168	200	84	67-158	<1	50
OCDD	1760	2000	88	1760	2000	88	78-144	<1	50
1,2,3,4,6,7,8-HpCDF	895	1000	90	894	1000	89	82-122	<1	50
1,2,3,4,7,8,9-HpCDF	876	1000	88	795	1000	80	78-138	10	50
1,2,3,4,7,8-HxCDF	775	1000	78	782	1000	78	72-134	<1	50
1,2,3,6,7,8-HxCDF	849	1000	85	841	1000	84	84-130	<1	50
1,2,3,7,8,9-HxCDF	910	1000	91	927	1000	93	78-130	2	50
1,2,3,7,8-PeCDF	865	1000	86	862	1000	86	80-134	<1	50
2,3,4,6,7,8-HxCDF	905	1000	90	913	1000	91	70-156	<1	50
2,3,4,7,8-PeCDF	800	1000	80	799	1000	80	68-160	<1	50
2,3,7,8-TCDF	159	200	80	160	200	80	75-158	<1	50
OCDF	1650	2000	83	1670	2000	83	63-170	1	50

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500125-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/01/25 20:11
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552082	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552072

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	167		1.15	5.00	0.75	1.001	1
1,2,3,7,8-PeCDD	845		0.649	25.0	1.58	1.000	1
1,2,3,4,7,8-HxCDD	883		0.282	25.0	1.27	1.000	1
1,2,3,6,7,8-HxCDD	776		0.253	25.0	1.28	1.000	1
1,2,3,7,8,9-HxCDD	850		0.260	25.0	1.22	1.007	1
1,2,3,4,6,7,8-HpCDD	885		0.397	25.0	1.04	1.000	1
OCDD	1760		0.781	50.0	0.88	1.000	1
2,3,7,8-TCDF	159		0.834	5.00	0.69	1.001	1
1,2,3,7,8-PeCDF	865		0.496	25.0	1.46	1.000	1
2,3,4,7,8-PeCDF	800		0.453	25.0	1.48	1.000	1
1,2,3,4,7,8-HxCDF	775		0.187	25.0	1.14	1.000	1
1,2,3,6,7,8-HxCDF	849		0.184	25.0	1.15	1.000	1
1,2,3,7,8,9-HxCDF	910		0.250	25.0	1.13	1.000	1
2,3,4,6,7,8-HxCDF	905		0.221	25.0	1.15	1.000	1
1,2,3,4,6,7,8-HpCDF	895		0.980	25.0	0.99	1.000	1
1,2,3,4,7,8,9-HpCDF	876		1.09	25.0	1.01	1.000	1
OCDF	1650		0.859	50.0	0.85	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500125-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/01/25 20:11
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552082	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552072

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	168		1.15	5.00	0.75		1
Total Penta-Dioxins	845		0.649	25.0	1.58		1
Total Hexa-Dioxins	2510		0.265	25.0	1.27		1
Total Hepta-Dioxins	885		0.397	25.0	1.04		1
Total Tetra-Furans	159		0.834	5.00	0.69		1
Total Penta-Furans	1670		0.474	25.0	1.60		1
Total Hexa-Furans	3370		0.207	25.0	1.14		1
Total Hepta-Furans	1770		1.03	25.0	0.99		1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	Percent
Lab Code:	EQ2500125-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/01/25 20:11
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552082	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552072

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1698.611	85		25-164	0.78	1.025
13C-1,2,3,7,8-PeCDD	2000	1834.791	92		25-181	1.57	1.211
13C-1,2,3,4,7,8-HxCDD	2000	1739.105	87		32-141	1.28	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1765.196	88		28-130	1.27	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1620.373	81		23-140	1.08	1.068
13C-OCDD	4000	2873.832	72		17-157	0.91	1.138
13C-2,3,7,8-TCDF	2000	1302.081	65		24-169	0.79	0.991
13C-1,2,3,7,8-PeCDF	2000	1510.423	76		24-185	1.60	1.164
13C-2,3,4,7,8-PeCDF	2000	1591.868	80		21-178	1.59	1.200
13C-1,2,3,4,7,8-HxCDF	2000	1597.548	80		26-152	0.51	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1468.807	73		26-123	0.51	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1446.520	72		29-147	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1369.222	68		28-136	0.52	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1291.530	65		28-143	0.44	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1402.745	70		26-138	0.43	1.080
37Cl-2,3,7,8-TCDD	800	2034.430	254	**Y**	35-197	NA	1.025

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500125-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/01/25 21:00
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552083	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552072

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	168		1.82	5.00	0.73	1.001	1
1,2,3,7,8-PeCDD	847		0.823	25.0	1.62	1.001	1
1,2,3,4,7,8-HxCDD	914		0.657	25.0	1.31	1.000	1
1,2,3,6,7,8-HxCDD	762		0.591	25.0	1.19	1.000	1
1,2,3,7,8,9-HxCDD	851		0.607	25.0	1.26	1.007	1
1,2,3,4,6,7,8-HpCDD	880		0.584	25.0	1.04	1.000	1
OCDD	1760		3.15	50.0	0.90	1.000	1
2,3,7,8-TCDF	160		1.55	5.00	0.72	1.001	1
1,2,3,7,8-PeCDF	862		0.763	25.0	1.44	1.001	1
2,3,4,7,8-PeCDF	799		0.687	25.0	1.48	1.001	1
1,2,3,4,7,8-HxCDF	782		0.271	25.0	1.15	1.000	1
1,2,3,6,7,8-HxCDF	841		0.271	25.0	1.16	1.000	1
1,2,3,7,8,9-HxCDF	927		0.383	25.0	1.16	1.000	1
2,3,4,6,7,8-HxCDF	913		0.327	25.0	1.14	1.000	1
1,2,3,4,6,7,8-HpCDF	894		0.706	25.0	0.97	1.000	1
1,2,3,4,7,8,9-HpCDF	795		0.838	25.0	0.99	1.000	1
OCDF	1670		1.27	50.0	0.87	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500125-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/01/25 21:00
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552083	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552072

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	168		1.82	5.00	0.73		1
Total Penta-Dioxins	847		0.823	25.0	1.62		1
Total Hexa-Dioxins	2530		0.617	25.0	1.31		1
Total Hepta-Dioxins	880		0.584	25.0	1.04		1
Total Tetra-Furans	160		1.55	5.00	0.72		1
Total Penta-Furans	1660		0.724	25.0	1.71		1
Total Hexa-Furans	3400		0.307	25.0	1.15		1
Total Hepta-Furans	1690		0.767	25.0	0.97		1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	Percent
Lab Code:	EQ2500125-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/01/25 21:00
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552083	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552072

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1086.808	54		25-164	0.79	1.024
13C-1,2,3,7,8-PeCDD	2000	1137.046	57		25-181	1.57	1.210
13C-1,2,3,4,7,8-HxCDD	2000	1151.431	58		32-141	1.28	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1205.852	60		28-130	1.30	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1097.361	55		23-140	1.08	1.068
13C-OCDD	4000	1963.863	49		17-157	0.91	1.138
13C-2,3,7,8-TCDF	2000	838.402	42		24-169	0.79	0.991
13C-1,2,3,7,8-PeCDF	2000	939.277	47		24-185	1.59	1.163
13C-2,3,4,7,8-PeCDF	2000	998.006	50		21-178	1.62	1.199
13C-1,2,3,4,7,8-HxCDF	2000	1086.205	54		26-152	0.51	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1009.939	50		26-123	0.50	0.973
13C-1,2,3,7,8,9-HxCDF	2000	933.575	47		29-147	0.53	1.008
13C-2,3,4,6,7,8-HxCDF	2000	914.751	46		28-136	0.52	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	888.962	44		28-143	0.43	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	916.110	46		26-138	0.42	1.080
37Cl-2,3,7,8-TCDD	800	1320.128	165		35-197	NA	1.025

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SAMPLE CROSS REFERENCE

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Sample	Sample ID	Taken	Time	Received
2393856	*BT TPDES Permit Comp*	03/27/2025	07:00:00	03/27/2025

Bottle 01 Polyethylene 1/2 gal (White)
Bottle 02 Polyethylene 1/2 gal (White)
Bottle 03 Polyethylene Quart
Bottle 04 16 oz HNO3 Metals Plastic
Bottle 05 NaOH to pH >9 and Zinc Acetate Polyethylene 250 mL
Bottle 06 8 oz Plastic H2SO4 pH < 2
Bottle 07 EDTA Preserved 250 ml Polyethylene
Bottle 08 8 oz Plastic H2SO4 pH < 2
Bottle 09 8 oz Plastic H2SO4 pH < 2
Bottle 10 Cr+6 Preserved 250 Polyethylene
Bottle 11 H2SO4 to pH <2 Amber Glass 250 mL w/Teflon lined lid(4)
Bottle 12 Amber 32 Oz
Bottle 13 Amber 32 Oz
Bottle 14 Amber 32 Oz
Bottle 15 Amber 32 Oz
Bottle 16 Amber 32 Oz
Bottle 17 Amber 32 Oz
Bottle 18 Amber 32 Oz
Bottle 19 Amber 32 Oz
Bottle 20 Amber 32 Oz
Bottle 21 Amber 32 Oz
Bottle 22 Amber 32 Oz
Bottle 23 Amber 32 Oz
Bottle 24 Amber 32 Oz
Bottle 25 Prepared Bottle: 2 mL Autosampler Vial (Batch 1167572) Volume: 1.00000 mL <== Derived from 12 (977 ml)
Bottle 26 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1167613) Volume: 6.00000 mL <== Derived from 08 (6 ml)
Bottle 27 BOD Titration Beaker A (Batch 1167635) Volume: 100.00000 mL <== Derived from 03 (100 ml)
Bottle 28 BOD Analytical Beaker B (Batch 1167635) Volume: 100.00000 mL <== Derived from 03 (100 ml)
Bottle 29 BOD Titration Beaker A (Batch 1167634) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 30 BOD Analytical Beaker B (Batch 1167634) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 31 Prepared Bottle: ICP Preparation for Metals (Batch 1167652) Volume: 50.00000 mL <== Derived from 04 (50 ml)
Bottle 32 Prepared Bottle: ICP Preparation for Metals (Batch 1167652) Volume: 50.00000 mL <== Derived from 04 (50 ml)
Bottle 33 Prepared Bottle: ICP Preparation for Metals (Batch 1167652) Volume: 50.00000 mL <== Derived from 04 (50 ml)
Bottle 34 Prepared Bottle: 2 mL Autosampler Vial (Batch 1167676) Volume: 5.00000 mL <== Derived from 16 (957 ml)
Bottle 35 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1167687) Volume: 20.00000 mL <== Derived from 06 (20 ml)
Bottle 36 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1167895) Volume: 1.00000 mL <== Derived from 14 (1000 ml)
Bottle 37 Prepared Bottle: GCXL\GCXS 2 mL Autosampler Vial (Batch 1167899) Volume: 1.00000 mL <== Derived from 14 (1000 ml)
Bottle 38 Prepared Bottle: OPXL/OPXS 2 mL Autosampler Vial (Batch 1167905) Volume: 1.00000 mL <== Derived from 14 (1000 ml)
Bottle 39 Prepared Bottle:PCBL 2 mL Autosampler Vial (Batch 1167907) Volume: 1.00000 mL <== Derived from 14 (1000 ml)
Bottle 40 Prepared Bottle: 2 mL Autosampler Vial (Batch 1168083) Volume: 10.00000 mL <== Derived from 17 (999 ml)

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Bottle 41 Prepared Bottle: 2 mL Autosampler Vial (Batch 1168553) Volume: 1.00000 mL <== Derived from 18 (1009 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 608.3	37	1167899	03/31/2025	1168867	04/02/2025
EPA 608.3	37	1167899	03/31/2025	1169467	04/02/2025
EPA 615	40	1168083	04/01/2025	1168894	04/04/2025
EPA 300.0 2.1	01	1167786	03/27/2025	1167786	03/27/2025
EPA 632	36	1167895	03/31/2025	1168631	04/02/2025
EPA 604.1	34	1167676	03/28/2025	1167960	03/31/2025
EPA 1657	38	1167905	03/31/2025	1168306	04/01/2025
EPA 617	37	1167899	03/31/2025	1168859	04/02/2025
EPA 625.1	25	1167572	03/27/2025	1169408	04/07/2025
TX 1001	41	1168553	04/03/2025	1169722	04/09/2025
EPA 200.8 5.4	31	1167652	03/28/2025	1168097	04/01/2025
EPA 200.8 5.4	31	1167652	03/28/2025	1167869	03/28/2025
EPA 200.7 4.4	31	1167652	03/28/2025	1167701	03/28/2025
EPA 200.8 5.4	31	1167652	03/28/2025	1168008	04/01/2025
EPA 200.7 4.4	31	1167652	03/28/2025	1167705	03/28/2025
EPA 200.7, Rev. 4.4	31	1167652	03/28/2025	1167701	03/28/2025
SM 2320 B-2011	02	1168742	04/04/2025	1168742	04/04/2025
SM 5210 B-2016	01	1167634	04/02/2025	1167634	04/02/2025
SM 5210 B-2016 (TCMP Inhibitor)	03	1167635	04/02/2025	1167635	04/02/2025
SM 5220 D-2011	08	1168204	04/01/2025	1168204	04/01/2025
SM 2120 B-2011	13	1167646	03/28/2025	1167646	03/28/2025
Calculation			03/31/2025		03/31/2025
SM 3500-Cr B-2011	10	1167740	03/27/2025	1167740	03/27/2025
SM 3500-Cr B-2011		1167536	03/27/2025	1167536	03/27/2025
SM 5540 C-2011	01	1167888	03/28/2025	1167888	03/28/2025
EPA 350.1 2	26	1167613	03/27/2025	1168121	04/01/2025
EPA 351.2 minus EPA 350.1			04/02/2025		04/02/2025
SM 4500-$S2^{-}$ D-2011	05	1167729	03/28/2025	1167729	03/28/2025
SM 4500-$SO3^{-}$ B-2011/EPA 377.1	07	1167651	03/27/2025	1167651	03/27/2025
SM 2540 C-2020	03	1168442	04/01/2025	1168442	04/01/2025
EPA 351.2 2	35	1167687	03/28/2025	1168178	04/01/2025
Calculation	35	1167687	03/28/2025	1168178	04/02/2025
SM 5310 C-2014	11	1167670	03/28/2025	1167670	03/28/2025
SM 2540 D-2020	01	1168499	04/02/2025	1168499	04/02/2025

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RESULTS

Sample Results

2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 07:00 3/27/25 *Taken:* 03/27/2025 07:00:00
#1 Autosampler #7241 Bottle #001501

Sample poured Date:3/27/25 Time:0910

#2 Autosampler #6358 Bottle #001726

Sample poured Date:3/27/25 Time:0920

Prepared: 03/27/2025 14:30:32 *Calculated* 03/27/2025 14:30:32 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**2 Composite Sampler Rentals**	**Verified**					

Calculation *Prepared:* 03/31/2025 17:20:55 *Calculated* 03/31/2025 17:20:55 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Trivalent Chromium**	**<0.003**	**mg/L**	0.003		**16065-83-1**	

Calculation *Prepared:* 1167687 03/28/2025 10:38:33 *Calculated* 1168178 04/02/2025 07:35:17 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Nitrogen (as N)**	**1.474**	**mg/L**	0.050			35

EPA 1657 *Prepared:* 1167905 03/31/2025 12:50:00 *Analyzed* 1168306 04/01/2025 20:12:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Azinphos-methyl (Guthion)**	**<0.050**	**ug/L**	0.050		**86-50-0**	38
z	**Chlorpyrifos**	**<0.050**	**ug/L**	0.050		**2921-88-2**	38
z	**Demeton**	**<0.050**	**ug/L**	0.050		**8065-48-3**	38
z	**Diazinon**	**<0.050**	**ug/L**	0.050		**333-41-5**	38
z	**Malathion**	**<0.050**	**ug/L**	0.050		**121-75-5**	38
z	**Parathion, ethyl**	**<0.050**	**ug/L**	0.050		**56-38-2**	38
z	**Parathion, methyl**	**<0.050**	**ug/L**	0.050		**298-00-0**	38

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2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 07:00 3/27/25 *Taken:* 03/27/2025 07:00:00

#1 Autosampler #7241 Bottle #001501

Sample poured Date:3/27/25 Time:0910

#2 Autosampler #6358 Bottle #001726

Sample poured Date:3/27/25 Time:0920

EPA 200.7 4.4 *Prepared:* 1167652 03/28/2025 06:00:00 *Analyzed* 1167701 03/28/2025 10:35:00 *CAS*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Boron**	**0.0183**	**mg/L**	0.008		**7440-42-8**	31
NELAC	**Phosphorus**	**0.217**	**mg/L**	0.040		**7723-14-0**	31
NELAC	**Tin, Total**	**<0.010**	**mg/L**	0.010		**7440-31-5**	31

EPA 200.7 4.4 *Prepared:* 1167652 03/28/2025 06:00:00 *Analyzed* 1167705 03/28/2025 10:40:00 *CAS*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Iron, Total**	**0.104**	**mg/L**	0.025		**7439-89-6**	31
NELAC	**Magnesium, Total**	**2.11**	**mg/L**	0.500		**7439-95-4**	31

EPA 200.7, Rev. 4.4 *Prepared:* 1167652 03/28/2025 06:00:00 *Analyzed* 1167701 03/28/2025 10:35:00 *CAS*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Titanium**	**<0.040**	**mg/L**	0.040		**7440-32-6**	31

EPA 200.8 5.4 *Prepared:* 1167652 03/28/2025 06:00:00 *Analyzed* 1167869 03/28/2025 18:54:00 *ESG*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Aluminum, Total**	**0.0118**	**mg/L**	0.005		**7429-90-5**	31
NELAC	**Antimony, Total**	**<0.003**	**mg/L**	0.003		**7440-36-0**	31
NELAC	**Arsenic, Total**	**<0.001**	**mg/L**	0.001		**7440-38-2**	31
NELAC	**Beryllium, Total**	**<0.000162**	**mg/L**	0.000162		**7440-41-7**	31
NELAC	**Cadmium, Total**	**<0.001**	**mg/L**	0.001		**7440-43-9**	31
NELAC	**Chromium, Total**	**<0.001**	**mg/L**	0.001		**7440-47-3**	31
NELAC	**Cobalt, Total**	**0.00172**	**mg/L**	0.001		**7440-48-4**	31
NELAC	**Copper, Total**	**0.00452**	**mg/L**	0.001		**7440-50-8**	31
NELAC	**Manganese, Total**	**0.0239**	**mg/L**	0.001		**7439-96-5**	31
NELAC	**Molybdenum, Total**	**0.00152**	**mg/L**	0.001		**7439-98-7**	31
NELAC	**Nickel, Total**	**0.00221**	**mg/L**	0.001		**7440-02-0**	31
NELAC	**Zinc, Total**	**0.0184**	**mg/L**	0.001		**7440-66-6**	31

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2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 07:00 3/27/25 *Taken:* 03/27/2025 07:00:00

#1 Autosampler #7241 Bottle #001501

Sample poured Date:3/27/25 Time:0910

#2 Autosampler #6358 Bottle #001726

Sample poured Date:3/27/25 Time:0920

EPA 200.8 5.4 *Prepared:* 1167652 03/28/2025 06:00:00 *Analyzed* 1168008 04/01/2025 02:25:00 HLT

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Barium, Total**	**0.102**	**mg/L**	0.005		**7440-39-3**	31
NELAC	**Lead, Total**	**<0.0005**	**mg/L**	0.0005		**7439-92-1**	31
NELAC	**Selenium, Total**	**<0.005**	**mg/L**	0.005		**7782-49-2**	31
NELAC	**Thallium, Total**	**<0.000966**	**mg/L**	0.000966		**7440-28-0**	31

EPA 200.8 5.4 *Prepared:* 1167652 03/28/2025 06:00:00 *Analyzed* 1168097 04/01/2025 13:11:00 HLT

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Silver, Total**	**<0.001**	**mg/L**	0.001		**7440-22-4**	31

EPA 300.0 2.1 *Prepared:* 1167786 03/27/2025 16:45:00 *Analyzed* 1167786 03/27/2025 16:45:00 KRA

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Bromide**	**<0.4**	**mg/L**	0.4			01
NELAC	**Chloride**	**22.6**	**mg/L**	3.00			01
NELAC	**Fluoride**	**<0.5**	**mg/L**	0.5			01
NELAC	**Nitrate-Nitrite Nitrogen**	**1.05**	**mg/L**	0.530			01
NELAC	**Nitrate-Nitrogen Total**	**1.05**	**mg/L**	0.226		**14797-55-8**	01
NELAC	**Sulfate**	**14.1**	**mg/L**	3.00			01

EPA 350.1 2 *Prepared:* 1167613 03/27/2025 16:49:01 *Analyzed* 1168121 04/01/2025 06:34:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Ammonia Nitrogen**	**<0.020**	**mg/L**	0.020			26

EPA 351.2 2 *Prepared:* 1167687 03/28/2025 10:38:33 *Analyzed* 1168178 04/01/2025 09:48:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Kjeldahl Nitrogen**	**0.424**	**mg/L**	0.050		**7727-37-9**	35

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2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 07:00 3/27/25 *Taken:* 03/27/2025 07:00:00
#1 Autosampler #7241 Bottle #001501

Sample poured Date:3/27/25 Time:0910

#2 Autosampler #6358 Bottle #001726

Sample poured Date:3/27/25 Time:0920

EPA 351.2 minus EPA 350.1 *Prepared:* *04/02/2025 07:35:17* *Calculated* *04/02/2025 07:35:17* *CAL*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Nitrogen, Total Organic (as N)**	**0.404**	**mg/L**	0.050			

EPA 604.1 *Prepared:* *1167676 03/28/2025 09:35:00* *Analyzed* *1167960 03/31/2025 04:00:00* *BRU*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Hexachlorophene**	**<2.61**	**ug/L**	2.61		**70-30-4**	34

EPA 608.3 *Prepared:* *1167899 03/31/2025 13:03:29* *Analyzed* *1168867 04/02/2025 20:16:00* *KAP*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**4,4-DDD**	**<0.010**	**ug/L**	0.010		**72-54-8**	37
NELAC	**4,4-DDE**	**<0.010**	**ug/L**	0.010		**72-55-9**	37
NELAC	**4,4-DDT**	**<0.010**	**ug/L**	0.010	S	**50-29-3**	37
NELAC	**Aldrin**	**<0.010**	**ug/L**	0.010		**309-00-2**	37
NELAC	**Alpha-BHC(hexachlorocyclohexane)**	**0.0342**	**ug/L**	0.010		**319-84-6**	37
NELAC	**Beta-BHC(hexachlorocyclohexane)**	**<0.010**	**ug/L**	0.010		**319-85-7**	37
NELAC	**Chlordane**	**<0.200**	**ug/L**	0.200		**57-74-9**	37
NELAC	**Delta-BHC(hexachlorocyclohexane)**	**<0.010**	**ug/L**	0.010		**319-86-8**	37
NELAC	**Dieldrin**	**<0.010**	**ug/L**	0.010		**60-57-1**	37
NELAC	**Endosulfan I (alpha)**	**<0.010**	**ug/L**	0.010		**959-98-8**	37
NELAC	**Endosulfan II (beta)**	**<0.010**	**ug/L**	0.010		**33213-65-9**	37
NELAC	**Endosulfan sulfate**	**<0.010**	**ug/L**	0.010		**1031-07-8**	37
NELAC	**Endrin**	**<0.010**	**ug/L**	0.010		**72-20-8**	37
NELAC	**Endrin aldehyde**	**<0.010**	**ug/L**	0.010		**7421-93-4**	37
NELAC	**Gamma-BHC(Lindane)**	**<0.010**	**ug/L**	0.010		**58-89-9**	37
NELAC	**Heptachlor**	**<0.010**	**ug/L**	0.010		**76-44-8**	37
NELAC	**Heptachlor epoxide**	**<0.010**	**ug/L**	0.010		**1024-57-3**	37
NELAC	**PCB-1016**	**<0.202**	**ug/L**	0.202	X	**12674-11-2**	37
NELAC	**PCB-1221**	**<0.200**	**ug/L**	0.200		**11104-28-2**	37
NELAC	**PCB-1232**	**<0.200**	**ug/L**	0.200		**11141-16-5**	37

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Printed: 05/16/2025

2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 07:00 3/27/25 *Taken:* 03/27/2025 07:00:00
#1 Autosampler #7241 Bottle #001501

Sample poured Date:3/27/25 Time:0910

#2 Autosampler #6358 Bottle #001726

Sample poured Date:3/27/25 Time:0920

EPA 608.3 *Prepared:* 1167899 03/31/2025 13:03:29 *Analyzed* 1169467 04/02/2025 20:16:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1242	<0.200	ug/L	0.200		53469-21-9	37
NELAC	PCB-1248	<0.200	ug/L	0.200		12672-29-6	37
NELAC	PCB-1254	<0.200	ug/L	0.200		11097-69-1	37
NELAC	PCB-1260	<0.200	ug/L	0.200	X	11096-82-5	37
NELAC	PCB-1262	<0.200	ug/L	0.200		37324-23-5	37
NELAC	PCB-1268	<0.200	ug/L	0.200		11100-14-4	37
NELAC	Toxaphene	<0.200	ug/L	0.200		8001-35-2	37

EPA 615 *Prepared:* 1168083 04/01/2025 14:00:00 *Analyzed* 1168894 04/04/2025 14:37:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	2,4 Dichlorophenoxyacetic acid	<0.501	ug/L	0.501		94-75-7	40
NELAC	2,4,5-TP (Silvex)	<0.300	ug/L	0.300		93-72-1	40

EPA 617 *Prepared:* 1167899 03/31/2025 13:03:29 *Analyzed* 1168859 04/02/2025 20:16:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Kelthane (Dicofol)	<0.050	ug/L	0.050	XS	115-32-2	37
z	Methoxychlor	<0.010	ug/L	0.010	S	72-43-5	37
z	Mirex	<0.010	ug/L	0.010		2385-85-5	37

EPA 625.1 *Prepared:* 1167572 03/27/2025 14:30:00 *Analyzed* 1169408 04/07/2025 21:37:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	1,2,4,5-Tetrachlorobenzene	<1.05	ug/L	1.05		95-94-3	25
NELAC	1,2,4-Trichlorobenzene	<1.02	ug/L	1.02	S	120-82-1	25
NELAC	1,2-Dichlorobenzene	<5.12	ug/L	5.12		95-50-1	25
NELAC	1,2-DPH (as azobenzene)	<1.02	ug/L	1.02		122-66-7	25
NELAC	1,3-Dichlorobenzene	<5.12	ug/L	5.12		541-73-1	25
NELAC	1,4-Dichlorobenzene	<5.12	ug/L	5.12		106-46-7	25

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2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 07:00 3/27/25 *Taken:* 03/27/2025 07:00:00

#1 Autosampler #7241 Bottle #001501

Sample poured Date:3/27/25 Time:0910

#2 Autosampler #6358 Bottle #001726

Sample poured Date:3/27/25 Time:0920

EPA 625.1 *Prepared:* 1167572 03/27/2025 14:30:00 *Analyzed* 1169408 04/07/2025 21:37:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	2,4,5-Trichlorophenol	<5.12	ug/L	5.12		95-95-4	25
NELAC	2,4,6-Trichlorophenol	<2.05	ug/L	2.05		88-06-2	25
NELAC	2,4-Dichlorophenol	<1.02	ug/L	1.02		120-83-2	25
NELAC	2,4-Dimethylphenol	<1.02	ug/L	1.02		105-67-9	25
NELAC	2,4-Dinitrophenol	<2.05	ug/L	2.05		51-28-5	25
NELAC	2,4-Dinitrotoluene	<2.05	ug/L	2.05		121-14-2	25
NELAC	2,6-Dinitrotoluene	<2.05	ug/L	2.05		606-20-2	25
NELAC	2-Chloronaphthalene	<1.02	ug/L	1.02	S	91-58-7	25
NELAC	2-Chlorophenol	<1.02	ug/L	1.02		95-57-8	25
NELAC	2-Methylphenol (o-Cresol)	<10.0	ug/L	10.0		95-48-7	25
NELAC	2-Nitrophenol	<1.02	ug/L	1.02		88-75-5	25
NELAC	3&4-Methylphenol (m&p-Cresol)	<8.19	ug/L	8.19		MEPH34	25
NELAC	3,3'-Dichlorobenzidine	<2.05	ug/L	2.05		91-94-1	25
NELAC	4,6-Dinitro-2-methylphenol	<2.05	ug/L	2.05	X	534-52-1	25
NELAC	4-Bromophenyl phenyl ether	<1.02	ug/L	1.02		101-55-3	25
NELAC	4-Chlorophenyl phenyl ethe	<1.02	ug/L	1.02		7005-72-3	25
NELAC	4-Nitrophenol	<1.02	ug/L	1.02		100-02-7	25
NELAC	Acenaphthene	<1.02	ug/L	1.02		83-32-9	25
NELAC	Acenaphthylene	<1.02	ug/L	1.02		208-96-8	25
NELAC	Anthracene	<1.02	ug/L	1.02		120-12-7	25
NELAC	Benzidine	<1.54	ug/L	1.54		92-87-5	25
NELAC	Benzo(a)anthracene	<1.02	ug/L	1.02		56-55-3	25
NELAC	Benzo(a)pyrene	<1.02	ug/L	1.02		50-32-8	25
NELAC	Benzo(b)fluoranthene	<1.02	ug/L	1.02		205-99-2	25
NELAC	Benzo(ghi)perylene	<1.02	ug/L	1.02		191-24-2	25
NELAC	Benzo(k)fluoranthene	<1.02	ug/L	1.02		207-08-9	25
NELAC	Benzyl Butyl phthalate	<7.68	ug/L	7.68		85-68-7	25
NELAC	Bis(2-chloroethoxy)methane	<1.02	ug/L	1.02		111-91-1	25
NELAC	Bis(2-chloroethyl)ether	<1.02	ug/L	1.02		111-44-4	25
NELAC	Bis(2-chloroisopropyl)ether	<1.02	ug/L	1.02		108-60-1	25
NELAC	Bis(2-ethylhexyl)phthalate	<7.68	ug/L	7.68		117-81-7	25

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2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 07:00 3/27/25 *Taken:* 03/27/2025 07:00:00
#1 Autosampler #7241 Bottle #001501

Sample poured Date:3/27/25 Time:0910

#2 Autosampler #6358 Bottle #001726

Sample poured Date:3/27/25 Time:0920

EPA 625.1 *Prepared:* 1167572 03/27/2025 14:30:00 *Analyzed* 1169408 04/07/2025 21:37:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chrysene (Benzo(a)phenanthrene)	<1.02	ug/L	1.02		218-01-9	25
NELAC	Dibenz(a,h)anthracene	<1.02	ug/L	1.02		53-70-3	25
NELAC	Diethyl phthalate	<5.83	ug/L	5.83		84-66-2	25
NELAC	Dimethyl phthalate	<4.91	ug/L	4.91		131-11-3	25
NELAC	Di-n-butylphthalate	<7.68	ug/L	7.68		84-74-2	25
NELAC	Di-n-octylphthalate	<2.05	ug/L	2.05		117-84-0	25
NELAC	Fluoranthene(Benzo(j,k)fluorene)	<1.02	ug/L	1.02		206-44-0	25
NELAC	Fluorene	<1.02	ug/L	1.02		86-73-7	25
NELAC	Hexachlorobenzene	<1.02	ug/L	1.02		118-74-1	25
NELAC	Hexachlorobutadiene	<1.05	ug/L	1.05		87-68-3	25
NELAC	Hexachlorocyclopentadiene	<1.02	ug/L	1.02		77-47-4	25
NELAC	Hexachloroethane	<2.05	ug/L	2.05	S	67-72-1	25
NELAC	Indeno(1,2,3-cd)pyrene	<1.02	ug/L	1.02		193-39-5	25
NELAC	Isophorone	<1.02	ug/L	1.02		78-59-1	25
NELAC	Naphthalene	<1.02	ug/L	1.02		91-20-3	25
NELAC	Nitrobenzene	<1.02	ug/L	1.02		98-95-3	25
NELAC	n-Nitrosodiethylamine	<1.02	ug/L	1.02		55-18-5	25
NELAC	N-Nitrosodimethylamine	<1.02	ug/L	1.02		62-75-9	25
NELAC	n-Nitroso-di-n-butylamine	<1.02	ug/L	1.02		924-16-3	25
NELAC	N-Nitrosodi-n-propylamine	<1.02	ug/L	1.02		621-64-7	25
NELAC	N-Nitrosodiphenylamine (as DPA	<1.02	ug/L	1.02	X	86-30-6	25
NELAC	p-Chloro-m-Cresol (4-Chloro-3-me	<1.02	ug/L	1.02		59-50-7	25
NELAC	Pentachlorobenzene	<1.02	ug/L	1.02		608-93-5	25
NELAC	Pentachlorophenol	<5.00	ug/L	5.00		87-86-5	25
NELAC	Phenanthrene	<1.02	ug/L	1.02		85-01-8	25
NELAC	Phenol	<1.02	ug/L	1.02		108-95-2	25
NELAC	Pyrene	<1.02	ug/L	1.02		129-00-0	25
NELAC	Pyridine	<1.38	ug/L	1.38	D	110-86-1	25

EPA 625.1 *Prepared:* 1167572 03/27/2025 14:30:00 *Calculated* 1169408 04/09/2025 14:24:08 CAL

Parameter	Results	Units	RL	Flags	CAS	Bottle

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Printed: 05/16/2025

2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 Received: 03/27/2025

Non-Potable Water Collected by: GAC SPL Kilgore PO:
Composite Stop 07:00 3/27/25 Taken: 03/27/2025 07:00:00
#1 Autosampler #7241 Bottle #001501

Sample poured Date:3/27/25 Time:0910

#2 Autosampler #6358 Bottle #001726

Sample poured Date:3/27/25 Time:0920

EPA 625.1 Prepared: 1167572 03/27/2025 14:30:00 Calculated 1169408 04/09/2025 14:24:08 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Cresols Total**	**<8.19**	**ug/L**	8.19		**1319-77-3, etc.**	25

EPA 632 Prepared: 1167895 03/31/2025 12:51:46 Analyzed 1168631 04/02/2025 18:48:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Carbaryl (Sevin)**	**<2.50**	**ug/L**	2.50	D	**63-25-2**	36
z	**Danitol**	**<0.100**	**ug/L**	0.100		**64357-84-7**	36
z	**Diuron**	**<0.045**	**ug/L**	0.045		**330-54-1**	36

SM 2120 B-2011 Prepared: 1167646 03/28/2025 13:15:00 Analyzed 1167646 03/28/2025 13:15:00 PNR

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Color**	**15**	**PtCo Units**	5.0			13

SM 2320 B-2011 Prepared: 1168742 04/04/2025 09:25:00 Analyzed 1168742 04/04/2025 09:25:00 MRG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Alkalinity (as CaCO3)**	**53.2**	**mg/L**	1.00			02

SM 2540 C-2020 Prepared: 1168442 04/01/2025 09:30:00 Analyzed 1168442 04/01/2025 09:30:00 JMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Dissolved Solids**	**100**	**mg/L**	10.0			03

SM 2540 D-2020 Prepared: 1168499 04/02/2025 08:50:00 Analyzed 1168499 04/02/2025 08:50:00 ADR

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Suspended Solids**	**<2.00**	**mg/L**	2.00			01

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2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 07:00 3/27/25 *Taken:* 03/27/2025 07:00:00

#1 Autosampler #7241 Bottle #001501

Sample poured Date:3/27/25 Time:0910

#2 Autosampler #6358 Bottle #001726

Sample poured Date:3/27/25 Time:0920

SM 3500-Cr B-2011 *Prepared:* 1167536 03/27/2025 09:11:00 *Analyzed* 1167536 03/27/2025 09:11:00 GAC

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Hex Cr, Field Preservation**	**PRESERVED**	**ug/L**	3		**18540-29-9**	

SM 3500-Cr B-2011 *Prepared:* 1167740 03/27/2025 12:45:00 *Analyzed* 1167740 03/27/2025 12:45:00 ALB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Hexavalent Chromium**	**<3.00**	**ug/L**	3.00		**18540-29-9**	10

SM 4500-S2¯D-2011 *Prepared:* 1167729 03/28/2025 10:40:00 *Analyzed* 1167729 03/28/2025 10:40:00 PNR

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Sulfide**	**<0.020**	**mg/L**	0.020			05

SM 4500-SO3¯B-2011/EPA 377.1 *Prepared:* 1167651 03/27/2025 13:20:00 *Analyzed* 1167651 03/27/2025 13:20:00 ANC

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Sulfite, Lab**	**<2.00**	**mg/L**	2.00			07

SM 5210 B-2016 *Prepared:* 1167634 03/28/2025 *Analyzed* 1167634 04/02/2025 13:14:21 JW1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Biochemical Oxygen Demand (BOD5)**	**4.15**	**mg/L**	2.00		**1026-3**	01

SM 5210 B-2016 (TCMP Inhibitor) *Prepared:* 1167635 03/28/2025 *Analyzed* 1167635 04/02/2025 12:28:28 JW1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**BOD Carbonaceous**	**<2.00**	**mg/L**	2.00			03

SM 5220 D-2011 *Prepared:* 1168204 04/01/2025 11:30:00 *Analyzed* 1168204 04/01/2025 11:30:00 PNR

Parameter	Results	Units	RL	Flags	CAS	Bottle

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2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 07:00 3/27/25 *Taken:* 03/27/2025 07:00:00
#1 Autosampler #7241 Bottle #001501

Sample poured Date:3/27/25 Time:0910

#2 Autosampler #6358 Bottle #001726

Sample poured Date:3/27/25 Time:0920

SM 5220 D-2011 *Prepared:* 1168204 04/01/2025 11:30:00 *Analyzed* 1168204 04/01/2025 11:30:00 PNR

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Chemical Oxygen Demand**	**<20.0**	**mg/L**	20.0			08

SM 5310 C-2014 *Prepared:* 1167670 03/28/2025 00:09:00 *Analyzed* 1167670 03/28/2025 00:09:00 NCB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Organic Carbon**	**1.14**	**mg/L**	0.500			11

SM 5540 C-2011 *Prepared:* 1167888 03/28/2025 03:50:00 *Analyzed* 1167888 03/28/2025 03:50:00 TRC

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**MBAS (Surfactant/Foaming Agents)**	**<0.200**	**mg/L**	0.200			01

TX 1001 *Prepared:* 1168553 04/03/2025 13:45:00 *Analyzed* 1169722 04/09/2025 23:57:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Tributyltin hydride**	**<0.00694**	**ug/L**	0.00694		**688-73-3**	41

Sample Preparation

2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Composite Stop 07:00 3/27/25 03/27/2025

Prepared: 03/27/2025 14:30:32 *Calculated* 03/27/2025 14:30:32 CAL

z	**Enviro Fee (per Sampling Group)**	**Verified**

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2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Composite Stop 07:00 3/27/25 03/27/2025

	EPA 1657	*Prepared:*	*1167905*	*03/31/2025*	*12:50:00*	*Analyzed*	*1168306*	*04/01/2025*	*20:12:00*	*KAP*
z	**30 TAC 307 Oganophosphorous**	**Entered**								38
	EPA 200.2 2.8	*Prepared:*	*1167652*	*03/28/2025*	*06:00:00*	*Analyzed*	*1167652*	*03/28/2025*	*06:00:00*	*HLT*
z	**Liquid Metals Digestion**	**50/50**	**ml**							04
	EPA 350.1, Rev. 2.0	*Prepared:*	*1167613*	*03/27/2025*	*16:49:01*	*Analyzed*	*1167613*	*03/27/2025*	*16:49:01*	*JR1*
NELAC	**Ammonia Distillation**	**6/6**	**ml**							08
	EPA 351.2, Rev 2.0	*Prepared:*	*1167687*	*03/28/2025*	*10:38:33*	*Analyzed*	*1167687*	*03/28/2025*	*10:38:33*	*MEG*
NELAC	**TKN Block Digestion**	**20/20**	**ml**							06
	EPA 604.1	*Prepared:*	*1167676*	*03/28/2025*	*09:35:00*	*Analyzed*	*1167676*	*03/28/2025*	*09:35:00*	*MCC*
	Hexachlorophene Extraction	**5/957**	**ml**							16
	EPA 604.1	*Prepared:*	*1167676*	*03/28/2025*	*09:35:00*	*Analyzed*	*1167960*	*03/31/2025*	*04:00:00*	*BRU*
	Hexachlorophene Expansion	**Entered**						**70-30-4**		34
	EPA 608.3	*Prepared:*	*1167899*	*03/31/2025*	*13:03:29*	*Analyzed*	*1167899*	*03/31/2025*	*13:03:29*	*CRS*
	Liquid-Liquid Extr. W/Hex Ex	**1/1000**	**ml**							14
	EPA 608.3	*Prepared:*	*1167899*	*03/31/2025*	*13:03:29*	*Analyzed*	*1169467*	*04/02/2025*	*20:16:00*	*KAP*
NELAC	**Polychlorinated Biphenyls**	**Entered**								37

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2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Composite Stop 07:00 3/27/25 03/27/2025

	EPA 608.3	*Prepared:*	*1167899*	*03/31/2025*	*13:03:29*	*Analyzed*	*1168867*	*04/02/2025*	*20:16:00*	*KAP*
NELAC	**TTO Pesticides**	**Entered**								37
	EPA 608.3	*Prepared:*	*1167905*	*03/31/2025*	*12:50:00*	*Analyzed*	*1167905*	*03/31/2025*	*12:50:00*	*CRS*
	Solvent Extraction	**1/1000**	**ml**							14
	EPA 608.3	*Prepared:*	*1167907*	*03/31/2025*	*12:50:00*	*Analyzed*	*1167907*	*03/31/2025*	*12:50:00*	*CRS*
	PCB Liq-Liq Extr. W/Hex Exch.	**1/1000**	**ml**							14
	EPA 615	*Prepared:*	*1168083*	*04/01/2025*	*14:00:00*	*Analyzed*	*1168083*	*04/01/2025*	*14:00:00*	*CRS*
NELAC	**Esterification of Sample**	**10/999**	**ml**							17
	EPA 615	*Prepared:*	*1168083*	*04/01/2025*	*14:00:00*	*Analyzed*	*1168894*	*04/04/2025*	*14:37:00*	*KAP*
NELAC	**Herbicides by GC**	**Entered**								40
	EPA 617	*Prepared:*	*1167899*	*03/31/2025*	*13:03:29*	*Analyzed*	*1168859*	*04/02/2025*	*20:16:00*	*KAP*
z	**For use with !PPR only**	**Entered**								37
	EPA 625.1	*Prepared:*	*1167572*	*03/27/2025*	*14:30:00*	*Analyzed*	*1167572*	*03/27/2025*	*14:30:00*	*MCC*
	Liquid-Liquid Extraction, BNA	**1/977**	**ml**							12
	EPA 625.1	*Prepared:*	*1167572*	*03/27/2025*	*14:30:00*	*Analyzed*	*1169408*	*04/07/2025*	*21:37:00*	*PM1*
z	**TTO ABN 40 CFR Pt 122 Table II**	**Entered**								25

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2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Composite Stop 07:00 3/27/25 03/27/2025

EPA 632	*Prepared:*	*1167895*	*03/31/2025*	*12:51:46*	*Analyzed*	*1167895*	*03/31/2025*	*12:51:46*	*CRS*	
Liquid-Liquid Extr. W/Hex Ex	**1/1000**	**ml**								14
EPA 632	*Prepared:*	*1167895*	*03/31/2025*	*12:51:46*	*Analyzed*	*1168631*	*04/02/2025*	*18:48:00*	*BRU*	
z **Carbaryl/Diuron/Danitol EXP**	**Entered**									36
SM 2540 C-2015	*Prepared:*	*1168025*	*04/01/2025*	*09:30:00*	*Analyzed*	*1168025*	*04/01/2025*	*09:30:00*	*JMB*	
NELAC **Total Dissolved Solids Started**	**Started**									
SM 2540 D-2011	*Prepared:*	*1168060*	*04/02/2025*	*08:50:00*	*Analyzed*	*1168060*	*04/02/2025*	*08:50:00*	*ADR*	
NELAC **TSS Set Started**	**Started**									
SM 5210 B-2016	*Prepared:*	*1167634*	*03/28/2025*		*Analyzed*	*1167634*	*03/28/2025*	*05:48:58*	*JW1*	
NELAC **BOD Set Started**	**Started**									
SM 5210 B-2016 (TCMP Inhibitor)	*Prepared:*	*1167635*	*03/28/2025*		*Analyzed*	*1167635*	*03/28/2025*	*05:48:58*	*JW1*	
NELAC **BODc Set Started**	**Started**									
TX 1001	*Prepared:*	*1168553*	*04/03/2025*	*13:45:00*	*Analyzed*	*1168553*	*04/03/2025*	*13:45:00*	*CRS*	
z **Butyltins Extraction**	**1/1009**	**ml**								18
TX 1001	*Prepared:*	*1168553*	*04/03/2025*	*13:45:00*	*Analyzed*	*1169722*	*04/09/2025*	*23:57:00*	*DWL*	
z **Butyltin Expansion**	**Entered**									41

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Qualifiers:

D - Duplicate RPD was higher than expected
S - Standard reads lower than desired
X - Standard reads higher than desired.

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation
z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.
RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.



Bill Peery, MS, VP Technical Services

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Analytical Set 1167634 — SM 5210 B-2016

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Biochemical Oxygen Demand (BOD5)	1167634	0.2	0.200	0.500	mg/L	127453039
Biochemical Oxygen Demand (BOD5)	1167634	0.2	0.200	0.500	mg/L	127453089
Biochemical Oxygen Demand (BOD5)	1167634	0.2	0.200	0.500	mg/L	127453143

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Biochemical Oxygen Demand (BOD5)	2393764	27.8	26.9	mg/L	3.29	30.0
Biochemical Oxygen Demand (BOD5)	2393825	23.0	22.6	mg/L	1.75	30.0
Biochemical Oxygen Demand (BOD5)	2393979	86.7	86.7	mg/L	0	30.0
Biochemical Oxygen Demand (BOD5)	2394043	150	153	mg/L	1.98	30.0
Biochemical Oxygen Demand (BOD5)	2394109	11.7	12.6	mg/L	7.41	30.0

Seed Drop

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Biochemical Oxygen Demand (BOD5)	1167634	0.473	0.200	0.500	mg/L	127453041
Biochemical Oxygen Demand (BOD5)	1167634	0.457	0.200	0.500	mg/L	127453091
Biochemical Oxygen Demand (BOD5)	1167634	0.490	0.200	0.500	mg/L	127453145

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Biochemical Oxygen Demand (BOD5)		228	198	mg/L	115	83.7 - 116	127453042
Biochemical Oxygen Demand (BOD5)		216	198	mg/L	109	83.7 - 116	127453092
Biochemical Oxygen Demand (BOD5)		221	198	mg/L	112	83.7 - 116	127453146

Analytical Set 1167635 — SM 5210 B-2016 (TCMP Inhibitor)

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
BOD Carbonaceous	1167635	0.2	0.200	0.500	mg/L	127453159
BOD Carbonaceous	1167635	0.2	0.200	0.500	mg/L	127453213
BOD Carbonaceous	1167635	0.2	0.200	0.500	mg/L	127453263

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
BOD Carbonaceous	2393784	3.33	3.81	mg/L	13.4	30.0
BOD Carbonaceous	2393831	118	117	mg/L	0.851	30.0
BOD Carbonaceous	2393956	3.84	3.24	mg/L	16.9	30.0
BOD Carbonaceous	2394010	3.40	3.08	mg/L	9.88	30.0
BOD Carbonaceous	2394050	2.60	2.96	mg/L	12.9	30.0

Seed Drop

Parameter	PrepSet	Reading	MDL	MQL	Units	File
BOD Carbonaceous	1167635	0.507	0.200	0.500	mg/L	127453161
BOD Carbonaceous	1167635	0.470	0.200	0.500	mg/L	127453215
BOD Carbonaceous	1167635	0.460	0.200	0.500	mg/L	127453265

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Standard

Parameter	*Sample*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
BOD Carbonaceous		229	198	mg/L	116	83.7 - 116	127453162
BOD Carbonaceous		226	198	mg/L	114	83.7 - 116	127453216
BOD Carbonaceous		228	198	mg/L	115	83.7 - 116	127453266

Analytical Set 1168121 EPA 350.1 2

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Ammonia Nitrogen	1167613	ND	0.00336	0.020	mg/L	127464736

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Ammonia Nitrogen	2.06	2.00	mg/L	103	90.0 - 110	127464735
Ammonia Nitrogen	2.04	2.00	mg/L	102	90.0 - 110	127464744
Ammonia Nitrogen	2.02	2.00	mg/L	101	90.0 - 110	127464753
Ammonia Nitrogen	2.09	2.00	mg/L	104	90.0 - 110	127464761
Ammonia Nitrogen	2.03	2.00	mg/L	102	90.0 - 110	127464772
Ammonia Nitrogen	2.01	2.00	mg/L	100	90.0 - 110	127464782
Ammonia Nitrogen	1.95	2.00	mg/L	97.5	90.0 - 110	127464792
Ammonia Nitrogen	1.94	2.00	mg/L	97.0	90.0 - 110	127464803
Ammonia Nitrogen	1.96	2.00	mg/L	98.0	90.0 - 110	127464812
Ammonia Nitrogen	1.98	2.00	mg/L	99.0	90.0 - 110	127464823
Ammonia Nitrogen	1.97	2.00	mg/L	98.5	90.0 - 110	127464831
Ammonia Nitrogen	1.94	2.00	mg/L	97.0	90.0 - 110	127464840
Ammonia Nitrogen	2.02	2.00	mg/L	101	90.0 - 110	127464848
Ammonia Nitrogen	1.97	2.00	mg/L	98.5	90.0 - 110	127464858
Ammonia Nitrogen	2.02	2.00	mg/L	101	90.0 - 110	127464868
Ammonia Nitrogen	2.07	2.00	mg/L	104	90.0 - 110	127464879
Ammonia Nitrogen	2.06	2.00	mg/L	103	90.0 - 110	127464890
Ammonia Nitrogen	2.05	2.00	mg/L	102	90.0 - 110	127464898
Ammonia Nitrogen	2.04	2.00	mg/L	102	90.0 - 110	127464908
Ammonia Nitrogen	2.04	2.00	mg/L	102	90.0 - 110	127464918
Ammonia Nitrogen	2.06	2.00	mg/L	103	90.0 - 110	127464927

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
Ammonia Nitrogen	2393805	ND	ND	mg/L		20.0
Ammonia Nitrogen	2393932	ND	ND	mg/L		20.0

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Ammonia Nitrogen	2.14	2.00	mg/L	107	90.0 - 110	127464734

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Ammonia Nitrogen	1167613	2.18	2.12	2.00	90.0 - 110	109	106	mg/L	2.79	20.0

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Mat. Spike

Parameter	*Sample*	*Spike*	*Unknown*	*Known*	*Units*	*Recovery %*	*Limits %*	*File*
Ammonia Nitrogen	2393805	2.11	ND	2.00	mg/L	106	80.0 - 120	127464745
Ammonia Nitrogen	2393932	2.03	ND	2.00	mg/L	102	80.0 - 120	127464741

Analytical Set 1168178 — EPA 351.2 2

AWRL/LOQ C

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Total Kjeldahl Nitrogen	0.055	0.050	mg/L	110	75.0 - 125	127465433

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Total Kjeldahl Nitrogen	1167687	0.012	0.00712	0.050	mg/L	127465430

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Total Kjeldahl Nitrogen	5.34	5.00	mg/L	107	90.0 - 110	127465415
Total Kjeldahl Nitrogen	5.50	5.00	mg/L	110	90.0 - 110	127465422
Total Kjeldahl Nitrogen	5.45	5.00	mg/L	109	90.0 - 110	127465429
Total Kjeldahl Nitrogen	5.44	5.00	mg/L	109	90.0 - 110	127465440
Total Kjeldahl Nitrogen	5.47	5.00	mg/L	109	90.0 - 110	127465447
Total Kjeldahl Nitrogen	5.42	5.00	mg/L	108	90.0 - 110	127465455
Total Kjeldahl Nitrogen	5.44	5.00	mg/L	109	90.0 - 110	127465461
Total Kjeldahl Nitrogen	5.32	5.00	mg/L	106	90.0 - 110	127465466

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
Total Kjeldahl Nitrogen	2393790	0.331	0.324	mg/L	2.14	20.0
Total Kjeldahl Nitrogen	2393825	0.711	0.697	mg/L	1.99	20.0

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Total Kjeldahl Nitrogen	5.46	5.00	mg/L	109	90.0 - 110	127465414

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Total Kjeldahl Nitrogen	1167687	5.33	5.48	5.00	90.0 - 110	107	110	mg/L	2.78	20.0

Mat. Spike

Parameter	*Sample*	*Spike*	*Unknown*	*Known*	*Units*	*Recovery %*	*Limits %*	*File*
Total Kjeldahl Nitrogen	2393790	5.45	0.324	5.00	mg/L	103	80.0 - 120	127465436
Total Kjeldahl Nitrogen	2393825	5.77	0.697	5.00	mg/L	101	80.0 - 120	127465439

Analytical Set 1168442 — SM 2540 C-2020

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Total Dissolved Solids	1168442	ND	5.00	5.00	mg/L	127471260

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Dissolved Solids	1168442	-0.0002			grams	127471247

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Dissolved Solids	2393856	106	100	mg/L	5.83	20.0

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File
Total Dissolved Solids	1168442	204	200	mg/L	102	85.0 - 115	127471248

Analytical Set 1168499 — SM 2540 D-2020

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Suspended Solids	1168499	ND	2	2	mg/L	127472270

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Suspended Solids	1168499	0			grams	127472269

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Suspended Solids	2393995	22.0	20.3	mg/L	8.04	20.0
Total Suspended Solids	2394025	43.0	43.0	mg/L	0	20.0
Total Suspended Solids	2394059	25.7	23.0	mg/L	11.1	20.0

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File
Total Suspended Solids	1168499	50.0	50.0	mg/L	100	90.0 - 110	127472303

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Total Suspended Solids		100	100	mg/L	100	90.0 - 110	127472302

Analytical Set 1167786 — EPA 300.0 2.1

AWRL/LOQ C

Parameter	Reading	Known	Units	Recover%	Limits%	File
Bromide	0.079	0.100	mg/L	79.0	70.0 - 130	127456569
Fluoride	0.093	0.100	mg/L	93.0	70.0 - 130	127456569
Nitrate-Nitrite Nitrogen	0.0569	0.053	mg/L	107	70.0 - 130	127456569
Nitrate-Nitrogen Total	0.0289	0.0226	mg/L	128	70.0 - 130	127456569

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Bromide	1167786	ND	0.0181	0.100	mg/L	127456570
Chloride	1167786	ND	0.0593	0.300	mg/L	127456570
Fluoride	1167786	ND	0.0112	0.100	mg/L	127456570
Nitrate-Nitrite Nitrogen	1167786	ND	0.0047	0.053	mg/L	127456570

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Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Nitrate-Nitrogen Total	1167786	ND	0.00331	0.0226	mg/L	127456570
Sulfate	1167786	ND	0.0605	0.300	mg/L	127456570

CCB

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Bromide	1167786	0	0.0181	0.100	mg/L	127456566
Bromide	1167786	0	0.0181	0.100	mg/L	127456586
Bromide	1167786	0	0.0181	0.100	mg/L	127456598
Chloride	1167786	0	0.0593	0.300	mg/L	127456566
Chloride	1167786	0	0.0593	0.300	mg/L	127456586
Chloride	1167786	0	0.0593	0.300	mg/L	127456598
Fluoride	1167786	0	0.0112	0.100	mg/L	127456566
Fluoride	1167786	0	0.0112	0.100	mg/L	127456586
Fluoride	1167786	0	0.0112	0.100	mg/L	127456598
Nitrate-Nitrogen Total	1167786	0	0.00331	0.0226	mg/L	127456566
Nitrate-Nitrogen Total	1167786	0	0.00331	0.0226	mg/L	127456586
Nitrate-Nitrogen Total	1167786	0	0.00331	0.0226	mg/L	127456598
Sulfate	1167786	0.126	0.0605	0.300	mg/L	127456566
Sulfate	1167786	0.111	0.0605	0.300	mg/L	127456586
Sulfate	1167786	0.114	0.0605	0.300	mg/L	127456598

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Bromide	9.72	10.0	mg/L	97.2	90.0 - 110	127456565
Bromide	9.52	10.0	mg/L	95.2	90.0 - 110	127456585
Bromide	9.82	10.0	mg/L	98.2	90.0 - 110	127456597
Chloride	10.2	10.0	mg/L	102	90.0 - 110	127456565
Chloride	9.96	10.0	mg/L	99.6	90.0 - 110	127456585
Chloride	10.1	10.0	mg/L	101	90.0 - 110	127456597
Fluoride	10.4	10.0	mg/L	104	90.0 - 110	127456565
Fluoride	10.4	10.0	mg/L	104	90.0 - 110	127456585
Fluoride	10.5	10.0	mg/L	105	90.0 - 110	127456597
Nitrate-Nitrite Nitrogen	5.37	5.30	mg/L	101	90.0 - 110	127456565
Nitrate-Nitrite Nitrogen	5.33	5.30	mg/L	101	90.0 - 110	127456585
Nitrate-Nitrite Nitrogen	5.47	5.30	mg/L	103	90.0 - 110	127456597
Nitrate-Nitrogen Total	2.46	2.26	mg/L	109	90.0 - 110	127456565
Nitrate-Nitrogen Total	2.39	2.26	mg/L	106	90.0 - 110	127456585
Nitrate-Nitrogen Total	2.46	2.26	mg/L	109	90.0 - 110	127456597
Sulfate	10.1	10.0	mg/L	101	90.0 - 110	127456565
Sulfate	9.90	10.0	mg/L	99.0	90.0 - 110	127456585
Sulfate	10.0	10.0	mg/L	100	90.0 - 110	127456597

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Bromide	1167786	4.87	4.74	5.00	88.3 - 119	97.4	94.8	mg/L	2.71	20.0
Chloride	1167786	5.06	4.94	5.00	85.0 - 115	101	98.8	mg/L	2.40	20.0

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LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Fluoride	1167786	5.37	5.31	5.00	88.0 - 118	107	106	mg/L	1.12	20.0
Nitrate-Nitrite Nitrogen	1167786	2.89	2.82	2.65	88.0 - 117	109	106	mg/L	2.45	20.0
Nitrate-Nitrogen Total	1167786	1.22	1.19	1.13	86.3 - 117	108	105	mg/L	2.49	20.0
Sulfate	1167786	5.50	5.37	5.00	85.4 - 124	110	107	mg/L	2.39	20.0

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
Bromide	2393642	18.7	18.7	ND	20.0	80.0 - 120	93.5	93.5	mg/L	0	20.0
Chloride	2393642	121	120	101	20.0	80.0 - 120	100	95.0	mg/L	5.13	20.0
Fluoride	2393642	20.7	20.6	0.960	20.0	80.0 - 120	98.7	98.2	mg/L	0.508	20.0
Nitrate-Nitrite Nitrogen	2393642	11.3	11.0	ND	10.6	80.0 - 120	107	104	mg/L	2.69	20.0
Nitrate-Nitrogen Total	2393642	4.85	4.65	0.00451	4.52	80.0 - 120	107	103	mg/L	4.21	20.0
Sulfate	2393642	88.1	88.4	68.0	20.0	80.0 - 120	100	102	mg/L	1.48	20.0
Bromide	2393676	9.23	9.18	ND	10.0	80.0 - 120	92.3	91.8	mg/L	0.543	20.0
Chloride	2393676	112	113	108	10.0	80.0 - 120	40.0 *	50.0 *	mg/L	22.2 *	20.0
Fluoride	2393676	9.95	10.0	0.660	10.0	80.0 - 120	92.9	93.4	mg/L	0.537	20.0
Nitrate-Nitrite Nitrogen	2393676	40.4	40.6	36.8	5.30	80.0 - 120	67.9 *	71.7 *	mg/L	5.41	20.0
Nitrate-Nitrogen Total	2393676	37.1	37.4	36.8	2.26	80.0 - 120	13.3 *	26.5 *	mg/L	66.7 *	20.0
Sulfate	2393676	238	241	243	10.0	80.0 - 120	-50.0 *	-20.0 *	mg/L	1.25	20.0

Analytical Set 1167670 — SM 5310 C-2014

AWRL/LOQ C

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Total Organic Carbon	1.97	2.00	mg/L	98.5	50.0 - 150	127454742

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Total Organic Carbon	1167670	0.159	0.0168	0.500	mg/L	127454735
Total Organic Carbon	1167670	0.131	0.0168	0.500	mg/L	127454741
Total Organic Carbon	1167670	0.116	0.0168	0.500	mg/L	127454770

CCB

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Total Organic Carbon	1167670	0.254	0.0168	0.500	mg/L	127454755
Total Organic Carbon	1167670	0.102	0.0168	0.500	mg/L	127454768

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Total Organic Carbon	10.1	10.0	mg/L	101	90.0 - 110	127454738
Total Organic Carbon	10.1	10.0	mg/L	101	90.0 - 110	127454756
Total Organic Carbon	9.87	10.0	mg/L	98.7	90.0 - 110	127454769

ICL

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Total Organic Carbon	21.0	20.0	mg/L	105	90.0 - 110	127454737

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ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Organic Carbon	10.2	10.0	mg/L	102	90.0 - 110	127454739

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File
Total Organic Carbon	1167670	5.02	5.00	mg/L	100	85.0 - 115	127454740
Total Organic Carbon	1167670	4.68	5.00	mg/L	93.6	85.0 - 115	127454771

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Total Organic Carbon	2391324	15.4	15.4	5.00	10.0	85.0 - 115	104	104	mg/L	0	20.0
Total Organic Carbon	2393676	15.9	16.2	5.70	10.0	85.0 - 115	102	105	mg/L	2.90	20.0

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Total Organic Carbon		50.7	50.0	mg/L	101	90.0 - 110	127454736

Analytical Set 1167701 — EPA 200.7 4.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Boron	1167652	ND	0.00103	0.008	mg/L	127455181
Phosphorus	1167652	ND	0.0353	0.040	mg/L	127455181
Tin, Total	1167652	0.00407	0.00288	0.010	mg/L	127455181
Titanium	1167652	ND	0.0284	0.040	mg/L	127455181

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Boron	0.990	1.00	mg/L	99.0	90.0 - 110	127455180
Boron	0.995	1.00	mg/L	99.5	90.0 - 110	127455190
Boron	1.00	1.00	mg/L	100	90.0 - 110	127455193
Phosphorus	0.984	1.00	mg/L	98.4	90.0 - 110	127455180
Phosphorus	1.00	1.00	mg/L	100	90.0 - 110	127455190
Phosphorus	1.00	1.00	mg/L	100	90.0 - 110	127455193
Tin, Total	0.246	0.250	mg/L	98.4	90.0 - 110	127455180
Tin, Total	0.248	0.250	mg/L	99.2	90.0 - 110	127455190
Tin, Total	0.248	0.250	mg/L	99.2	90.0 - 110	127455193
Titanium	0.992	1.00	mg/L	99.2	90.0 - 110	127455180
Titanium	0.993	1.00	mg/L	99.3	90.0 - 110	127455190
Titanium	1.00	1.00	mg/L	100	90.0 - 110	127455193

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Boron	10.4	10.0	mg/L	104	95.0 - 105	127455178
Phosphorus	25.1	25.0	mg/L	100	95.0 - 105	127455178
Tin, Total	1.00	1.00	mg/L	100	95.0 - 105	127455178
Titanium	10.2	10.0	mg/L	102	95.0 - 105	127455178

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ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Boron	1.03	1.00	mg/L	103	90.0 - 110	127455179
Phosphorus	1.03	1.00	mg/L	103	90.0 - 110	127455179
Tin, Total	0.251	0.250	mg/L	100	90.0 - 110	127455179
Titanium	1.03	1.00	mg/L	103	90.0 - 110	127455179

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Boron	1167652	1.02	1.02	1.00	85.0 - 115	102	102	mg/L	0	25.0
Phosphorus	1167652	4.20	4.17	4.00	85.0 - 115	105	104	mg/L	0.717	25.0
Tin, Total	1167652	0.489	0.491	0.500	85.0 - 115	97.8	98.2	mg/L	0.408	25.0
Titanium	1167652	0.505	0.503	0.500	85.0 - 115	101	101	mg/L	0.397	25.0

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
Boron	2393856	1.04	1.06	0.0183	1.00	75.0 - 125	102	104	mg/L	1.94	25.0
Phosphorus	2393856	4.35	4.41	0.217	4.00	75.0 - 125	103	105	mg/L	1.44	25.0
Tin, Total	2393856	0.482	0.499	0.00397	0.500	75.0 - 125	95.6	99.0	mg/L	3.49	25.0
Titanium	2393856	0.499	0.504	ND	0.500	75.0 - 125	99.8	101	mg/L	0.997	25.0

Analytical Set 1167705 — EPA 200.7 4.4

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Iron, Total	1167652	ND	0.00379	0.025	mg/L	127455254
Magnesium, Total	1167652	ND	0.00367	0.500	mg/L	127455254

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Iron, Total	2.50	2.50	mg/L	100	90.0 - 110	127455253
Iron, Total	2.50	2.50	mg/L	100	90.0 - 110	127455263
Iron, Total	2.47	2.50	mg/L	98.8	90.0 - 110	127455267
Magnesium, Total	25.2	25.0	mg/L	101	90.0 - 110	127455253
Magnesium, Total	25.1	25.0	mg/L	100	90.0 - 110	127455263
Magnesium, Total	24.8	25.0	mg/L	99.2	90.0 - 110	127455267

ICL

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Iron, Total	5.00	5.00	mg/L	100	95.0 - 105	127455247
Magnesium, Total	49.7	50.0	mg/L	99.4	95.0 - 105	127455247

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Iron, Total	2.60	2.50	mg/L	104	90.0 - 110	127455251
Magnesium, Total	25.4	25.0	mg/L	102	90.0 - 110	127455251

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Iron, Total	1167652	0.508	0.508	0.500	85.0 - 115	102	102	mg/L	0	25.0

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LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Magnesium, Total	1167652	5.23	5.20	5.00	85.0 - 115	105	104	mg/L	0.575	25.0

LDR

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Iron, Total	9.78	10.0	mg/L	97.8	90.0 - 110	127455248
Magnesium, Total	104	100	mg/L	104	90.0 - 110	127455248

MRL Check

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Iron, Total	0.0482	0.050	mg/L	96.4	25.0 - 175	127455252
Magnesium, Total	0.513	0.500	mg/L	103	25.0 - 175	127455252

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
Iron, Total	2393856	0.617	0.626	0.104	0.500	75.0 - 125	103	104	mg/L	1.74	25.0
Magnesium, Total	2393856	7.35	7.44	2.11	5.00	75.0 - 125	105	107	mg/L	1.70	25.0

Analytical Set 1167740 — SM 3500-Cr B-2011

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Hexavalent Chromium	1167740	ND	0.550	3.00	ug/L	127455685
Hexavalent Chromium	1167740	ND	0.550	3.00	ug/L	127455696
Hexavalent Chromium	1167740	0.910	0.550	3.00	ug/L	127455699

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Hexavalent Chromium	82.5	80.0	ug/L	103	90.0 - 110	127455686
Hexavalent Chromium	82.2	80.0	ug/L	103	90.0 - 110	127455697
Hexavalent Chromium	81.0	80.0	ug/L	101	90.0 - 110	127455700

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Hexavalent Chromium	1167740	81.8	83.0	80.0	85.0 - 115	102	104	ug/L	1.46	15.0

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
Hexavalent Chromium	2393445	62.4	64.4	ND	80.0	70.0 - 130	78.0	80.5	ug/L	3.15	20.0

Analytical Set 1167869 — EPA 200.8 5.4

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Aluminum, Total	1167652	ND	0.0039	0.005	mg/L	127458210
Antimony, Total	1167652	ND	0.000847	0.003	mg/L	127458210
Arsenic, Total	1167652	ND	0.000902	0.001	mg/L	127458210
Beryllium, Total	1167652	ND	0.000162	0.001	mg/L	127458210
Cadmium, Total	1167652	ND	0.00012	0.001	mg/L	127458210
Chromium, Total	1167652	ND	0.000392	0.001	mg/L	127458210

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Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Cobalt, Total	1167652	ND	0.000167	0.001	mg/L	127458210
Copper, Total	1167652	ND	0.000325	0.001	mg/L	127458210
Manganese, Total	1167652	ND	0.000168	0.001	mg/L	127458210
Molybdenum, Total	1167652	ND	0.000155	0.001	mg/L	127458210
Nickel, Total	1167652	ND	0.000154	0.001	mg/L	127458210
Silver, Total	1167652	ND	0.000276	0.001	mg/L	127458210
Zinc, Total	1167652	ND	0.000844	0.001	mg/L	127458210

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Aluminum, Total	0.0518	0.05	mg/L	104	90.0 - 110	127458153
Aluminum, Total	0.0515	0.05	mg/L	103	90.0 - 110	127458164
Aluminum, Total	0.0504	0.05	mg/L	101	90.0 - 110	127458204
Aluminum, Total	0.0502	0.05	mg/L	100	90.0 - 110	127458214
Aluminum, Total	0.0492	0.05	mg/L	98.4	90.0 - 110	127458225
Aluminum, Total	0.0508	0.05	mg/L	102	90.0 - 110	127458234
Aluminum, Total	0.0509	0.05	mg/L	102	90.0 - 110	127458235
Antimony, Total	0.0464	0.05	mg/L	92.8	90.0 - 110	127458153
Antimony, Total	0.0465	0.05	mg/L	93.0	90.0 - 110	127458164
Antimony, Total	0.0454	0.05	mg/L	90.8	90.0 - 110	127458174
Antimony, Total	0.0461	0.05	mg/L	92.2	90.0 - 110	127458184
Antimony, Total	0.045	0.05	mg/L	90.0	90.0 - 110	127458193
Antimony, Total	0.0454	0.05	mg/L	90.8	90.0 - 110	127458214
Antimony, Total	0.0463	0.05	mg/L	92.6	90.0 - 110	127458225
Antimony, Total	0.0453	0.05	mg/L	90.6	90.0 - 110	127458234
Antimony, Total	0.0452	0.05	mg/L	90.4	90.0 - 110	127458235
Arsenic, Total	0.0516	0.05	mg/L	103	90.0 - 110	127458153
Arsenic, Total	0.0523	0.05	mg/L	105	90.0 - 110	127458164
Arsenic, Total	0.0519	0.05	mg/L	104	90.0 - 110	127458184
Arsenic, Total	0.0516	0.05	mg/L	103	90.0 - 110	127458193
Arsenic, Total	0.0524	0.05	mg/L	105	90.0 - 110	127458214
Arsenic, Total	0.0519	0.05	mg/L	104	90.0 - 110	127458225
Arsenic, Total	0.0518	0.05	mg/L	104	90.0 - 110	127458234
Arsenic, Total	0.0533	0.05	mg/L	107	90.0 - 110	127458235
Beryllium, Total	0.0505	0.05	mg/L	101	90.0 - 110	127458153
Beryllium, Total	0.0501	0.05	mg/L	100	90.0 - 110	127458184
Beryllium, Total	0.0493	0.05	mg/L	98.6	90.0 - 110	127458193
Beryllium, Total	0.050	0.05	mg/L	100	90.0 - 110	127458214
Beryllium, Total	0.051	0.05	mg/L	102	90.0 - 110	127458225
Beryllium, Total	0.0511	0.05	mg/L	102	90.0 - 110	127458234
Beryllium, Total	0.0506	0.05	mg/L	101	90.0 - 110	127458235
Cadmium, Total	0.0491	0.05	mg/L	98.2	90.0 - 110	127458153
Cadmium, Total	0.0497	0.05	mg/L	99.4	90.0 - 110	127458164
Cadmium, Total	0.050	0.05	mg/L	100	90.0 - 110	127458184
Cadmium, Total	0.0496	0.05	mg/L	99.2	90.0 - 110	127458193

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Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Cadmium, Total	0.0502	0.05	mg/L	100	90.0 - 110	127458214
Cadmium, Total	0.0511	0.05	mg/L	102	90.0 - 110	127458225
Cadmium, Total	0.051	0.05	mg/L	102	90.0 - 110	127458234
Cadmium, Total	0.0511	0.05	mg/L	102	90.0 - 110	127458235
Chromium, Total	0.0522	0.05	mg/L	104	90.0 - 110	127458153
Chromium, Total	0.0511	0.05	mg/L	102	90.0 - 110	127458164
Chromium, Total	0.0521	0.05	mg/L	104	90.0 - 110	127458193
Chromium, Total	0.0494	0.05	mg/L	98.8	90.0 - 110	127458204
Chromium, Total	0.0501	0.05	mg/L	100	90.0 - 110	127458214
Chromium, Total	0.0506	0.05	mg/L	101	90.0 - 110	127458225
Chromium, Total	0.0509	0.05	mg/L	102	90.0 - 110	127458234
Chromium, Total	0.051	0.05	mg/L	102	90.0 - 110	127458235
Cobalt, Total	0.0525	0.05	mg/L	105	90.0 - 110	127458153
Cobalt, Total	0.0502	0.05	mg/L	100	90.0 - 110	127458214
Cobalt, Total	0.0507	0.05	mg/L	101	90.0 - 110	127458225
Copper, Total	0.0544	0.05	mg/L	109	90.0 - 110	127458153
Copper, Total	0.0511	0.05	mg/L	102	90.0 - 110	127458164
Copper, Total	0.0521	0.05	mg/L	104	90.0 - 110	127458184
Copper, Total	0.0527	0.05	mg/L	105	90.0 - 110	127458193
Copper, Total	0.0491	0.05	mg/L	98.2	90.0 - 110	127458204
Copper, Total	0.0503	0.05	mg/L	101	90.0 - 110	127458214
Copper, Total	0.052	0.05	mg/L	104	90.0 - 110	127458225
Copper, Total	0.0523	0.05	mg/L	105	90.0 - 110	127458234
Copper, Total	0.0526	0.05	mg/L	105	90.0 - 110	127458235
Manganese, Total	0.0522	0.05	mg/L	104	90.0 - 110	127458153
Manganese, Total	0.0515	0.05	mg/L	103	90.0 - 110	127458164
Manganese, Total	0.0517	0.05	mg/L	103	90.0 - 110	127458184
Manganese, Total	0.0518	0.05	mg/L	104	90.0 - 110	127458193
Manganese, Total	0.0502	0.05	mg/L	100	90.0 - 110	127458214
Manganese, Total	0.0506	0.05	mg/L	101	90.0 - 110	127458225
Manganese, Total	0.0515	0.05	mg/L	103	90.0 - 110	127458234
Manganese, Total	0.0518	0.05	mg/L	104	90.0 - 110	127458235
Molybdenum, Total	0.0496	0.05	mg/L	99.2	90.0 - 110	127458153
Molybdenum, Total	0.0481	0.05	mg/L	96.2	90.0 - 110	127458174
Molybdenum, Total	0.0536	0.05	mg/L	107	90.0 - 110	127458184
Molybdenum, Total	0.0496	0.05	mg/L	99.2	90.0 - 110	127458214
Molybdenum, Total	0.054	0.05	mg/L	108	90.0 - 110	127458225
Nickel, Total	0.0524	0.05	mg/L	105	90.0 - 110	127458153
Nickel, Total	0.0513	0.05	mg/L	103	90.0 - 110	127458164
Nickel, Total	0.0526	0.05	mg/L	105	90.0 - 110	127458184
Nickel, Total	0.0529	0.05	mg/L	106	90.0 - 110	127458193
Nickel, Total	0.051	0.05	mg/L	102	90.0 - 110	127458214
Nickel, Total	0.0518	0.05	mg/L	104	90.0 - 110	127458225
Nickel, Total	0.0523	0.05	mg/L	105	90.0 - 110	127458234
Nickel, Total	0.0529	0.05	mg/L	106	90.0 - 110	127458235

QUALITY CONTROL

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Zinc, Total	0.0532	0.05	mg/L	106	90.0 - 110	127458153
Zinc, Total	0.0521	0.05	mg/L	104	90.0 - 110	127458164
Zinc, Total	0.0511	0.05	mg/L	102	90.0 - 110	127458174
Zinc, Total	0.0528	0.05	mg/L	106	90.0 - 110	127458184
Zinc, Total	0.0536	0.05	mg/L	107	90.0 - 110	127458193
Zinc, Total	0.051	0.05	mg/L	102	90.0 - 110	127458204
Zinc, Total	0.0515	0.05	mg/L	103	90.0 - 110	127458214
Zinc, Total	0.0534	0.05	mg/L	107	90.0 - 110	127458225
Zinc, Total	0.0539	0.05	mg/L	108	90.0 - 110	127458234
Zinc, Total	0.0541	0.05	mg/L	108	90.0 - 110	127458235

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Aluminum, Total	0.052	0.05	mg/L	104	90.0 - 110	127458148
Antimony, Total	0.0539	0.05	mg/L	108	90.0 - 110	127458148
Arsenic, Total	0.0504	0.05	mg/L	101	90.0 - 110	127458148
Beryllium, Total	0.0486	0.05	mg/L	97.2	90.0 - 110	127458148
Cadmium, Total	0.049	0.05	mg/L	98.0	90.0 - 110	127458148
Chromium, Total	0.0525	0.05	mg/L	105	90.0 - 110	127458148
Cobalt, Total	0.0522	0.05	mg/L	104	90.0 - 110	127458148
Copper, Total	0.0517	0.05	mg/L	103	90.0 - 110	127458148
Manganese, Total	0.0521	0.05	mg/L	104	90.0 - 110	127458148
Molybdenum, Total	0.0494	0.05	mg/L	98.8	90.0 - 110	127458148
Nickel, Total	0.0514	0.05	mg/L	103	90.0 - 110	127458148
Zinc, Total	0.0488	0.05	mg/L	97.6	90.0 - 110	127458148

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Aluminum, Total	1167652	0.560	0.553	0.500	85.0 - 115	112	111	mg/L	1.26	20.0
Antimony, Total	1167652	0.506	0.505	0.500	85.0 - 115	101	101	mg/L	0.198	20.0
Arsenic, Total	1167652	0.530	0.531	0.500	85.0 - 115	106	106	mg/L	0.189	20.0
Beryllium, Total	1167652	0.202	0.201	0.200	85.0 - 115	101	100	mg/L	0.496	20.0
Cadmium, Total	1167652	0.253	0.252	0.250	85.0 - 115	101	101	mg/L	0.396	20.0
Chromium, Total	1167652	0.551	0.545	0.500	85.0 - 115	110	109	mg/L	1.09	20.0
Cobalt, Total	1167652	0.536	0.526	0.500	85.0 - 115	107	105	mg/L	1.88	20.0
Copper, Total	1167652	0.543	0.536	0.500	85.0 - 115	109	107	mg/L	1.30	20.0
Manganese, Total	1167652	0.553	0.543	0.500	85.0 - 115	111	109	mg/L	1.82	20.0
Molybdenum, Total	1167652	0.443	0.442	0.500	85.0 - 115	88.6	88.4	mg/L	0.226	20.0
Nickel, Total	1167652	0.542	0.534	0.500	85.0 - 115	108	107	mg/L	1.49	20.0
Silver, Total	1167652	0.0935	0.0933	0.100	85.0 - 115	93.5	93.3	mg/L	0.214	20.0
Zinc, Total	1167652	0.559	0.554	0.500	85.0 - 115	112	111	mg/L	0.898	20.0

MRL Check

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Copper, Total	0.00033	0.001	mg/L	33.0	25.0 - 175	127458149
Manganese, Total	0.00106	0.001	mg/L	106	25.0 - 175	127458149

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QUALITY CONTROL

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MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
Aluminum, Total	2393777	0.620	0.618	0.0844	0.500	70.0 - 130	107	107	mg/L	0.374	20.0
Antimony, Total	2393777	0.498	0.498	0.00217	0.500	70.0 - 130	99.2	99.2	mg/L	0	20.0
Arsenic, Total	2393777	0.510	0.502	0.00778	0.500	70.0 - 130	100	98.8	mg/L	1.61	20.0
Beryllium, Total	2393777	0.192	0.193	ND	0.200	70.0 - 130	96.0	96.5	mg/L	0.519	20.0
Cadmium, Total	2393777	0.218	0.219	ND	0.250	70.0 - 130	87.2	87.6	mg/L	0.458	20.0
Chromium, Total	2393777	0.531	0.527	0.00071	0.500	70.0 - 130	106	105	mg/L	0.757	20.0
Cobalt, Total	2393777	0.498	0.502	0.000549	0.500	70.0 - 130	99.5	100	mg/L	0.801	20.0
Copper, Total	2393777	0.484	0.485	0.00438	0.500	70.0 - 130	95.9	96.1	mg/L	0.208	20.0
Manganese, Total	2393777	0.568	0.567	0.0637	0.500	70.0 - 130	101	101	mg/L	0.198	20.0
Molybdenum, Total	2393777	0.455	0.459	0.0102	0.500	70.0 - 130	89.0	89.8	mg/L	0.895	20.0
Nickel, Total	2393777	0.489	0.494	0.00521	0.500	70.0 - 130	96.8	97.8	mg/L	1.03	20.0
Zinc, Total	2393777	0.472	0.484	0.0419	0.500	70.0 - 130	86.0	88.4	mg/L	2.75	20.0
Aluminum, Total	2393856	0.539	0.554	0.0118	0.500	70.0 - 130	105	108	mg/L	2.81	20.0
Antimony, Total	2393856	0.502	0.512	ND	0.500	70.0 - 130	100	102	mg/L	1.97	20.0
Arsenic, Total	2393856	0.513	0.525	ND	0.500	70.0 - 130	103	105	mg/L	2.31	20.0
Beryllium, Total	2393856	0.201	0.202	ND	0.200	70.0 - 130	100	101	mg/L	0.496	20.0
Cadmium, Total	2393856	0.247	0.250	0.00014	0.250	70.0 - 130	98.7	99.9	mg/L	1.21	20.0
Chromium, Total	2393856	0.546	0.557	0.000489	0.500	70.0 - 130	109	111	mg/L	2.00	20.0
Cobalt, Total	2393856	0.535	0.544	0.00172	0.500	70.0 - 130	107	108	mg/L	1.67	20.0
Copper, Total	2393856	0.552	0.558	0.00452	0.500	70.0 - 130	109	111	mg/L	1.09	20.0
Manganese, Total	2393856	0.568	0.575	0.0239	0.500	70.0 - 130	109	110	mg/L	1.28	20.0
Molybdenum, Total	2393856	0.446	0.457	0.00152	0.500	70.0 - 130	88.9	91.1	mg/L	2.44	20.0
Nickel, Total	2393856	0.543	0.551	0.00221	0.500	70.0 - 130	108	110	mg/L	1.47	20.0
Zinc, Total	2393856	0.570	0.572	0.0184	0.500	70.0 - 130	110	111	mg/L	0.362	20.0

Analytical Set 1168008 EPA 200.8 5.4

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Barium, Total	1167652	ND	0.00207	0.005	mg/L	127462436
Lead, Total	1167652	ND	0.000549	0.001	mg/L	127462436
Selenium, Total	1167652	ND	0.00294	0.005	mg/L	127462436
Thallium, Total	1167652	ND	0.000966	0.001	mg/L	127462436

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Barium, Total	0.0508	0.05	mg/L	102	90.0 - 110	127462325
Barium, Total	0.052	0.05	mg/L	104	90.0 - 110	127462335
Barium, Total	0.0523	0.05	mg/L	105	90.0 - 110	127462346
Barium, Total	0.052	0.05	mg/L	104	90.0 - 110	127462355
Barium, Total	0.0519	0.05	mg/L	104	90.0 - 110	127462365
Barium, Total	0.0523	0.05	mg/L	105	90.0 - 110	127462372
Barium, Total	0.0522	0.05	mg/L	104	90.0 - 110	127462382
Barium, Total	0.0521	0.05	mg/L	104	90.0 - 110	127462393
Barium, Total	0.0529	0.05	mg/L	106	90.0 - 110	127462434
Barium, Total	0.0529	0.05	mg/L	106	90.0 - 110	127462444

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Barium, Total	0.0534	0.05	mg/L	107	90.0 - 110	127462447
Lead, Total	0.0519	0.05	mg/L	104	90.0 - 110	127462325
Lead, Total	0.0513	0.05	mg/L	103	90.0 - 110	127462335
Lead, Total	0.0512	0.05	mg/L	102	90.0 - 110	127462346
Lead, Total	0.0515	0.05	mg/L	103	90.0 - 110	127462355
Lead, Total	0.0516	0.05	mg/L	103	90.0 - 110	127462365
Lead, Total	0.0517	0.05	mg/L	103	90.0 - 110	127462372
Lead, Total	0.0514	0.05	mg/L	103	90.0 - 110	127462382
Lead, Total	0.0517	0.05	mg/L	103	90.0 - 110	127462393
Lead, Total	0.0523	0.05	mg/L	105	90.0 - 110	127462434
Lead, Total	0.0523	0.05	mg/L	105	90.0 - 110	127462444
Lead, Total	0.0521	0.05	mg/L	104	90.0 - 110	127462447
Selenium, Total	0.0513	0.05	mg/L	103	90.0 - 110	127462325
Selenium, Total	0.0521	0.05	mg/L	104	90.0 - 110	127462335
Selenium, Total	0.0531	0.05	mg/L	106	90.0 - 110	127462346
Selenium, Total	0.0526	0.05	mg/L	105	90.0 - 110	127462355
Selenium, Total	0.0524	0.05	mg/L	105	90.0 - 110	127462365
Selenium, Total	0.0531	0.05	mg/L	106	90.0 - 110	127462372
Selenium, Total	0.0529	0.05	mg/L	106	90.0 - 110	127462382
Selenium, Total	0.053	0.05	mg/L	106	90.0 - 110	127462393
Selenium, Total	0.0527	0.05	mg/L	105	90.0 - 110	127462403
Selenium, Total	0.0535	0.05	mg/L	107	90.0 - 110	127462413
Selenium, Total	0.0533	0.05	mg/L	107	90.0 - 110	127462424
Selenium, Total	0.053	0.05	mg/L	106	90.0 - 110	127462434
Selenium, Total	0.0526	0.05	mg/L	105	90.0 - 110	127462444
Selenium, Total	0.0523	0.05	mg/L	105	90.0 - 110	127462447
Thallium, Total	0.0511	0.05	mg/L	102	90.0 - 110	127462434
Thallium, Total	0.0507	0.05	mg/L	101	90.0 - 110	127462444
Thallium, Total	0.0505	0.05	mg/L	101	90.0 - 110	127462447

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Barium, Total	0.050	0.05	mg/L	100	90.0 - 110	127462320
Lead, Total	0.0505	0.05	mg/L	101	90.0 - 110	127462320
Selenium, Total	0.0513	0.05	mg/L	103	90.0 - 110	127462320
Thallium, Total	0.050	0.05	mg/L	100	90.0 - 110	127462320

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Barium, Total	1167652	0.518	0.517	0.500	85.0 - 115	104	103	mg/L	0.193	20.0
Lead, Total	1167652	0.521	0.516	0.500	85.0 - 115	104	103	mg/L	0.964	20.0
Selenium, Total	1167652	0.564	0.559	0.500	85.0 - 115	113	112	mg/L	0.890	20.0
Thallium, Total	1167652	0.499	0.494	0.500	85.0 - 115	99.8	98.8	mg/L	1.01	20.0

MRL Check

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*

APEA-A

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MRL Check

Parameter	Reading	Known	Units	Recover%	Limits%	File
Lead, Total	0.00102	0.001	mg/L	102	85.0 - 115	127462321

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Barium, Total	2393856	0.612	0.627	0.102	0.500	70.0 - 130	102	105	mg/L	2.90	20.0
Lead, Total	2393856	0.508	0.522	ND	0.500	70.0 - 130	102	104	mg/L	2.72	20.0
Selenium, Total	2393856	0.544	0.559	ND	0.500	70.0 - 130	109	112	mg/L	2.72	20.0
Thallium, Total	2393856	0.492	0.504	ND	0.500	70.0 - 130	98.4	101	mg/L	2.41	20.0

Analytical Set 1168097 — EPA 200.8 5.4

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Silver, Total	0.0504	0.05	mg/L	101	90.0 - 110	127464203
Silver, Total	0.051	0.05	mg/L	102	90.0 - 110	127464214
Silver, Total	0.050	0.05	mg/L	100	90.0 - 110	127464224

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Silver, Total	0.0505	0.05	mg/L	101	90.0 - 110	127464198

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Silver, Total	2393856	0.0844	0.0858	ND	0.100	70.0 - 130	84.4	85.8	mg/L	1.65	20.0

Analytical Set 1167960 — EPA 604.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Hexachlorophene	1167676	ND	0.890	2.50	ug/L	127460805

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Hexachlorophene	5120	5000	ug/L	102	70.0 - 130	127460804
Hexachlorophene	5090	5000	ug/L	102	70.0 - 130	127460808
Hexachlorophene	5230	5000	ug/L	105	70.0 - 130	127460812

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Hexachlorophene	1167676	38.5	33.7	50.0	25.5 - 145	77.0	67.4	ug/L	13.3	50.0

Analytical Set 1168306 — EPA 1657

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Azinphos-methyl (Guthion)	1167905	ND	41.4	50.0	ug/L	127468399
Chlorpyrifos	1167905	ND	22.6	50.0	ug/L	127468399
Demeton	1167905	ND	31.9	50.0	ug/L	127468399
Diazinon	1167905	ND	19.7	50.0	ug/L	127468399

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Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Malathion	1167905	ND	24.8	50.0	ug/L	127468399
Parathion, ethyl	1167905	ND	23.9	50.0	ug/L	127468399
Parathion, methyl	1167905	ND	27.4	50.0	ug/L	127468399

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Azinphos-methyl (Guthion)	1000	1000	ug/L	100	37.0 - 150	127468398
Azinphos-methyl (Guthion)	1450	1000	ug/L	145	37.0 - 150	127468403
Chlorpyrifos	1010	1000	ug/L	101	48.0 - 150	127468398
Chlorpyrifos	1270	1000	ug/L	127	48.0 - 150	127468403
Demeton	994	1000	ug/L	99.4	16.0 - 150	127468398
Demeton	1330	1000	ug/L	133	16.0 - 150	127468403
Diazinon	983	1000	ug/L	98.3	50.0 - 150	127468398
Diazinon	1230	1000	ug/L	123	50.0 - 150	127468403
Malathion	964	1000	ug/L	96.4	50.0 - 150	127468398
Malathion	1080	1000	ug/L	108	50.0 - 150	127468403
Parathion, ethyl	918	1000	ug/L	91.8	50.0 - 150	127468398
Parathion, ethyl	1230	1000	ug/L	123	50.0 - 150	127468403
Parathion, methyl	1010	1000	ug/L	101	50.0 - 150	127468398
Parathion, methyl	1230	1000	ug/L	123	50.0 - 150	127468403

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Azinphos-methyl (Guthion)	1167905	682	607	1000	0.100 - 152	68.2	60.7	ug/L	11.6	50.0
Chlorpyrifos	1167905	516	482	1000	0.100 - 132	51.6	48.2	ug/L	6.81	50.0
Demeton	1167905	347	310	1000	0.100 - 114	34.7	31.0	ug/L	11.3	50.0
Diazinon	1167905	456	403	1000	0.100 - 119	45.6	40.3	ug/L	12.3	50.0
Malathion	1167905	417	385	1000	0.100 - 126	41.7	38.5	ug/L	7.98	50.0
Parathion, ethyl	1167905	442	404	1000	0.100 - 138	44.2	40.4	ug/L	8.98	50.0
Parathion, methyl	1167905	467	444	1000	0.100 - 125	46.7	44.4	ug/L	5.05	50.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Tributylphosphate		CCV	1020	2000	ug/L	51.0	0.100 - 106	127468398
Tributylphosphate		CCV	1210	2000	ug/L	60.5	0.100 - 106	127468403
Triphenylphosphate		CCV	983	2000	ug/L	49.2	0.100 - 172	127468398
Triphenylphosphate		CCV	1250	2000	ug/L	62.5	0.100 - 172	127468403
Tributylphosphate	1167905	Blank	540	2000	ug/L	27.0	0.100 - 106	127468399
Tributylphosphate	1167905	LCS	456	2000	ug/L	22.8	0.100 - 106	127468400
Tributylphosphate	1167905	LCS Dup	407	2000	ug/L	20.4	0.100 - 106	127468401
Triphenylphosphate	1167905	Blank	526	2000	ug/L	26.3	0.100 - 172	127468399
Triphenylphosphate	1167905	LCS	466	2000	ug/L	23.3	0.100 - 172	127468400
Triphenylphosphate	1167905	LCS Dup	408	2000	ug/L	20.4	0.100 - 172	127468401
Tributylphosphate	2393856	Unknown	0.679	2.00	ug/L	34.0	0.100 - 106	127468402
Triphenylphosphate	2393856	Unknown	0.641	2.00	ug/L	32.0	0.100 - 172	127468402

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Analytical Set 1168631 — EPA 632

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Carbaryl (Sevin)	1167895	ND	66.1	2500	ug/L	127474809
Danitol	1167895	ND	66.1	2500	ug/L	127474809
Diuron	1167895	ND	44.4	45.0	ug/L	127474809

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
Carbaryl (Sevin)	9810	10000	ug/L	98.1	70.0 - 130		127474807
Carbaryl (Sevin)	10500	10000	ug/L	105	70.0 - 130		127474818
Danitol	9520	10000	ug/L	95.2	70.0 - 130		127474807
Danitol	10300	10000	ug/L	103	70.0 - 130		127474818
Diuron	9330	10000	ug/L	93.3	70.0 - 130		127474807
Diuron	10300	10000	ug/L	103	70.0 - 130		127474818

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Carbaryl (Sevin)	1167895	427	767	1000	17.1 - 131	42.7	76.7	ug/L	57.0 *	30.0
Danitol	1167895	3100	3850	1000	0.100 - 334	310	385 *	ug/L	21.6	30.0
Diuron	1167895	825	1240	1000	0.100 - 138	82.5	124	ug/L	40.2 *	30.0

Analytical Set 1168859 — EPA 617

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Kelthane (Dicofol)	1167899	ND	3.52	5.00	ug/L	127479778
Methoxychlor	1167899	ND	0.897	1.00	ug/L	127479778
Mirex	1167899	ND	0.905	1.00	ug/L	127479778

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
Kelthane (Dicofol)	105	100	ug/L	105	60.0 - 130		127479777
Kelthane (Dicofol)	47.7	100	ug/L	47.7	60.0 - 130	*	127479786
Methoxychlor	48.4	50.0	ug/L	96.8	70.0 - 130		127479777
Methoxychlor	34.8	50.0	ug/L	69.5	70.0 - 130	*	127479786
Mirex	43.0	50.0	ug/L	86.0	70.0 - 130		127479777
Mirex	39.4	50.0	ug/L	78.7	70.0 - 130		127479786

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Kelthane (Dicofol)	1167899	129	145	100	0.100 - 137	129	145 *	ug/L	11.7	30.0
Methoxychlor	1167899	79.6	87.6	100	21.5 - 151	79.6	87.6	ug/L	9.57	30.0
Mirex	1167899	61.5	69.6	100	11.6 - 140	61.5	69.6	ug/L	12.4	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl		CCV	44.1	100	ug/L	44.1	10.0 - 150	127479777
Decachlorobiphenyl		CCV	44.4	100	ug/L	44.4	10.0 - 150	127479786

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Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Tetrachloro-m-Xylene (Surr)		CCV	49.3	100	ug/L	49.3	10.0 - 150	127479777
Tetrachloro-m-Xylene (Surr)		CCV	48.6	100	ug/L	48.6	10.0 - 150	127479786
Decachlorobiphenyl	1167899	Blank	74.7	100	ug/L	74.7	10.0 - 150	127479778
Decachlorobiphenyl	1167899	LCS	76.8	100	ug/L	76.8	10.0 - 150	127479779
Decachlorobiphenyl	1167899	LCS Dup	78.8	100	ug/L	78.8	10.0 - 150	127479780
Tetrachloro-m-Xylene (Surr)	1167899	Blank	53.6	100	ug/L	53.6	10.0 - 150	127479778
Tetrachloro-m-Xylene (Surr)	1167899	LCS	49.3	100	ug/L	49.3	10.0 - 150	127479779
Tetrachloro-m-Xylene (Surr)	1167899	LCS Dup	49.0	100	ug/L	49.0	10.0 - 150	127479780
Decachlorobiphenyl	2393856	Unknown	0.0711	0.100	ug/L	71.1	10.0 - 150	127479782
Tetrachloro-m-Xylene (Surr)	2393856	Unknown	0.0697	0.100	ug/L	69.7	10.0 - 150	127479782

Analytical Set 1168867 — EPA 608.3

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
4,4-DDD	1167899	ND	0.731	1.00	ug/L	127479888
4,4-DDE	1167899	ND	0.361	1.00	ug/L	127479888
4,4-DDT	1167899	ND	0.862	1.00	ug/L	127479888
Aldrin	1167899	ND	0.260	1.00	ug/L	127479888
Alpha-BHC(hexachlorocyclohexane)	1167899	ND	0.280	1.00	ug/L	127479888
Beta-BHC(hexachlorocyclohexane)	1167899	0.660	0.579	1.00	ug/L	127479888
Delta-BHC(hexachlorocyclohexane)	1167899	ND	0.898	1.00	ug/L	127479888
Dieldrin	1167899	ND	0.162	1.00	ug/L	127479888
Endosulfan I (alpha)	1167899	ND	0.679	1.00	ug/L	127479888
Endosulfan II (beta)	1167899	ND	0.356	1.00	ug/L	127479888
Endosulfan sulfate	1167899	ND	0.588	1.00	ug/L	127479888
Endrin	1167899	ND	0.538	1.00	ug/L	127479888
Endrin aldehyde	1167899	ND	0.699	1.00	ug/L	127479888
Gamma-BHC(Lindane)	1167899	ND	0.385	1.00	ug/L	127479888
Heptachlor	1167899	ND	0.207	1.00	ug/L	127479888
Heptachlor epoxide	1167899	ND	0.660	1.00	ug/L	127479888
Toxaphene	1167899	ND	0.169	0.200	ug/L	127479888

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*		*File*
4,4-DDD	45.6	50.0	ug/L	91.2	75.0 - 125		127479887
4,4-DDD	49.5	50.0	ug/L	99.0	75.0 - 125		127479896
4,4-DDE	46.0	50.0	ug/L	92.0	75.0 - 125		127479887
4,4-DDE	48.0	50.0	ug/L	96.0	75.0 - 125		127479896
4,4-DDT	46.8	50.0	ug/L	93.6	75.0 - 125		127479887
4,4-DDT	31.8	50.0	ug/L	63.6	75.0 - 125	*	127479896
Aldrin	46.4	50.0	ug/L	92.8	75.0 - 125		127479887
Aldrin	53.1	50.0	ug/L	106	75.0 - 125		127479896
Alpha-BHC(hexachlorocyclohexane)	47.1	50.0	ug/L	94.2	75.0 - 125		127479887
Alpha-BHC(hexachlorocyclohexane)	55.2	50.0	ug/L	110	75.0 - 125		127479896
Beta-BHC(hexachlorocyclohexane)	47.1	50.0	ug/L	94.2	75.0 - 125		127479887

QUALITY CONTROL

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Apex Companies Austin
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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Beta-BHC(hexachlorocyclohexane)	52.6	50.0	ug/L	105	75.0 - 125	127479896
Delta-BHC(hexachlorocyclohexane)	50.0	50.0	ug/L	100	75.0 - 125	127479887
Delta-BHC(hexachlorocyclohexane)	56.7	50.0	ug/L	113	75.0 - 125	127479896
Dieldrin	45.6	50.0	ug/L	91.2	75.0 - 125	127479887
Dieldrin	52.1	50.0	ug/L	104	75.0 - 125	127479896
Endosulfan I (alpha)	44.7	50.0	ug/L	89.4	75.0 - 125	127479887
Endosulfan I (alpha)	50.6	50.0	ug/L	101	75.0 - 125	127479896
Endosulfan II (beta)	44.0	50.0	ug/L	88.0	75.0 - 125	127479887
Endosulfan II (beta)	46.0	50.0	ug/L	92.0	75.0 - 125	127479896
Endosulfan sulfate	46.0	50.0	ug/L	92.0	75.0 - 125	127479887
Endosulfan sulfate	45.8	50.0	ug/L	91.6	75.0 - 125	127479896
Endrin	45.6	50.0	ug/L	91.2	75.0 - 125	127479887
Endrin	52.1	50.0	ug/L	104	75.0 - 125	127479896
Endrin aldehyde	50.3	50.0	ug/L	101	75.0 - 125	127479887
Endrin aldehyde	47.7	50.0	ug/L	95.4	75.0 - 125	127479896
Gamma-BHC(Lindane)	46.3	50.0	ug/L	92.6	75.0 - 125	127479887
Gamma-BHC(Lindane)	45.4	50.0	ug/L	90.8	75.0 - 125	127479896
Heptachlor	44.2	50.0	ug/L	88.4	75.0 - 125	127479887
Heptachlor	40.7	50.0	ug/L	81.4	75.0 - 125	127479896
Heptachlor epoxide	44.2	50.0	ug/L	88.4	75.0 - 125	127479887
Heptachlor epoxide	52.1	50.0	ug/L	104	75.0 - 125	127479896

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
4,4-DDD	1167899	70.3	77.7	100	31.0 - 141	70.3	77.7	ug/L	10.0	39.0
4,4-DDE	1167899	62.3	68.2	100	30.0 - 145	62.3	68.2	ug/L	9.04	35.0
4,4-DDT	1167899	71.6	81.3	100	25.0 - 160	71.6	81.3	ug/L	12.7	42.0
Aldrin	1167899	49.3	54.8	100	42.0 - 140	49.3	54.8	ug/L	10.6	35.0
Alpha-BHC(hexachlorocyclohexane)	1167899	69.4	71.5	100	37.0 - 140	69.4	71.5	ug/L	2.98	36.0
Beta-BHC(hexachlorocyclohexane)	1167899	74.0	79.5	100	17.0 - 147	74.0	79.5	ug/L	7.17	44.0
Delta-BHC(hexachlorocyclohexane)	1167899	81.0	85.8	100	19.0 - 140	81.0	85.8	ug/L	5.76	52.0
Dieldrin	1167899	67.3	73.4	100	36.0 - 146	67.3	73.4	ug/L	8.67	49.0
Endosulfan I (alpha)	1167899	66.1	70.6	100	45.0 - 153	66.1	70.6	ug/L	6.58	28.0
Endosulfan II (beta)	1167899	75.9	80.3	100	0.100 - 202	75.9	80.3	ug/L	5.63	53.0
Endosulfan sulfate	1167899	78.3	83.2	100	26.0 - 144	78.3	83.2	ug/L	6.07	38.0
Endrin	1167899	74.4	79.6	100	30.0 - 147	74.4	79.6	ug/L	6.75	48.0
Endrin aldehyde	1167899	84.7	91.7	100	37.6 - 158	84.7	91.7	ug/L	7.94	30.0
Gamma-BHC(Lindane)	1167899	66.7	71.7	100	32.0 - 140	66.7	71.7	ug/L	7.23	39.0
Heptachlor	1167899	51.0	64.1	100	34.0 - 140	51.0	64.1	ug/L	22.8	43.0
Heptachlor epoxide	1167899	65.0	70.0	100	37.0 - 142	65.0	70.0	ug/L	7.41	26.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Decachlorobiphenyl		CCV	44.1	100	ug/L	44.1	0.100 - 144	127479887
Decachlorobiphenyl		CCV	44.4	100	ug/L	44.4	0.100 - 144	127479896

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tetrachloro-m-Xylene (Surr)		CCV	49.3	100	ug/L	49.3	0.100 - 107	127479887
Tetrachloro-m-Xylene (Surr)		CCV	48.6	100	ug/L	48.6	0.100 - 107	127479896
Decachlorobiphenyl	1167899	Blank	74.7	100	ug/L	74.7	0.100 - 144	127479888
Decachlorobiphenyl	1167899	LCS	76.8	100	ug/L	76.8	0.100 - 144	127479889
Decachlorobiphenyl	1167899	LCS Dup	78.8	100	ug/L	78.8	0.100 - 144	127479890
Tetrachloro-m-Xylene (Surr)	1167899	Blank	53.6	100	ug/L	53.6	0.100 - 107	127479888
Tetrachloro-m-Xylene (Surr)	1167899	LCS	49.3	100	ug/L	49.3	0.100 - 107	127479889
Tetrachloro-m-Xylene (Surr)	1167899	LCS Dup	49.0	100	ug/L	49.0	0.100 - 107	127479890
Decachlorobiphenyl	2393856	Unknown	0.0711	0.100	ug/L	71.1	0.100 - 144	127479892
Tetrachloro-m-Xylene (Surr)	2393856	Unknown	0.0697	0.100	ug/L	69.7	0.100 - 107	127479892

Analytical Set 1168894 — EPA 615

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
2,4 Dichlorophenoxyacetic acid	1168083	ND	0.237	0.500	ug/L	127480454
2,4,5-TP (Silvex)	1168083	0.183	0.130	0.300	ug/L	127480454

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
2,4 Dichlorophenoxyacetic acid	169	150	ug/L	112	80.0 - 115	127480453
2,4 Dichlorophenoxyacetic acid	171	150	ug/L	114	80.0 - 115	127480458
2,4,5-TP (Silvex)	155	150	ug/L	103	80.0 - 115	127480453
2,4,5-TP (Silvex)	141	150	ug/L	94.1	80.0 - 115	127480458

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
2,4 Dichlorophenoxyacetic acid	1168083	0.703	0.692	1.00	0.100 - 319	70.3	69.2	ug/L	1.58	30.0
2,4,5-TP (Silvex)	1168083	0.881	0.827	1.00	0.100 - 244	88.1	82.7	ug/L	6.32	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	154	200	ug/L	77.0	0.100 - 313	127480453
2,4-Dichlorophenylacetic Acid		CCV	178	200	ug/L	89.0	0.100 - 313	127480458
2,4-Dichlorophenylacetic Acid	1168083	Blank	138	200	ug/L	69.0	0.100 - 313	127480454
2,4-Dichlorophenylacetic Acid	1168083	LCS	170	200	ug/L	85.0	0.100 - 313	127480455
2,4-Dichlorophenylacetic Acid	1168083	LCS Dup	176	200	ug/L	88.0	0.100 - 313	127480456
2,4-Dichlorophenylacetic Acid	2393856	Unknown	0.633	2.00	ug/L	31.6	0.100 - 313	127480457

Analytical Set 1169408 — EPA 625.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
1,2,4,5-Tetrachlorobenzene	1167572	ND	1.03	1.03	ug/L	127488990
1,2,4-Trichlorobenzene	1167572	ND	0.941	1.00	ug/L	127488990
1,2-Dichlorobenzene	1167572	ND	1.04	5.00	ug/L	127488990
1,2-DPH (as azobenzene)	1167572	ND	0.238	1.00	ug/L	127488990

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Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
1,3-Dichlorobenzene	1167572	ND	0.954	5.00	ug/L	127488990
1,4-Dichlorobenzene	1167572	ND	1.01	5.00	ug/L	127488990
2,4,5-Trichlorophenol	1167572	ND	0.961	5.00	ug/L	127488990
2,4,6-Trichlorophenol	1167572	ND	1.24	2.00	ug/L	127488990
2,4-Dichlorophenol	1167572	ND	0.222	1.00	ug/L	127488990
2,4-Dimethylphenol	1167572	ND	0.536	1.00	ug/L	127488990
2,4-Dinitrophenol	1167572	ND	1.34	2.00	ug/L	127488990
2,4-Dinitrotoluene	1167572	ND	1.35	2.00	ug/L	127488990
2,6-Dinitrotoluene	1167572	ND	1.29	2.00	ug/L	127488990
2-Chloronaphthalene	1167572	ND	0.150	1.00	ug/L	127488990
2-Chlorophenol	1167572	ND	0.275	1.00	ug/L	127488990
2-Methylphenol (o-Cresol)	1167572	ND	8.48	10.0	ug/L	127488990
2-Nitrophenol	1167572	ND	0.554	1.00	ug/L	127488990
3&4-Methylphenol (m&p-Cresol)	1167572	ND	7.78	8.00	ug/L	127488990
3,3'-Dichlorobenzidine	1167572	ND	1.39	2.00	ug/L	127488990
4,6-Dinitro-2-methylphenol	1167572	ND	1.15	2.00	ug/L	127488990
4-Bromophenyl phenyl ether	1167572	ND	0.772	1.00	ug/L	127488990
4-Chlorophenyl phenyl ethe	1167572	ND	0.202	1.00	ug/L	127488990
4-Nitrophenol	1167572	ND	0.789	1.00	ug/L	127488990
Acenaphthene	1167572	ND	0.177	1.00	ug/L	127488990
Acenaphthylene	1167572	ND	0.240	1.00	ug/L	127488990
Anthracene	1167572	ND	0.241	1.00	ug/L	127488990
Benzidine	1167572	ND	1.40	1.50	ug/L	127488990
Benzo(a)anthracene	1167572	ND	0.225	1.00	ug/L	127488990
Benzo(a)pyrene	1167572	ND	0.900	1.00	ug/L	127488990
Benzo(b)fluoranthene	1167572	ND	0.547	1.00	ug/L	127488990
Benzo(ghi)perylene	1167572	ND	0.881	1.00	ug/L	127488990
Benzo(k)fluoranthene	1167572	ND	0.252	1.00	ug/L	127488990
Benzyl Butyl phthalate	1167572	1.10	0.204	7.50	ug/L	127488990
Bis(2-chloroethoxy)methane	1167572	ND	0.277	1.00	ug/L	127488990
Bis(2-chloroethyl)ether	1167572	ND	0.348	1.00	ug/L	127488990
Bis(2-chloroisopropyl)ether	1167572	ND	0.738	1.00	ug/L	127488990
Bis(2-ethylhexyl)phthalate	1167572	ND	1.12	7.50	ug/L	127488990
Chrysene (Benzo(a)phenanthrene)	1167572	ND	0.289	1.00	ug/L	127488990
Dibenz(a,h)anthracene	1167572	ND	0.689	1.00	ug/L	127488990
Diethyl phthalate	1167572	ND	0.253	5.70	ug/L	127488990
Dimethyl phthalate	1167572	ND	0.540	4.80	ug/L	127488990
Di-n-butylphthalate	1167572	ND	0.978	7.50	ug/L	127488990
Di-n-octylphthalate	1167572	ND	1.92	2.00	ug/L	127488990
Fluoranthene(Benzo(j,k)fluorene)	1167572	ND	0.318	1.00	ug/L	127488990
Fluorene	1167572	ND	0.275	1.00	ug/L	127488990
Hexachlorobenzene	1167572	ND	0.871	1.00	ug/L	127488990
Hexachlorobutadiene	1167572	ND	1.03	1.03	ug/L	127488990
Hexachlorocyclopentadiene	1167572	ND	0.536	1.00	ug/L	127488990
Hexachloroethane	1167572	ND	1.05	2.00	ug/L	127488990

QUALITY CONTROL

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Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Indeno(1,2,3-cd)pyrene	1167572	ND	0.596	1.00	ug/L	127488990
Isophorone	1167572	ND	0.429	1.00	ug/L	127488990
Naphthalene	1167572	ND	0.225	1.00	ug/L	127488990
Nitrobenzene	1167572	ND	0.271	1.00	ug/L	127488990
n-Nitrosodiethylamine	1167572	ND	0.747	1.00	ug/L	127488990
N-Nitrosodimethylamine	1167572	0.590	0.542	1.00	ug/L	127488990
n-Nitroso-di-n-butylamine	1167572	ND	0.210	1.00	ug/L	127488990
N-Nitrosodi-n-propylamine	1167572	ND	0.425	1.00	ug/L	127488990
N-Nitrosodiphenylamine (as DPA	1167572	ND	0.404	1.00	ug/L	127488990
p-Chloro-m-Cresol (4-Chloro-3-me	1167572	ND	0.588	1.00	ug/L	127488990
Pentachlorobenzene	1167572	ND	0.977	1.00	ug/L	127488990
Pentachlorophenol	1167572	ND	0.960	5.00	ug/L	127488990
Phenanthrene	1167572	ND	0.269	1.00	ug/L	127488990
Phenol	1167572	ND	0.332	1.00	ug/L	127488990
Pyrene	1167572	ND	0.291	1.00	ug/L	127488990
Pyridine	1167572	ND	1.35	1.35	ug/L	127488990

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*		*File*
1,2,4,5-Tetrachlorobenzene	56000	50000	ug/L	112	60.0 - 140		127488989
1,2,4-Trichlorobenzene	59900	50000	ug/L	120	61.0 - 130		127488989
1,2-Dichlorobenzene	54100	50000	ug/L	108	60.0 - 140		127488989
1,2-DPH (as azobenzene)	47500	50000	ug/L	95.0	60.0 - 140		127488989
1,3-Dichlorobenzene	49300	50000	ug/L	98.6	60.0 - 140		127488989
1,4-Dichlorobenzene	50700	50000	ug/L	101	60.0 - 140		127488989
2,4,5-Trichlorophenol	58800	50000	ug/L	118	69.0 - 130		127488989
2,4,6-Trichlorophenol	54500	50000	ug/L	109	69.0 - 130		127488989
2,4-Dichlorophenol	57200	50000	ug/L	114	64.0 - 130		127488989
2,4-Dimethylphenol	50100	50000	ug/L	100	58.0 - 130		127488989
2,4-Dinitrophenol	65400	50000	ug/L	131	39.0 - 173		127488989
2,4-Dinitrotoluene	55900	50000	ug/L	112	53.0 - 130		127488989
2,6-Dinitrotoluene	52900	50000	ug/L	106	68.0 - 137		127488989
2-Chloronaphthalene	58000	50000	ug/L	116	70.0 - 130		127488989
2-Chlorophenol	49800	50000	ug/L	99.6	55.0 - 130		127488989
2-Methylphenol (o-Cresol)	45400	50000	ug/L	90.8	60.0 - 140		127488989
2-Nitrophenol	64300	50000	ug/L	129	61.0 - 163		127488989
3&4-Methylphenol (m&p-Cresol)	57100	50000	ug/L	114	60.0 - 140		127488989
3,3'-Dichlorobenzidine	62700	50000	ug/L	125	18.0 - 213		127488989
4,6-Dinitro-2-methylphenol	66400	50000	ug/L	133	56.0 - 130	*	127488989
4-Bromophenyl phenyl ether	52400	50000	ug/L	105	70.0 - 130		127488989
4-Chlorophenyl phenyl ethe	57400	50000	ug/L	115	57.0 - 145		127488989
4-Nitrophenol	56500	50000	ug/L	113	35.0 - 135		127488989
Acenaphthene	47300	50000	ug/L	94.6	70.0 - 130		127488989
Acenaphthylene	49300	50000	ug/L	98.6	60.0 - 130		127488989
Anthracene	50000	50000	ug/L	100	58.0 - 130		127488989

QUALITY CONTROL

APEA-A

Apex Companies Austin
Margeret Schell
12501 Hymeadow Drive
Suite 1 G
Austin, TX 78750

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Benzidine	23500	50000	ug/L	47.0	20.0 - 180	127488989
Benzo(a)anthracene	58200	50000	ug/L	116	42.0 - 133	127488989
Benzo(a)pyrene	55800	50000	ug/L	112	32.0 - 148	127488989
Benzo(b)fluoranthene	51700	50000	ug/L	103	42.0 - 140	127488989
Benzo(ghi)perylene	65500	50000	ug/L	131	13.0 - 195	127488989
Benzo(k)fluoranthene	54900	50000	ug/L	110	25.0 - 146	127488989
Benzyl Butyl phthalate	51900	50000	ug/L	104	43.0 - 140	127488989
Bis(2-chloroethoxy)methane	55400	50000	ug/L	111	52.0 - 164	127488989
Bis(2-chloroethyl)ether	64200	50000	ug/L	128	52.0 - 130	127488989
Bis(2-chloroisopropyl)ether	48400	50000	ug/L	96.8	63.0 - 139	127488989
Bis(2-ethylhexyl)phthalate	51600	50000	ug/L	103	43.0 - 137	127488989
Chrysene (Benzo(a)phenanthrene)	53200	50000	ug/L	106	44.0 - 140	127488989
Dibenz(a,h)anthracene	61600	50000	ug/L	123	13.0 - 200	127488989
Diethyl phthalate	51600	50000	ug/L	103	47.0 - 130	127488989
Dimethyl phthalate	50900	50000	ug/L	102	50.0 - 130	127488989
Di-n-butylphthalate	52000	50000	ug/L	104	52.0 - 130	127488989
Di-n-octylphthalate	41700	50000	ug/L	83.4	21.0 - 132	127488989
Fluoranthene(Benzo(j,k)fluorene)	59800	50000	ug/L	120	47.0 - 130	127488989
Fluorene	51100	50000	ug/L	102	70.0 - 130	127488989
Hexachlorobenzene	57700	50000	ug/L	115	38.0 - 142	127488989
Hexachlorobutadiene	60400	50000	ug/L	121	68.0 - 130	127488989
Hexachlorocyclopentadiene	41600	50000	ug/L	83.2	60.0 - 140	127488989
Hexachloroethane	49900	50000	ug/L	99.8	55.0 - 130	127488989
Indeno(1,2,3-cd)pyrene	63700	50000	ug/L	127	13.0 - 151	127488989
Isophorone	62300	50000	ug/L	125	52.0 - 180	127488989
Naphthalene	57600	50000	ug/L	115	70.0 - 130	127488989
Nitrobenzene	54200	50000	ug/L	108	54.0 - 158	127488989
n-Nitrosodiethylamine	49700	50000	ug/L	99.4	60.0 - 140	127488989
N-Nitrosodimethylamine	57400	50000	ug/L	115	60.0 - 140	127488989
n-Nitroso-di-n-butylamine	57400	50000	ug/L	115	60.0 - 140	127488989
N-Nitrosodi-n-propylamine	55300	50000	ug/L	111	59.0 - 170	127488989
N-Nitrosodiphenylamine (as DPA	51500	50000	ug/L	103	60.0 - 140	127488989
p-Chloro-m-Cresol (4-Chloro-3-me	58700	50000	ug/L	117	68.0 - 130	127488989
Pentachlorobenzene	48600	50000	ug/L	97.2	60.0 - 140	127488989
Pentachlorophenol	55600	50000	ug/L	111	42.0 - 152	127488989
Phenanthrene	56200	50000	ug/L	112	67.0 - 130	127488989
Phenol	51600	50000	ug/L	103	48.0 - 130	127488989
Pyrene	51100	50000	ug/L	102	70.0 - 130	127488989
Pyridine	42800	50000	ug/L	85.6	60.0 - 140	127488989

DFTPP

Parameter		*RefMass*	*Reading*	*%*	*Limits%*	*File*
DFTPP Mass 127	630516	198	112163	54.4	40.0 - 60.0	127488988
DFTPP Mass 197	630516	198	252	0.1	0 - 1.00	127488988
DFTPP Mass 198	630516	198	206347	100.0	100 - 100	127488988

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DFTPP

Parameter		RefMass	Reading	%	Limits%	File
DFTPP Mass 199	630516	198	13999	6.8	5.00 - 9.00	127488988
DFTPP Mass 275	630516	198	44707	21.7	10.0 - 30.0	127488988
DFTPP Mass 365	630516	198	6444	3.1	1.00 - 100	127488988
DFTPP Mass 441	630516	443	20592	77.8	0 - 100	127488988
DFTPP Mass 442	630516	198	138589	67.2	40.0 - 100	127488988
DFTPP Mass 443	630516	442	26469	19.1	17.0 - 23.0	127488988
DFTPP Mass 51	630516	198	63493	30.8	30.0 - 60.0	127488988
DFTPP Mass 68	630516	69.0	123	0.2	0 - 2.00	127488988
DFTPP Mass 69	630516	198	74915	36.3	0 - 100	127488988
DFTPP Mass 70	630516	69.0	381	0.5	0 - 2.00	127488988

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
1,2,4,5-Tetrachlorobenzene	1167572	15.2	14.5	25.0	27.5 - 85.5	60.8	58.0	ug/L	4.71	50.0
1,2,4-Trichlorobenzene	1167572	11.1	10.2	25.0	44.0 - 142	44.4	40.8 *	ug/L	8.45	50.0
1,2-Dichlorobenzene	1167572	11.6	10.4	25.0	23.0 - 81.8	46.4	41.6	ug/L	10.9	50.0
1,2-DPH (as azobenzene)	1167572	22.2	22.6	25.0	12.6 - 110	88.8	90.4	ug/L	1.79	50.0
1,3-Dichlorobenzene	1167572	11.4	10.2	25.0	21.1 - 80.5	45.6	40.8	ug/L	11.1	50.0
1,4-Dichlorobenzene	1167572	11.1	10.1	25.0	21.4 - 76.9	44.4	40.4	ug/L	9.43	50.0
2,4,5-Trichlorophenol	1167572	25.4	26.3	25.0	51.3 - 109	102	105	ug/L	2.90	50.0
2,4,6-Trichlorophenol	1167572	23.9	24.0	25.0	37.0 - 144	95.6	96.0	ug/L	0.418	58.0
2,4-Dichlorophenol	1167572	21.9	22.8	25.0	39.0 - 135	87.6	91.2	ug/L	4.03	50.0
2,4-Dimethylphenol	1167572	11.2	9.47	25.0	23.0 - 120	44.8	37.9	ug/L	16.7	68.0
2,4-Dinitrophenol	1167572	15.3	19.5	25.0	0.100 - 191	61.2	78.0	ug/L	24.1	132
2,4-Dinitrotoluene	1167572	22.2	24.2	25.0	39.0 - 139	88.8	96.8	ug/L	8.62	42.0
2,6-Dinitrotoluene	1167572	22.4	23.8	25.0	50.0 - 158	89.6	95.2	ug/L	6.06	48.0
2-Chloronaphthalene	1167572	15.5	14.1	25.0	60.0 - 120	62.0	56.4 *	ug/L	9.46	24.0
2-Chlorophenol	1167572	19.2	19.0	25.0	23.0 - 134	76.8	76.0	ug/L	1.05	61.0
2-Methylphenol (o-Cresol)	1167572	17.4	17.5	25.0	38.9 - 76.1	69.6	70.0	ug/L	0.573	50.0
2-Nitrophenol	1167572	21.2	21.5	25.0	29.0 - 182	84.8	86.0	ug/L	1.41	55.0
3&4-Methylphenol (m&p-Cresol)	1167572	17.1	17.0	25.0	33.0 - 70.4	68.4	68.0	ug/L	0.587	50.0
3,3'-Dichlorobenzidine	1167572	22.8	22.3	25.0	0.100 - 262	91.2	89.2	ug/L	2.22	108
4,6-Dinitro-2-methylphenol	1167572	20.9	25.4	25.0	0.100 - 181	83.6	102	ug/L	19.8	203
4-Bromophenyl phenyl ether	1167572	22.0	23.0	25.0	53.0 - 127	88.0	92.0	ug/L	4.44	43.0
4-Chlorophenyl phenyl ethe	1167572	23.8	23.9	25.0	25.0 - 158	95.2	95.6	ug/L	0.419	61.0
4-Nitrophenol	1167572	9.31	11.3	25.0	0.100 - 132	37.2	45.2	ug/L	19.4	131
Acenaphthene	1167572	16.3	16.8	25.0	47.0 - 145	65.2	67.2	ug/L	3.02	48.0
Acenaphthylene	1167572	16.4	16.8	25.0	33.0 - 145	65.6	67.2	ug/L	2.41	74.0
Anthracene	1167572	23.3	24.9	25.0	27.0 - 133	93.2	99.6	ug/L	6.64	66.0
Benzidine	1167572	1.85	0.790	25.0	0.100 - 36.9	7.40	3.16	ug/L	80.3	90.0
Benzo(a)anthracene	1167572	24.3	25.3	25.0	33.0 - 143	97.2	101	ug/L	3.83	53.0
Benzo(a)pyrene	1167572	23.3	24.3	25.0	17.0 - 163	93.2	97.2	ug/L	4.20	72.0
Benzo(b)fluoranthene	1167572	23.9	24.6	25.0	24.0 - 159	95.6	98.4	ug/L	2.89	71.0
Benzo(ghi)perylene	1167572	28.4	28.8	25.0	0.100 - 219	114	115	ug/L	0.873	97.0
Benzo(k)fluoranthene	1167572	24.6	25.8	25.0	11.0 - 162	98.4	103	ug/L	4.57	63.0

QUALITY CONTROL

APEA-A

Apex Companies Austin
Margeret Schell
12501 Hymeadow Drive
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Austin, TX 78750

Project
1141300

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LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Benzyl Butyl phthalate	1167572	22.8	23.6	25.0	0.100 - 152	91.2	94.4	ug/L	3.45	60.0
Bis(2-chloroethoxy)methane	1167572	20.6	20.8	25.0	33.0 - 184	82.4	83.2	ug/L	0.966	54.0
Bis(2-chloroethyl)ether	1167572	18.5	18.6	25.0	12.0 - 158	74.0	74.4	ug/L	0.539	108
Bis(2-chloroisopropyl)ether	1167572	16.7	15.8	25.0	36.0 - 166	66.8	63.2	ug/L	5.54	76.0
Bis(2-ethylhexyl)phthalate	1167572	23.1	23.3	25.0	8.00 - 158	92.4	93.2	ug/L	0.862	82.0
Chrysene (Benzo(a)phenanthrene)	1167572	23.9	24.5	25.0	17.0 - 168	95.6	98.0	ug/L	2.48	87.0
Dibenz(a,h)anthracene	1167572	27.4	28.2	25.0	0.100 - 227	110	113	ug/L	2.69	126
Diethyl phthalate	1167572	22.9	23.6	25.0	0.100 - 120	91.6	94.4	ug/L	3.01	100
Dimethyl phthalate	1167572	22.2	22.9	25.0	0.100 - 120	88.8	91.6	ug/L	3.10	183
Di-n-butylphthalate	1167572	25.6	26.0	25.0	1.00 - 120	102	104	ug/L	1.94	47.0
Di-n-octylphthalate	1167572	17.7	19.3	25.0	4.00 - 146	70.8	77.2	ug/L	8.65	69.0
Fluoranthene(Benzo(j,k)fluorene)	1167572	24.5	26.6	25.0	26.0 - 137	98.0	106	ug/L	7.84	66.0
Fluorene	1167572	20.5	21.4	25.0	59.0 - 121	82.0	85.6	ug/L	4.30	38.0
Hexachlorobenzene	1167572	27.6	27.4	25.0	0.100 - 152	110	110	ug/L	0	55.0
Hexachlorobutadiene	1167572	11.1	9.68	25.0	24.0 - 120	44.4	38.7	ug/L	13.7	62.0
Hexachlorocyclopentadiene	1167572	5.87	6.66	25.0	3.97 - 68.7	23.5	26.6	ug/L	12.4	50.0
Hexachloroethane	1167572	10.9	9.81	25.0	40.0 - 120	43.6	39.2 *	ug/L	10.6	52.0
Indeno(1,2,3-cd)pyrene	1167572	26.0	27.0	25.0	0.100 - 171	104	108	ug/L	3.77	99.0
Isophorone	1167572	20.7	20.7	25.0	21.0 - 196	82.8	82.8	ug/L	0	93.0
Naphthalene	1167572	13.1	12.8	25.0	21.0 - 133	52.4	51.2	ug/L	2.32	65.0
Nitrobenzene	1167572	19.4	18.7	25.0	35.0 - 180	77.6	74.8	ug/L	3.67	62.0
n-Nitrosodiethylamine	1167572	9.52	9.12	25.0	18.0 - 100	38.1	36.5	ug/L	4.29	50.0
N-Nitrosodimethylamine	1167572	14.4	15.0	25.0	30.2 - 74.9	57.6	60.0	ug/L	4.08	50.0
n-Nitroso-di-n-butylamine	1167572	20.3	21.3	25.0	48.4 - 98.5	81.2	85.2	ug/L	4.81	50.0
N-Nitrosodi-n-propylamine	1167572	23.1	22.3	25.0	0.100 - 230	92.4	89.2	ug/L	3.52	87.0
N-Nitrosodiphenylamine (as DPA	1167572	24.8	25.1	25.0	49.3 - 94.2	99.2 *	100 *	ug/L	0.803	50.0
p-Chloro-m-Cresol (4-Chloro-3-me	1167572	22.9	24.2	25.0	22.0 - 147	91.6	96.8	ug/L	5.52	70.0
Pentachlorobenzene	1167572	17.6	18.5	25.0	39.3 - 93.7	70.4	74.0	ug/L	4.99	50.0
Pentachlorophenol	1167572	22.1	25.8	25.0	14.0 - 176	88.4	103	ug/L	15.3	86.0
Phenanthrene	1167572	26.9	27.7	25.0	54.0 - 120	108	111	ug/L	2.74	39.0
Phenol	1167572	9.09	9.51	25.0	5.00 - 120	36.4	38.0	ug/L	4.30	64.0
Pyrene	1167572	23.8	24.9	25.0	52.0 - 120	95.2	99.6	ug/L	4.52	49.0
Pyridine	1167572	9.02	4.73	25.0	11.2 - 50.6	36.1	18.9	ug/L	62.5 *	50.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
2,4,6-Tribromophenol	630534	CCV	59800	100000	ug/L	59.8	10.0 - 150	127488989
2-Fluorophenol-SURR	630534	CCV	61800	100000	ug/L	61.8	10.0 - 150	127488989
4-Terphenyl-d14-SURR	630534	CCV	44400	50000	ug/L	88.8	30.0 - 150	127488989
Nitrobenzene-d5-SURR	630534	CCV	51600	50000	ug/L	103	30.0 - 150	127488989
Phenol-d6-SURR	630534	CCV	63900	100000	ug/L	63.9	10.0 - 150	127488989
2,4,6-Tribromophenol	1167572	Blank	28.2	100	ug/L	28.2	10.0 - 150	127488990
2,4,6-Tribromophenol	1167572	LCS	41.8	100	ug/L	41.8	10.0 - 150	127488991
2,4,6-Tribromophenol	1167572	LCS Dup	44.8	100	ug/L	44.8	10.0 - 150	127488992
2-Fluorophenol-SURR	1167572	Blank	23300	100000	ug/L	23.3	10.0 - 150	127488990

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APEA-A

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1141300

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2-Fluorophenol-SURR	1167572	LCS	28000	100000	ug/L	28.0	10.0 - 150	127488991
2-Fluorophenol-SURR	1167572	LCS Dup	27200	100000	ug/L	27.2	10.0 - 150	127488992
4-Terphenyl-d14-SURR	1167572	Blank	41600	50000	ug/L	83.2	30.0 - 150	127488990
4-Terphenyl-d14-SURR	1167572	LCS	44300	50000	ug/L	88.6	30.0 - 150	127488991
4-Terphenyl-d14-SURR	1167572	LCS Dup	45100	50000	ug/L	90.2	30.0 - 150	127488992
Nitrobenzene-d5-SURR	1167572	Blank	30500	50000	ug/L	61.0	30.0 - 150	127488990
Nitrobenzene-d5-SURR	1167572	LCS	36300	50000	ug/L	72.6	30.0 - 150	127488991
Nitrobenzene-d5-SURR	1167572	LCS Dup	35700	50000	ug/L	71.4	30.0 - 150	127488992
Phenol-d6-SURR	1167572	Blank	14800	100000	ug/L	14.8	10.0 - 150	127488990
Phenol-d6-SURR	1167572	LCS	18400	100000	ug/L	18.4	10.0 - 150	127488991
Phenol-d6-SURR	1167572	LCS Dup	19300	100000	ug/L	19.3	10.0 - 150	127488992
2,4,6-Tribromophenol	2393856	Unknown	41.4	102	ug/L	40.6	10.0 - 150	127488993
2-Fluorophenol-SURR	2393856	Unknown	24.1	102	ug/L	23.6	10.0 - 150	127488993
4-Terphenyl-d14-SURR	2393856	Unknown	37.9	51.2	ug/L	74.0	30.0 - 150	127488993
Nitrobenzene-d5-SURR	2393856	Unknown	35.0	51.2	ug/L	68.4	30.0 - 150	127488993
Phenol-d6-SURR	2393856	Unknown	16.9	102	ug/L	16.6	10.0 - 150	127488993

Analytical Set 1169467 — EPA 608.3

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
PCB-1016	1140	1000	ug/L	114	80.0 - 115		127490254
PCB-1016	1180	1000	ug/L	118	80.0 - 115	*	127490266
PCB-1260	1110	1000	ug/L	111	80.0 - 115		127490254
PCB-1260	1230	1000	ug/L	123	80.0 - 115	*	127490266

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	2393856	Unknown	0.0711	0.100	ug/L	71.1	10.0 - 200	127490258
Tetrachloro-m-Xylene (Surr)	2393856	Unknown	0.0697	0.100	ug/L	69.7	10.0 - 200	127490258

Analytical Set 1169722 — TX 1001

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Tributyltin hydride	1168553	ND	0.005	0.007	ug/L	127494463

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Tributyltin hydride	46500	50000	ug/L	93.1	70.0 - 130	127494459

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Tributyltin hydride	1168553	202	189	500	0.100 - 211	40.4	37.8	ug/L	6.65	30.0

Analytical Set 1170028 — EPA 625.1

QUALITY CONTROL

APEA-A

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12501 Hymeadow Drive
Suite 1 G
Austin, TX 78750

Project
1141300

Printed 05/16/2025

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
2-Chlorophenol	2393609	19.1	17.9	ND	25.1	8.98 - 122	76.4	71.6	ug/L	6.49	30.0
2-Methylphenol (o-Cresol)	2393609	16.7	15.8	ND	25.1	0.100 - 107	66.8	63.2	ug/L	5.54	30.0
3&4-Methylphenol (m&p-Cresol)	2393609	16.4	14.9	ND	25.1	0.100 - 108	65.6	59.6	ug/L	9.58	30.0
Acenaphthene	2393609	15.7	15.7	ND	25.1	5.27 - 137	62.8	62.8	ug/L	0	30.0
Acenaphthylene	2393609	16.2	16.1	ND	25.1	16.2 - 123	64.8	64.4	ug/L	0.619	30.0
Anthracene	2393609	21.0	21.4	ND	25.1	17.1 - 130	84.0	85.6	ug/L	1.89	30.0
Benzo(a)anthracene	2393609	21.2	22.3	ND	25.1	32.8 - 118	84.8	89.2	ug/L	5.06	30.0
Benzyl Butyl phthalate	2393609	20.0	22.1	0.852	25.1	7.60 - 140	76.6	85.0	ug/L	10.4	30.0
Chrysene (Benzo(a)phenanthrene)	2393609	19.7	20.9	ND	25.1	28.2 - 122	78.8	83.6	ug/L	5.91	30.0
Diethyl phthalate	2393609	20.7	21.1	0.294	25.1	0.565 - 140	81.6	83.2	ug/L	1.94	30.0
Di-n-butylphthalate	2393609	22.7	23.8	ND	25.1	0.100 - 156	90.8	95.2	ug/L	4.73	30.0
Fluoranthene(Benzo(j,k)fluorene)	2393609	23.8	24.2	ND	25.1	13.3 - 135	95.2	96.8	ug/L	1.67	30.0
Fluorene	2393609	19.4	18.9	ND	25.1	32.7 - 120	77.6	75.6	ug/L	2.61	30.0
Naphthalene	2393609	12.2	14.4	ND	25.1	6.27 - 127	48.8	57.6	ug/L	16.5	30.0
Phenanthrene	2393609	23.3	23.9	ND	25.1	26.9 - 125	93.2	95.6	ug/L	2.54	30.0
Phenol	2393609	8.84	8.22	ND	25.1	0.100 - 122	35.4	32.9	ug/L	7.27	30.0
Pyrene	2393609	19.6	22.1	ND	25.1	0.100 - 173	78.4	88.4	ug/L	12.0	30.0

Analytical Set 1167646 — SM 2120 B-2011

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Color	1167646	ND	5.0	5.0	PtCo Units	127453948

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
Color	2393683	20	20	PtCo Units	0	20

Analytical Set 1167651 — SM 4500-$SO_3^{=}$ B-2011/EPA 377.1

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Sulfite, Lab	1167651	ND	2.00	2.00	mg/L	127453980

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
Sulfite, Lab	2393843	ND	ND	mg/L		20.0

Analytical Set 1167729 — SM 4500-$S2^{=}$ D-2011

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Sulfide	1167729	ND	0.020	0.020	mg/L	127455580

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
Sulfide	2393220	0.0207	0.0224	mg/L	7.89	20.0
Sulfide	2393856	ND	ND	mg/L		20.0

Email: Kilgore.ProjectManagement@spllabs.com

APEA-A

Apex Companies Austin
Margeret Schell
12501 Hymeadow Drive
Suite 1 G
Austin, TX 78750

Project
1141300

Printed 05/16/2025

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Sulfide	1167729	0.0803	0.0735	0.070	85.0 - 115	107	105	mg/L	8.84	20.0

Analytical Set 1167888 — SM 5540 C-2011

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
MBAS (Surfactant/Foaming Agents)	1167888	ND	0.200	0.200	mg/L	127458709

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
MBAS (Surfactant/Foaming Agents)	2394018	ND	ND	mg/L		20.0

LCS

Parameter	*PrepSet*	*Reading*	*Known*	*Units*	*Recover%*	*Limits*	*File*
MBAS (Surfactant/Foaming Agents)	1167888	10.0	10.0	mg/L	100	85.0 - 115	127458710

Analytical Set 1168204 — SM 5220 D-2011

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Chemical Oxygen Demand	1168204	ND	20.0	20.0	mg/L	127466338

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Chemical Oxygen Demand	402	400	mg/L	100	90.0 - 110	127466339

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
Chemical Oxygen Demand	2393856	ND	ND	mg/L		20.0
Chemical Oxygen Demand	2394168	263	269	mg/L	2.26	20.0

LCS

Parameter	*PrepSet*	*Reading*	*Known*	*Units*	*Recover%*	*Limits*	*File*
Chemical Oxygen Demand	1168204	199	200	mg/L	99.5	90.0 - 110	127466340

Mat. Spike

Parameter	*Sample*	*Spike*	*Unknown*	*Known*	*Units*	*Recovery %*	*Limits %*	*File*
Chemical Oxygen Demand	2393856	237	ND	220	mg/L	108	80.0 - 120	127466343
Chemical Oxygen Demand	2394168	456	269	220	mg/L	85.0	80.0 - 120	127466355

Analytical Set 1168742 — SM 2320 B-2011

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Total Alkalinity (as CaCO3)	1168742	ND	1.00	1.00	mg/L	127477247

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Total Alkalinity (as CaCO3)	27.1	25.0	mg/L	108	90.0 - 110	127477246
Total Alkalinity (as CaCO3)	24.6	25.0	mg/L	98.4	90.0 - 110	127477260

QUALITY CONTROL

APEA-A

Apex Companies Austin
Margeret Schell
12501 Hymeadow Drive
Suite 1 G
Austin, TX 78750

Project
1141300

Printed 05/16/2025

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Total Alkalinity (as CaCO3)	27.1	25.0	mg/L	108	90.0 - 110	127477273

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
Total Alkalinity (as CaCO3)	2393844	19.7	19.7	mg/L	0	20.0
Total Alkalinity (as CaCO3)	2394345	323	326	mg/L	0.924	20.0

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Total Alkalinity (as CaCO3)	24.6	25.0	mg/L	98.4	90.0 - 110	127477245

Mat. Spike

Parameter	*Sample*	*Spike*	*Unknown*	*Known*	*Units*	*Recovery %*	*Limits %*	*File*	
Total Alkalinity (as CaCO3)	2393844	42.4	19.7	25.0	mg/L	90.8	70.0 - 130	127477250	
Total Alkalinity (as CaCO3)	2394345	338	326	25.0	mg/L	48.0	70.0 - 130	127477263	*

* Out RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100% Recover% is Recovery Percent: result / known * 100%

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); LCS - Laboratory Control Sample (reagent water or other blank matrices that is spiked with a known quantity of target analyte(s) and carried through preparation and analytical procedures exactly like a sample; typically a mid-range concentration; verifies that bias and precision of the analytical process are within control limits; determines usability of the data.); CCB - Continuing Calibration Blank; CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); MSD - Matrix Spike Duplicate (replicate of the matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.); ICV - Initial Calibration Verification; AWRL/LOQ C - Ambient Water Reporting Limit/LOQ Check Std; LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); LDR - Linear Dynamic Range Standard; MRL Check - Minimum Reporting Limit Check Std; Surrogate - Surrogate (mimics the analyte of interest but is unlikely to be found in environmental samples; added to analytical samples for QC purposes. **ANSI/ASQC E4 1994 Ref #4 TRADE QA Resources Guide.); DFTPP - GC/MS Tuning Compound

1141300 CoC Print Group 001 of 001

Your Partner for Success
Office: (903) 984-0551 Fax: (903) 984-5914

CHAIN OF CUSTODY

Printed: 03/18/2025 Page 1 of 5

Lab Number 2393856

Apex Companies Austin
Margeret Schell
12501 Hymeadow Drive
Suite 1 G
Austin, TX 78750

APEA-A
102

PO Number

Phone 512-503-8495

BT TPDES Permit Comp

☐ Hazardous Waste Regulated TAC

#1 Autosampler # 7241 Bottle # 001501

Sample poured Date: 3-27-25 Time: 0910

#2 Autosampler # 6358 Bottle # 001726

Sample poured Date: 3-27-25 Time: 0920

Matrix: Non-Potable Water

Sample Collection Start

Date: 3-26-25 Time: 0800

Sampler Printed Name: Greg Chapman

Sampler Affiliation: SPL

Sampler Signature: Greg Chapman

Sample Collection Stop

Date: 3-27-25 Time: 0700

Sampler Printed Name: Greg Chapman

Sampler Affiliation: SPL

Sampler Signature: Greg Chapman

Samples Radioactive? ☐ Samples Cytotoxic Drugs? ☐ Samples Biological Hazard? ☐

1 On Site Testing

Short Hold	Cr6F	Hex Cr, Field Preservation	SM 3500-Cr B-2011 CAS:18540-29-9 (1.00 days)

Hex Cr, Field Preservation

Collected By Greg Date 3-27-25 Time 0910 Analyzed By Greg Date 3-27-25 Time 0911

9 Amber Glass Qt w/Teflon lined lid

!HER	Herbicides by GC	EPA 615 (7.00 days)
!PCB	Polychlorinated Biphenyls	EPA 608.3 (7.00 days)
!PPR	TTO Pesticides	EPA 608.3 (7.00 days)
#MDR	For use with !PPR only	EPA 617 (7.00 days)
HXPE	Hexachlorophene Expansion	EPA 604.1 CAS:70-30-4 (7.00 days)

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

Section 1. Preliminary Screening

☐ New Permit or Registration Application

☒ New Activity – modification, registration, amendment, facility, etc. (see instructions)

If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.

Section 2. Secondary Screening

☒ Requires public notice,

☐ Considered to have significant public interest, **and**

☐ Located within any of the following geographical locations:

- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

If all the above boxes are not checked, a Public Involvement Plan is not necessary. Stop after Section 2 and submit the form.

☒ Public Involvement Plan not applicable to this application. Provide **brief** explanation.

Request increase in wastewater discharge flow for 2 additional bottling lines. The additional producti

Section 3. Application Information

Type of Application (check all that apply):

Air ☐ Initial ☐ Federal ☐ Amendment ☐ Standard Permit ☐ Title V

Waste ☐ Municipal Solid Waste ☐ Industrial and Hazardous Waste ☐ Scrap Tire
☐ Radioactive Material Licensing ☐ Underground Injection Control

Water Quality

☐ Texas Pollutant Discharge Elimination System (TPDES)

- ☐ Texas Land Application Permit (TLAP)
- ☐ State Only Concentrated Animal Feeding Operation (CAFO)
- ☐ Water Treatment Plant Residuals Disposal Permit

☐ Class B Biosolids Land Application Permit

☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water

☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water

☐ Add a New or Existing Reservoir

☐ Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Section 5. Community and Demographic Information

Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.

Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.

(City)

(County)

(Census Tract)
Please indicate which of these three is the level used for gathering the following information.

☐ City ☐ County ☐ Census Tract

(a) Percent of people over 25 years of age who at least graduated from high school

(b) Per capita income for population near the specified location

(c) Percent of minority population and percent of population by race within the specified location

(d) Percent of Linguistically Isolated Households by language within the specified location

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?

☐ Yes ☐ No

(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?

☐ Yes ☐ No

If Yes, please describe.

If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.

(c) Will you provide notice of this application in alternative languages?

☐ Yes ☐ No

Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.

If yes, how will you provide notice in alternative languages?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

(d) Is there an opportunity for some type of public meeting, including after notice?

☐ Yes ☐ No

(e) If a public meeting is held, will a translator be provided if requested?

☐ Yes ☐ No

(f) Hard copies of the application will be available at the following (check all that apply):

☐ TCEQ Regional Office ☐ TCEQ Central Office

☐ Public Place (specify)

Section 7. Voluntary Submittal

For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.

Will you provide notice of this application, including notice in alternative languages?

☐ Yes ☐ No

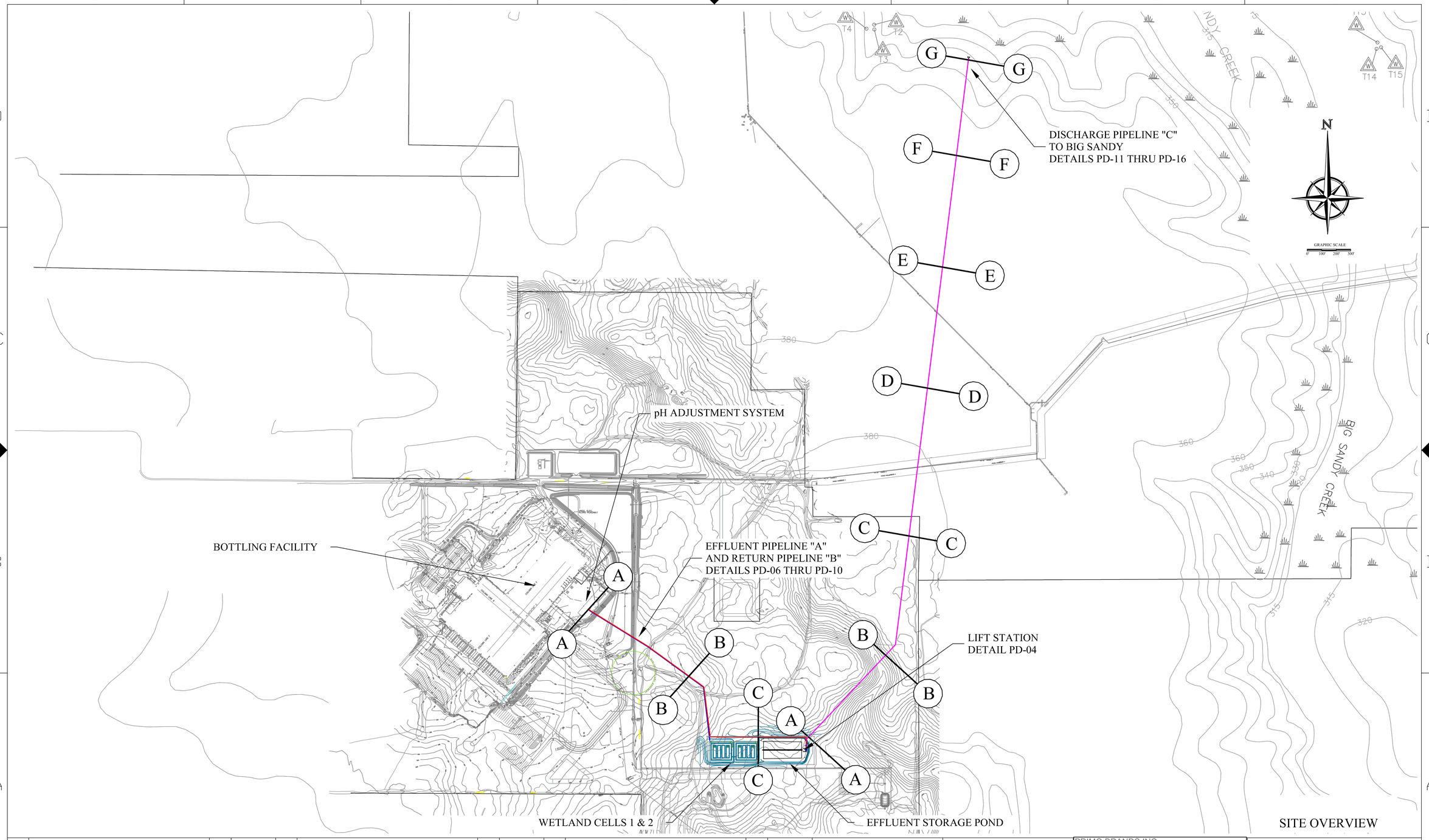
What types of notice will be provided?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)



SITE OVERVIEW

REV.	REVISION DESCRIPTION	DRN.	REV. DATE
G	INFORMATION ONLY – TPDES RENEWAL APPLICATION	JBB	01–2011
F	AS BUILT	JBB	08–29–08
E	ISSUED FOR CONSTRUCTION	JBB	12–21–07
D	ISSUED FOR FINAL REVIEW	JBB	10/23/07
C	ISSUED FOR PERMITTING	JBB	10–16–06
B	ADDED INSPECTION PORTAL	JBB	09–05–06
A	DRAFT – INITIAL RELEASE	JBB	08–11–06

DRAWN: JBB | DESIGN FIRM CONTROL NO.: TITAN

PRIMO BRANDS INC
WOOD COUNTY BOTTLING PLANT
HAWKINS, WOOD COUNTY, TEXAS

UTILITY SYSTEMS
SITE OVERVIEW
GENERAL REFERENCE

DATE: 08–16–07 | D.M.: S. LOLLING | SCALE: 1" = 300'

SIZE: D | SHEET NO.: WF07–GR–05 | REV. NO.: G

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

_____ Texas Historical Commission _____ U.S. Fish and Wildlife

_____ Texas Parks and Wildlife Department _____ U.S. Army Corps of Engineers

This form applies to TPDES permit applications only. (Instructions, Page 53)

Complete this form as a separate document. TCEQ will mail a copy to each agency as required by our agreement with EPA. If any of the items are not completely addressed or further information is needed, we will contact you to provide the information before issuing the permit. Address each item completely.

Do not refer to your response to any item in the permit application form. Provide each attachment for this form separately from the Administrative Report of the application. The application will not be declared administratively complete without this SPIF form being completed in its entirety including all attachments. Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

The following applies to all applications:

1. Permittee: Primo Brands

   Permit No. WQ00 04812000 EPA ID No. TX 0129186

   Address of the project (or a location description that includes street/highway, city/vicinity, and county):

   3265 S FM 2869, Hawkins, TX 75765

Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.

Prefix (Mr., Ms., Miss): Mr.

First and Last Name: Brandon Holland

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: Primo Brands

Mailing Address: 3265 S FM 2869

City, State, Zip Code: Hawkins, TX 75765

Phone No.: 903-707-7350 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: Brandon.holland@primobrands.com

2. List the county in which the facility is located: Wood
3. If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.

Click here to enter text.

4. Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number.

Discharge from constructed wetland system is pumped to Outfall 001 with direct discharges to Big Sandy Creek (Segment 0514). No changes in the existing permitted outfall or effluent discharge route is proposed

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report).

Provide original photographs of any structures 50 years or older on the property.

Does your project involve any of the following? Check all that apply.

- ☐ Proposed access roads, utility lines, construction easements
- ☐ Visual effects that could damage or detract from a historic property's integrity
- ☐ Vibration effects during construction or as a result of project design
- ☐ Additional phases of development that are planned for the future
- ☐ Sealing caves, fractures, sinkholes, other karst features

☐ Disturbance of vegetation or wetlands

1. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):

Existing facility

2. Describe existing disturbances, vegetation, and land use:

Existing facility for manufacturing of bottled spring water and drinking water products.

THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

3. List construction dates of all buildings and structures on the property:

Manufacturing building was constructed in 2002. Wetlands were constructed in 2008.

4. Provide a brief history of the property, and name of the architect/builder, if known.

General contractor for the original manufacturing plant construction was Haskell. Prior to construction the property was undeveloped.

TECHNICAL REPORT

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

The following information **is required** for all applications for a TLAP or an individual TPDES discharge permit.

For **additional information** or clarification on the requested information, please refer to the Instructions for Completing the Industrial Wastewater Permit Application[1] available on the TCEQ website. Please contact the Industrial Permits Team at 512-239-4671 with any questions about this form.

If more than one outfall is included in the application, provide applicable information for each individual outfall. **If an item does not apply to the facility, enter N/A** to indicate that the item has been considered. Include separate reports or additional sheets as **clearly cross-referenced attachments** and provide the attachment number in the space provided for the item the attachment addresses.

NOTE: This application is for an industrial wastewater permit only. Additional authorizations from the TCEQ Waste Permits Division or the TCEQ Air Permits Division may be needed.

Item 1. Facility/Site Information (Instructions, Page 39)

a. Describe the general nature of the business and type(s) of industrial and commercial activities. Include all applicable SIC codes (up to 4).

The Primo Brands(Primo) Wood County Bottling Plant was developed around a series of natural spring water sources on-site. Primo collects spring water from an array of boreholes located on the east and west side of Big Sandy Creek. The bottling facility has manufacturing, warehouse, and distribution of spring water and drinking water in accordance with TDH/FDA requirements. The bottling plant has multiple Public Water Supply (PWS) wells which provide the raw water source for the facilities spring and drinking water products. PWS wells PW-1 through PW-16 are authorized via TCEQ PWS ID 2500059. Plant Utility Wells (UW-1 through UW-4) are authorized under PWS ID 2500060. Applicable SIC Codes are 2086 and 5149. Applicable NAICS Codes are 312112 and 42249.

b. Describe all wastewater-generating processes at the facility.

Wastewater is generated from various bottling operations and includes wastewater from Reserve-Osmosis (RO) units, bottle filler spills and flushes, cleaning water from bottling lines, Clean-In-Place (CIP) processes, carbon and microfiltration systems, boiler blowdown and cooling tower blowdown. These wastewater streams receive primary treatment including separation of any oil and pH adjustment. Secondary treatment is provided through an engineered wetland system with passive, biological practices that mimic ecological water purification. This is accomplished with a combination of wetland plant material, organic soil media, and inorganic gravel media providing treatment through plan uptake, absorption, microbial activity, and filtering. The effluent is monitored for direct discharge to Big Sandy Creek (Segment 0514).

[1] https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES_industrial_wastewater_steps.html

c. Provide a list of raw materials, major intermediates, and final products handled at the facility.

Materials List

Raw Materials	Intermediate Products	Final Products
Spring Water / Groundwater		Bottled Spring Water
Chlorine		Bottled Drinking Water
Corrosion Inhibitors		
Line Lubrication Chemicals		
Boiler Chemicals		
Cooling Tower Chemicals		
Disinfectant Chemicals including Biocides		

Attachment: Attachment D

d. Attach a facility map (drawn to scale) with the following information:

- Production areas, maintenance areas, materials-handling areas, waste-disposal areas, and water intake structures.
- The location of each unit of the WWTP including the location of wastewater collection sumps, impoundments, outfalls, and sampling points, if significantly different from outfall locations.

Attachment: Attachment C

e. Is this a new permit application for an existing facility?

☐ Yes ☒ No

If **yes**, provide background discussion: Click to enter text.

f. Is/will the treatment facility/disposal site be located above the 100-year frequency flood level.

☒ Yes ☐ No

List source(s) used to determine 100-year frequency flood plain: FEMA Map- Attachment C

If **no**, provide the elevation of the 100-year frequency flood plain and describe what protective measures are used/proposed to prevent flooding (including tail water and rainfall run-on controls) of the treatment facility and disposal area: Click to enter text.

Attachment: Click to enter text.

g. For **new** or **major amendment** permit applications, will any construction operations result in a discharge of fill material into a water in the state?

☐ Yes ☒ No ☐ N/A (renewal only)

h. If **yes** to Item 1.g, has the applicant applied for a USACE CWA Chapter 404 Dredge and Fill permit?

☐ Yes ☐ No

If **yes**, provide the permit number: Click to enter text.

If **no**, provide an approximate date of application submittal to the USACE: Click to enter text.

Item 2. Treatment System (Instructions, Page 40)

a. List any physical, chemical, or biological treatment process(es) used/proposed to treat wastewater at this facility. Include a description of each treatment process, starting with initial treatment and finishing with the outfall/point of disposal.

The wastewater streams drain via gravity through an oil/water/grit separator to a 12,000 gallon underground tank where wastewater is neutralized to a pH between 6 and 9 SU. Please note that the on-site source water (both spring water and groundwater) have a pH range of 4 to 5 SU. This naturally low pH source water coupled with plant processes results in the need for pH adjustments. The existing constructed wetlands comprise the pos pH adjustment physical and biological treatment processes. The wetlands system is designed as part Subsurface Flow (SSF) and part Free Water Surface Flow (FWS) within the same graded and lined basin. Both SSF and FWS constructed areas contain native wetland plantings. All constructed wetlands and effluent storage impoundments were constructed with HDPE dual liners and leak detection system. Effluent is pumped from the effluent storage impoundment for final discharge via pipeline to Big Sandy Creek (Segment 0514). No changes in Wetlands Operation are proposed as part of this Renewal application.

b. Attach a flow schematic **with a water balance** showing all sources of water and wastewater flow into the facility, wastewater flow into and from each treatment unit, and wastewater flow to each outfall/point of disposal.

Attachment: Attachment C

Item 3. Impoundments (Instructions, Page 40)

Does the facility use or plan to use any wastewater impoundments (e.g., lagoons or ponds?)

☒ Yes ☐ No

If **no**, proceed to Item 4. If **yes**, complete **Item 3.a** for **existing** impoundments and **Items 3.a - 3.e** for **new or proposed** impoundments. **NOTE:** See instructions, Pages 40-42, for additional information on the attachments required by Items 3.a – 3.e.

a. Complete the table with the following information for each existing, new, or proposed impoundment. Attach additional copies of the Impoundment Information table, if needed.

Use Designation: Indicate the use designation for each impoundment as Treatment (**T**), Disposal (**D**), Containment (**C**), or Evaporation (**E**).

Associated Outfall Number: Provide an outfall number if a discharge occurs or will occur.

Liner Type: Indicate the liner type as Compacted clay liner (**C**), In-situ clay liner (**I**), Synthetic/plastic/rubber liner (**S**), or Alternate liner (**A**). **NOTE:** See instructions for further

detail on liner specifications. If an alternate liner (A) is selected, include an attachment that provides a description of the alternate liner and any additional technical information necessary for an evaluation.

Leak Detection System: If any leak detection systems are in place/planned, enter **Y** for yes. Otherwise, enter **N** for no.

Groundwater Monitoring Wells and Data: If groundwater monitoring wells are in place/planned, enter **Y** for yes. Otherwise, enter **N** for no. Attach any existing groundwater monitoring data.

Dimensions: Provide the dimensions, freeboard, surface area, storage capacity of the impoundments, and the maximum depth (not including freeboard). For impoundments with irregular shapes, submit surface area instead of length and width.

Compliance with 40 CFR Part 257, Subpart D: If the impoundment is required to be in compliance with 40 CFR Part 257, Subpart D, enter **Y** for yes. Otherwise, enter **N** for no.

Date of Construction: Enter the date construction of the impoundment commenced (mm/dd/yy).

Impoundment Information

Parameter	**Pond #**	**Pond #**	**Pond #**	**Pond #**
Use Designation: (T) (D) (C) or (E)	T	T	C	
Associated Outfall Number	--	--	001	
Liner Type (C) (I) (S) or (A)	S	S	S	
Alt. Liner Attachment Reference	N/A	N/A	N/A	
Leak Detection System, Y/N	Y	Y	Y	
Groundwater Monitoring Wells, Y/N	Y	Y	Y	
Groundwater Monitoring Data Attachment	E	E	E	
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	Y	Y	Y	
Length (ft)	135	135	300	
Width (ft)	110	110	150	
Max Depth From Water Surface (ft), Not Including Freeboard	2	2	1	
Freeboard (ft)	2	2	2	
Surface Area (acres)	.34	.34	1	
Storage Capacity (gallons)	150,000	150,000	730,000	
40 CFR Part 257, Subpart D, Y/N	N	N	N	
Date of Construction	2008	2008	2008	

Attachment: Click to enter text.

The following information (**Items 3.b – 3.e**) is required only for **new or proposed** impoundments.

b. For new or proposed impoundments, attach any available information on the following items. If attached, check **yes** in the appropriate box. Otherwise, check **no** or **not yet designed**.

1. Liner data

   ☐ Yes ☐ No ☐ Not yet designed

2. Leak detection system or groundwater monitoring data

   ☐ Yes ☐ No ☐ Not yet designed

3. Groundwater impacts

   ☐ Yes ☐ No ☐ Not yet designed

   NOTE: Item b.3 is required if the bottom of the pond is not above the seasonal high-water table in the shallowest water-bearing zone.

Attachment: Click to enter text.

For TLAP applications: Items 3.c – 3.e are **not required**, continue to Item 4.

c. Attach a USGS map or a color copy of original quality and scale which accurately locates and identifies all known water supply wells and monitor wells within ½-mile of the impoundments.

Attachment: Click to enter text.

d. Attach copies of State Water Well Reports (e.g., driller's logs, completion data, etc.), and data on depths to groundwater for all known water supply wells including a description of how the depths to groundwater were obtained.

Attachment: Click to enter text.

e. Attach information pertaining to the groundwater, soils, geology, pond liner, etc. used to assess the potential for migration of wastes from the impoundments or the potential for contamination of groundwater or surface water.

Attachment: Click to enter text.

Item 4. Outfall/Disposal Method Information (Instructions, Page 42)

Complete the following tables to describe the location and wastewater discharge or disposal operations for each outfall for discharge, and for each point of disposal for TLAP operations.

If there are more outfalls/points of disposal at the facility than the spaces provided, copies of pages 6 and/0r numbered accordingly (i.e., page 6a, 6b, etc.) may be used to provide information on the additional outfalls.

For TLAP applications: Indicate the disposal method and each individual irrigation area **I**, evaporation pond **E**, or subsurface drainage system **S** by providing the appropriate letter designation for the disposal method followed by a numerical designation for each disposal area in the space provided for **Outfall** number (e.g. **E1** for evaporation pond 1, **I2** for irrigation area No. 2, etc.).

Outfall Longitude and Latitude

Outfall No.	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)
001	32 40 41.31	95 10 51.9

Outfall Location Description

Outfall No.	Location Description
001	Outfall 001 (end-of-pipe discharge to marsh area of Big Sandy Creek)

Description of Sampling Point(s) (if different from Outfall location)

Outfall No.	Description of sampling point
001	Entrance of wetland cell 1 Sampling for E. Coli
001	Evaporative cell at end of wetland 2 sampling of all parameters

Outfall Flow Information – Permitted and Proposed

Outfall No.	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)
001	0.195	0.271	0.25	0.330	--

Outfall Discharge – Method and Measurement

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
001	Y	N	Flow Meter

Outfall Discharge – Flow Characteristics

Outfall No.	Intermittent Discharge? Y/N	Continuous Discharge? Y/N	Seasonal Discharge? Y/N	Discharge Duration (hrs/day)	Discharge Duration (days/mo)	Discharge Duration (mo/yr)
001	Y	N	N	24	31	12

Outfall Wastestream Contributions

Outfall No. 001

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
RO Reject	0.168	50.9
Cooling Water Blowdown	0.0254	7.696
Boiler Blowdown	0.0018	0.5454
Line / Filler Operations	0.05	0.1515
CIP Lines / Chilled Water Loops / Blow Mold	0.0611	18.515
Hose Stations & Spillage	0.0046	1.3939
Carbon Filtration Systems	0.008	2.42
Micro Filtration Systems	0.0101	3.061

Outfall No. Click to enter text.

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow

Outfall No. Click to enter text.

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow

Attachment: Click to enter text.

Item 5. Blowdown and Once-Through Cooling Water Discharges (Instructions, Page 43)

a. Indicate if the facility currently or proposes to:

☒ Yes ☐ No Use cooling towers that discharge blowdown or other wastestreams

☒ Yes ☐ No Use boilers that discharge blowdown or other wastestreams

☐ Yes ☒ No Discharge once-through cooling water

NOTE: If the facility uses or plans to use cooling towers or once-through cooling water, Item 12 **is required**.

b. If **yes** to any of the above, attach an SDS with the following information for each chemical additive.

- Manufacturers Product Identification Number
- Product use (e.g., biocide, fungicide, corrosion inhibitor, etc.)
- Chemical composition including CASRN for each ingredient
- Classify product as non-persistent, persistent, or bioaccumulative
- Product or active ingredient half-life
- Frequency of product use (e.g., 2 hours/day once every two weeks)
- Product toxicity data specific to fish and aquatic invertebrate organisms
- Concentration of whole product or active ingredient, as appropriate, in wastestream.

In addition to each SDS, attach a summary of the above information for each specific wastestream and the associated chemical additives. Specify which outfalls are affected.

Attachment: **Attachment D**

c. Cooling Towers and Boilers

If the facility currently or proposes to use cooling towers or boilers that discharge blowdown or other wastestreams to the outfall(s), complete the following table.

Cooling Towers and Boilers

Type of Unit	Number of Units	Daily Avg Blowdown (gallons/day)	Daily Max Blowdown (gallons/day)
Cooling Towers	4	25,400	
Boilers	1	1,800	

Item 6. Stormwater Management (Instructions, Page 44)

Will any existing/proposed outfalls discharge stormwater associated with industrial activities, as defined at *40 CFR § 122.26(b)(14)*, commingled with any other wastestream?

☐ Yes ☒ No

If **yes**, briefly describe the industrial processes and activities that occur outdoors or in a manner which may result in exposure of the activities or materials to stormwater: Click to enter text.

Item 7. Domestic Sewage, Sewage Sludge, and Septage Management and Disposal (Instructions, Page 44)

Domestic Sewage - Waste and wastewater from humans or household operations that is discharged to a wastewater collection system or otherwise enters a treatment works.

a. Check the box next to the appropriate method of domestic sewage and domestic sewage sludge treatment or disposal. Complete Worksheet 5.0 or Item 7.b if directed to do so.

☐ Domestic sewage is routed (i.e., connected to or transported to) to a WWTP permitted to receive domestic sewage for treatment, disposal, or both. Complete Item 7.b.

☐ Domestic sewage disposed of by an on-site septic tank and drainfield system. Complete Item 7.b.

☐ Domestic and industrial treatment sludge ARE commingled prior to use or disposal.

☐ Industrial wastewater and domestic sewage are treated separately, and the respective sludge IS NOT commingled prior to sludge use or disposal. Complete Worksheet 5.0.

☐ Facility is a POTW. Complete Worksheet 5.0.

☐ Domestic sewage is not generated on-site.

☒ Other (e.g., portable toilets), specify and Complete Item 7.b: Primo Brands operates an on-site sewage facility (OSSF) permit number 10-25-3250 issued by the Wood County Environmental Health Department on November 13, 2012. The OSSF consists of three 1,500-gallon septic tanks in series whose effluent discharges to a constructed sanitary wetland with leach field drain system. The system was originally permitted by Wood County under permit number 04-19-02-250 and modified in November 2012.

b. Provide the name and TCEQ, NPDES, or TPDES Permit No. of the waste-disposal facility which receives the domestic sewage/septage. If hauled by motorized vehicle, provide the name and TCEQ Registration No. of the hauler.

Domestic Sewage Plant/Hauler Name

Plant/Hauler Name	Permit/Registration No.
AAA Sanitation, Inc. (Tyler, TX)	WQ0004551000 / SWR No. 20253

Item 8. Improvements or Compliance/Enforcement Requirements (Instructions, Page 45)

a. Is the permittee currently required to meet any implementation schedule for compliance or enforcement?

☐ Yes ☒ No

b. Has the permittee completed or planned for any improvements or construction projects?

☐ Yes ☒ No

c. If **yes** to either 8.a **or** 8.b, provide a brief summary of the requirements and a status update: Click to enter text.

Item 9. Toxicity Testing (Instructions, Page 45)

Have any biological tests for acute or chronic toxicity been made on any of the discharges or on a receiving water in relation to the discharge within the last three years?

☐ Yes ☒ No

If **yes**, identify the tests and describe their purposes: Click to enter text.

Additionally, attach a copy of all tests performed which **have not** been submitted to the TCEQ or EPA. **Attachment:** Click to enter text.

Item 10. Off-Site/Third Party Wastes (Instructions, Page 45)

a. Does or will the facility receive wastes from off-site sources for treatment at the facility, disposal on-site via land application, or discharge via a permitted outfall?

☐ Yes ☒ No

If **yes**, provide responses to Items 10.b through 10.d below.

If **no**, proceed to Item 11.

b. Attach the following information to the application:

- List of wastes received (including volumes, characterization, and capability with on-site wastes).
- Identify the sources of wastes received (including the legal name and addresses of the generators).
- Description of the relationship of waste source(s) with the facility's activities.

Attachment: Click to enter text.

c. Is or will wastewater from another TCEQ, NPDES, or TPDES permitted facility commingled with this facility's wastewater after final treatment and prior to discharge via the final outfall/point of disposal?

☐ Yes ☐ No

If **yes**, provide the name, address, and TCEQ, NPDES, or TPDES permit number of the contributing facility and a copy of any agreements or contracts relating to this activity.

Attachment: Click to enter text.

d. Is this facility a POTW that accepts/will accept process wastewater from any SIU and has/is required to have an approved pretreatment program under the NPDES/TPDES program?

☐ Yes ☐ No

If **yes**, **Worksheet 6.0** of this application **is required**.

Item 11. Radioactive Materials (Instructions, Page 46)

a. Are/will radioactive materials be mined, used, stored, or processed at this facility?

☐ Yes ☒ No

If **yes**, use the following table to provide the results of one analysis of the effluent for all radioactive materials that may be present. Provide results in pCi/L.

Radioactive Materials Mined, Used, Stored, or Processed

Radioactive Material Name	Concentration (pCi/L)

b. Does the applicant or anyone at the facility have any knowledge or reason to believe that radioactive materials may be present in the discharge, including naturally occurring radioactive materials in the source waters or on the facility property?

☐ Yes ☒ No

If **yes**, use the following table to provide the results of one analysis of the effluent for all radioactive materials that may be present. Provide results in pCi/L. Do not include information provided in response to Item 11.a.

Radioactive Materials Present in the Discharge

Radioactive Material Name	Concentration (pCi/L)

Item 12. Cooling Water (Instructions, Page 46)

a. Does the facility use or propose to use water for cooling purposes?

☒ Yes ☐ No

If **no**, stop here. If **yes**, complete Items 12.b thru 12.f.

b. Cooling water is/will be obtained from a groundwater source (e.g., on-site well).

☒ Yes ☐ No

If **yes**, stop here. If **no**, continue.

c. Cooling Water Supplier

1. Provide the name of the owner(s) and operator(s) for the CWIS that supplies or will supply water for cooling purposes to the facility.

Cooling Water Intake Structure(s) Owner(s) and Operator(s)

CWIS ID				
Owner				
Operator				

2. Cooling water is/will be obtained from a Public Water Supplier (PWS)

   ☐ Yes ☐ No

   If **no**, continue. If **yes**, provide the PWS Registration No. and stop here: PWS No. Click to enter text.

3. Cooling water is/will be obtained from a reclaimed water source?

   ☐ Yes ☐ No

   If **no**, continue. If **yes**, provide the Reuse Authorization No. and stop here: Click to enter text.

4. Cooling water is/will be obtained from an Independent Supplier

   ☐ Yes ☐ No

   If **no**, proceed to Item 12.d. If **yes**, provide the actual intake flow of the Independent Supplier's CWIS that is/will be used to provide water for cooling purposes and proceed: Click to enter text.

d. 316(b) General Criteria

1. The CWIS(s) used to provide water for cooling purposes to the facility has or will have a cumulative design intake flow of 2 MGD or greater.

   ☐ Yes ☐ No

2. At least 25% of the total water withdrawn by the CWIS is/will be used at the facility exclusively for cooling purposes on an annual average basis.

   ☐ Yes ☐ No

3. The CWIS(s) withdraw(s)/propose(s) to withdraw water for cooling purposes from surface waters that meet the definition of Waters of the United States in *40 CFR § 122.2*.

   ☐ Yes ☐ No

   If **no**, provide an explanation of how the waterbody does not meet the definition of Waters of the United States in *40 CFR § 122.2*: Click to enter text.

If **yes** to all three questions in Item 12.d, the facility **meets** the minimum criteria to be subject to the full requirements of Section 316(b) of the CWA. Proceed to **Item 12.f**.

If **no** to any of the questions in Item 12.d, the facility **does not meet** the minimum criteria to be subject to the full requirements of Section 316(b) of the CWA; however, a determination is required based upon BPJ. Proceed to **Item 12.e**.

e. The facility does not meet the minimum requirements to be subject to the fill requirements of Section 316(b) **and uses**/proposes **to use cooling towers**.

   ☐ Yes ☐ No

   If **yes**, stop here. If **no**, complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ.

f. Oil and Gas Exploration and Production

1. The facility is subject to requirements at 40 CFR Part 435, Subparts A or D.

☐ Yes ☐ No

If **yes**, continue. If **no**, skip to Item 12.g.

2. The facility is an existing facility as defined at 40 CFR § 125.92(k) or a new unit at an existing facility as defined at 40 CFR § 125.92(u).

☐ Yes ☐ No

If **yes**, complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ. If **no**, skip to Item 12.g.3.

g. Compliance Phase and Track Selection

1. Phase I – New facility subject to 40 CFR Part 125, Subpart I

☐ Yes ☐ No

If **yes**, check the box next to the compliance track selection, attach the requested information, and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.

☐ Track I – AIF greater than 2 MGD, but less than 10 MGD

- Attach information required by *40 CFR §§ 125.86(b)(2)-(4)*.

☐ Track I – AIF greater than 10 MGD

- Attach information required by *40 CFR § 125.86(b)*.

☐ Track II

- Attach information required by *40 CFR § 125.86(c)*.

Attachment: Click to enter text.

2. Phase II – Existing facility subject to 40 CFR Part 125, Subpart J

☐ Yes ☐ No

If **yes**, complete Worksheets 11.0 through 11.3, as applicable.

3. Phase III – New facility subject to 40 CFR Part 125, Subpart N

☐ Yes ☐ No

If **yes**, check the box next to the compliance track selection and provide the requested information.

☐ Track I – Fixed facility

- Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.

☐ Track I – Not a fixed facility

- Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Item 2 (except CWIS latitude/longitude under Item 2.a).

☐ Track II – Fixed facility

- Attach information required by 40 CFR § 125.136(c) and complete Worksheet 11.0, Items 2 and 3.

Attachment: Click to enter text.

Item 13. Permit Change Requests (Instructions, Page 48)

This item is only applicable to existing permitted facilities.

a. Is the facility requesting a **major amendment** of an existing permit?

☒ Yes ☐ No

If **yes**, list each request individually and provide the following information: 1) detailed information regarding the scope of each request and 2) a justification for each request. Attach any supplemental information or additional data to support each request.

Request increase in wastewater discharge flow for 2 additional bottling lines. The additional production capacity produces additional wastewater discharge. The maximum and average daily flow request is 0.33 and 0.25 MGD, respectively. The existing permitted Max and Average Daily flow is 0.271 and 0.195 MGD, respectively.

b. Is the facility requesting any **minor amendments** to the permit?

☐ Yes ☒ No

If **yes**, list and describe each change individually.

Click to enter text.

c. Is the facility requesting any **minor modifications** to the permit?

☐ Yes ☒ No

If **yes**, list and describe each change individually.

Click to enter text.

Item 14. Laboratory Accreditation (Instructions, Page 49)

All laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*, which includes the following general exemptions from National Environmental Laboratory Accreditation Program (NELAP) certification requirements:

- The laboratory is an in-house laboratory and is:
  - periodically inspected by the TCEQ; or
  - located in another state and is accredited or inspected by that state; or
  - performing work for another company with a unit located in the same site; or
  - performing pro bono work for a governmental agency or charitable organization.
- The laboratory is accredited under federal law.
- The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review *30 TAC Chapter 25* for specific requirements.

The following certification statement shall be signed and submitted with every application. See the *Signature Page* section in the Instructions, for a list of designated representatives who may sign the certification.

CERTIFICATION:

I certify that all laboratory tests submitted with this application meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.*

Printed Name: Sam Gordon

Title: Vice President, Regional T&P

Signature: _____

Date: _____

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: POLLUTANT ANALYSIS

Worksheet 2.0 **is required** for all applications submitted for a TPDES permit. Worksheet 2.0 is not required for applications for a permit to dispose of all wastewater by land disposal or for discharges solely of stormwater associated with industrial activities.

Item 1. General Testing Requirements (Instructions, Page 55)

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): 3/6/25; 3/13/25; 3/20/25; 3/27/25

b. ☒ Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.

c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. **Attachment:** Attachment E

Item 2. Specific Testing Requirements (Instructions, Page 56)

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. **Attachment:** Attachment E

TABLE 1 and TABLE 2 (Instructions, Page 58)

Completion of Tables 1 and 2 is required for all external outfalls for all TPDES permit applications.

Table 1 for Outfall No.: 001 **Samples are (check one): ☒ Composite ☐ Grab**

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	3.92	4.43	8.28	4.15
CBOD (5-day)	2.27	5.63	5.36	ND
Chemical oxygen demand	ND	ND	ND	ND
Total organic carbon	2.95	3.15	2.42	1.14
Dissolved oxygen	11	11	11	8.8
Ammonia nitrogen	ND	ND	ND	ND
Total suspended solids	2.10	2.5	9.0	ND
Nitrate nitrogen	1.77	0.427	1.12	1.05
Total organic nitrogen	0.251	1.89	0.939	0.404
Total phosphorus	0.367	0.358	0.475	0.217
Oil and grease	ND	ND	ND	ND

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Total residual chlorine	-	-	-	-
Total dissolved solids	88	130	144	100
Sulfate	10.8	14.2	25.9	14.1
Chloride	11.1	16.8	20.9	22.6
Fluoride	ND	ND	ND	ND
Total alkalinity (mg/L as CaCO3)	52.2	47.6	45.3	53.2
Temperature (°F)	60	64	55	69
pH (standard units)	8.0	7.72	7.62	7.38

Table 2 for Outfall No.: 001 **Samples are (check one): ☒ Composite ☐ Grab**

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total	0.0222	0.0317	0.0732	0.0118	2.5
Antimony, total	ND	ND	ND	ND	5
Arsenic, total	ND	ND	ND	ND	0.5
Barium, total	0.0585	0.0962	0.108	0.102	3
Beryllium, total	ND	ND	ND	ND	0.5
Cadmium, total	ND	ND	ND	ND	1
Chromium, total	0.00118	0.00249	ND	ND	3
Chromium, hexavalent	ND	ND	ND	ND	3
Chromium, trivalent	ND	ND	ND	ND	N/A
Copper, total	0.00762	0.00676	0.00941	0.00452	2
Cyanide, available	ND	ND	ND	ND	2/10
Lead, total	ND	ND	ND	ND	0.5
Mercury, total	ND	ND	ND	ND	0.005/0.0005
Nickel, total	0.0014	0.00195	0.003	0.00221	2
Selenium, total	ND	ND	ND	ND	5
Silver, total	ND	ND	ND	ND	0.5
Thallium, total	ND	ND	ND	ND	0.5
Zinc, total	0.0308	0.0281	0.0423	0.0184	5.0

TABLE 3 (Instructions, Page 58)

Completion of Table 3 **is required** for all **external outfalls** which discharge process wastewater.

Partial completion of Table 3 **is required** for all **external outfalls** which discharge non-process wastewater and stormwater associated with industrial activities commingled with other wastestreams (see instructions for additional guidance).

Table 3 for Outfall No.: 001 **Samples are (check one): ☒ Composite ☒ Grab**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile	ND	ND	ND	ND	50
Anthracene	ND	ND	ND	ND	10
Benzene	ND	ND	ND	ND	10
Benzidine	ND	ND	ND	ND	50
Benzo(a)anthracene	ND	ND	ND	ND	5
Benzo(a)pyrene	ND	ND	ND	ND	5
Bis(2-chloroethyl)ether	ND	ND	ND	ND	10
Bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	10
Bromodichloromethane [Dichlorobromomethane]	ND	ND	ND	ND	10
Bromoform	ND	ND	ND	ND	10
Carbon tetrachloride	ND	ND	ND	ND	2
Chlorobenzene	ND	ND	ND	ND	10
Chlorodibromomethane [Dibromochloromethane]	ND	ND	ND	ND	10
Chloroform	ND	ND	ND	ND	10
Chrysene	ND	ND	ND	ND	5
m-Cresol [3-Methylphenol]	ND	ND	ND	ND	10
o-Cresol [2-Methylphenol]	ND	ND	ND	ND	10
p-Cresol [4-Methylphenol]	ND	ND	ND	ND	10
1,2-Dibromoethane	ND	ND	ND	ND	10
m-Dichlorobenzene [1,3-Dichlorobenzene]	ND	ND	ND	ND	10
o-Dichlorobenzene [1,2-Dichlorobenzene]	ND	ND	ND	ND	10
p-Dichlorobenzene [1,4-Dichlorobenzene]	ND	ND	ND	ND	10
3,3'-Dichlorobenzidine	ND	ND	ND	ND	5
1,2-Dichloroethane	<1.0	<1.0	<1.0		10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
1,1-Dichloroethene [1,1-Dichloroethylene]	ND	ND	ND	ND	10
Dichloromethane [Methylene chloride]	ND	ND	ND	ND	20
1,2-Dichloropropane	ND	ND	ND	ND	10
1,3-Dichloropropene [1,3-Dichloropropylene]	ND	ND	ND	ND	10
2,4-Dimethylphenol	ND	ND	ND	ND	10
Di-n-Butyl phthalate	ND	ND	ND	ND	10
Ethylbenzene	ND	ND	ND	ND	10
Fluoride	ND	ND	ND	ND	500
Hexachlorobenzene	ND	ND	ND	ND	5
Hexachlorobutadiene	ND	ND	ND	ND	10
Hexachlorocyclopentadiene	ND	ND	ND	ND	10
Hexachloroethane	ND	ND	ND	ND	20
Methyl ethyl ketone	ND	ND	ND	ND	50
Nitrobenzene	ND	ND	ND	ND	10
N-Nitrosodiethylamine	ND	ND	ND	ND	20
N-Nitroso-di-n-butylamine	ND	ND	ND	ND	20
Nonylphenol	ND	ND	ND	ND	333
Pentachlorobenzene	ND	ND	ND	ND	20
Pentachlorophenol	ND	ND	ND	ND	5
Phenanthrene	ND	ND	ND	ND	10
Polychlorinated biphenyls (PCBs) (**)	ND	ND	ND	ND	0.2
Pyridine	ND	ND	ND	ND	20
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	ND	20
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	10
Tetrachloroethene [Tetrachloroethylene]	ND	ND	ND	ND	10
Toluene	ND	ND	ND	ND	10
1,1,1-Trichloroethane	ND	ND	ND	ND	10
1,1,2-Trichloroethane	ND	ND	ND	ND	10
Trichloroethene [Trichloroethylene]	ND	ND	ND	ND	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
2,4,5-Trichlorophenol	ND	ND	ND	ND	50
TTHM (Total trihalomethanes)	ND	ND	ND	ND	10
Vinyl chloride	ND	ND	ND	ND	10

(*) Indicate units if different from µg/L.

(**) Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, and PCB-1016. If all non-detects, enter the highest non-detect preceded by a "<".

TABLE 4 (Instructions, Pages 58-59)

Partial completion of Table 4 **is required** for each **external outfall** based on the conditions below.

a. **Tributyltin**

Is this facility an industrial/commercial facility which currently or proposes to directly dispose of wastewater from the types of operations listed below or a domestic facility which currently or proposes to receive wastewater from the types of industrial/commercial operations listed below?

☐ Yes ☒ No

If **yes**, check the box next to each of the following criteria which apply and provide the appropriate testing results in Table 4 below (check all that apply).

☐ Manufacturers and formulators of tributyltin or related compounds.

☐ Painting of ships, boats and marine structures.

☐ Ship and boat building and repairing.

☐ Ship and boat cleaning, salvage, wrecking and scaling.

☐ Operation and maintenance of marine cargo handling facilities and marinas.

☐ Facilities engaged in wood preserving.

☐ Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. **Enterococci (discharge to saltwater)**

This facility discharges/proposes to discharge directly into saltwater receiving waters **and** Enterococci bacteria are expected to be present in the discharge based on facility processes.

☐ Yes ☒ No

Domestic wastewater is/will be discharged.

☐ Yes ☒ No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

c. E. coli (discharge to freshwater)

This facility discharges/proposes to discharge directly into freshwater receiving waters **and** *E. coli* bacteria are expected to be present in the discharge based on facility processes.

☐ Yes ☒ No

Domestic wastewater is/will be discharged.

☐ Yes ☒ No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

Table 4 for Outfall No.: 001 **Samples are (check one): ☐ Composite ☒ Grab**

Pollutant	Sample 1	Sample 2	Sample 3	Sample 4	MAL
Tributyltin (µg/L)	N/A	N/A	N/A	N/A	0.010
Enterococci (cfu or MPN/100 mL)	N/A	N/A	N/A	N/A	N/A
E. coli (cfu or MPN/100 mL)	2.0	6.3	9.7	3.1	N/A

TABLE 5 (Instructions, Page 59)

Completion of Table 5 **is required** for all **external outfalls** which discharge process wastewater from a facility which manufactures or formulates pesticides or herbicides or other wastewaters which may contain pesticides or herbicides.

If this facility does not/will not manufacture or formulate pesticides or herbicides and does not/will not discharge other wastewaters that may contain pesticides or herbicides, check N/A.

☒ N/A

Table 5 for Outfall No.: Click to enter text. **Samples are (check one): ☐ Composite ☐ Grab**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

* Indicate units if different from µg/L.

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: RECEIVING WATERS

This worksheet **is required** for all TPDES permit applications.

Item 1. Domestic Drinking Water Supply (Instructions, Page 80)

a. There is a surface water intake for domestic drinking water supply located within 5 (five) miles downstream from the point/proposed point of discharge.

☐ Yes ☒ No

If **no**, stop here and proceed to Item 2. If **yes**, provide the following information:

1. The legal name of the owner of the drinking water supply intake: Click to enter text.
2. The distance and direction from the outfall to the drinking water supply intake: Click to enter text.

b. Locate and identify the intake on the USGS 7.5-minute topographic map provided for Administrative Report 1.0.

☐ Check this box to confirm the above requested information is provided.

Item 2. Discharge Into Tidally Influenced Waters (Instructions, Page 80)

If the discharge is to tidally influenced waters, complete this section. Otherwise, proceed to Item 3.

a. Width of the receiving water at the outfall: Click to enter text. feet

b. Are there oyster reefs in the vicinity of the discharge?

☐ Yes ☐ No

If **yes**, provide the distance and direction from the outfall(s) to the oyster reefs: Click to enter text.

c. Are there sea grasses within the vicinity of the point of discharge?

☐ Yes ☐ No

If **yes**, provide the distance and direction from the outfall(s) to the grasses: Click to enter text.

Item 3. Classified Segment (Instructions, Page 80)

The discharge is/will be directly into (or within 300 feet of) a classified segment.

☒ Yes ☐ No

If **yes**, stop here and do not complete Items 4 and 5 of this worksheet or Worksheet 4.1.

If **no**, complete Items 4 and 5 and Worksheet 4.1 may be required.

Item 4. Description of Immediate Receiving Waters (Instructions, Page 80)

a. Name of the immediate receiving waters: Click to enter text.

b. Check the appropriate description of the immediate receiving waters:

☐ Lake or Pond

- Surface area (acres): Click to enter text.
- Average depth of the entire water body (feet): Click to enter text.
- Average depth of water body within a 500-foot radius of the discharge point (feet): Click to enter text.

☐ Man-Made Channel or Ditch

☐ Stream or Creek

☐ Freshwater Swamp or Marsh

☐ Tidal Stream, Bayou, or Marsh

☐ Open Bay

☐ Other, specify:

If **Man-Made Channel or Ditch** or **Stream or Creek** were selected above, provide responses to Items 4.c – 4.g below:

c. For **existing discharges**, check the description below that best characterizes the area **upstream** of the discharge.

For **new discharges**, check the description below that best characterizes the area **downstream** of the discharge.

☐ Intermittent (dry for at least one week during most years)

☐ Intermittent with Perennial Pools (enduring pools containing habitat to maintain aquatic life uses)

☐ Perennial (normally flowing)

Check the source(s) of the information used to characterize the area upstream (existing discharge) or downstream (new discharge):

☐ USGS flow records

☐ personal observation

☐ historical observation by adjacent landowner(s)

☐ other, specify: Click to enter text.

d. List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point: Click to enter text.

e. The receiving water characteristics change within three miles downstream of the discharge (e.g., natural or man-made dams, ponds, reservoirs, etc.).

☐ Yes ☐ No

If **yes**, describe how: Click to enter text.

f. General observations of the water body during normal dry weather conditions: Click to enter text.

Date and time of observation: Click to enter text.

g. The water body was influenced by stormwater runoff during observations.

☐ Yes ☐ No

If **yes**, describe how: Click to enter text.

Item 5. General Characteristics of Water Body (Instructions, Page 81)

a. Is the receiving water upstream of the existing discharge or proposed discharge site influenced by any of the following (check all that apply):

☐ oil field activities
☐ agricultural runoff
☐ upstream discharges
☐ urban runoff
☐ septic tanks
☐ other, specify: Click to enter text.

b. Uses of water body observed or evidence of such uses (check all that apply):

☐ livestock watering
☐ non-contact recreation
☐ domestic water supply
☐ contact recreation
☐ fishing
☐ industrial water supply
☐ irrigation withdrawal
☐ navigation
☐ picnic/park activities
☐ other, specify: Click to enter text.

c. Description which best describes the aesthetics of the receiving water and the surrounding area (check only one):

☐ **Wilderness:** outstanding natural beauty; usually wooded or un-pastured area: water clarity exceptional

☐ **Natural Area:** trees or native vegetation common; some development evident (from fields, pastures, dwellings); water clarity discolored

☐ **Common Setting:** not offensive, developed but uncluttered; water may be colored or turbid

☐ **Offensive:** stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

MR AND MRS THEODORE HOBMA

140 PR 3801

BIG SANDY TX 75755

BERT DAVIS

P.O. BOX 1432

HAWKINS TX 75765

MICHAEL DAVIS

7212 WINDSWEPT TRL

COLLEYVILLE TX 76034

MR AND MRS VERNON MOORE

2120 CREEKSIDE CIRCLE SOUTH

IRVING TX 78063

MR AND MRS LAWRENCE MOONEY

PO BOX 641

HAWKINS TX 75765

LOVIS RICHEY

4004 FAIRMONT COURT

BEDFORD TX 76021

DEBORAH GRIFFIN

1731 CR 3520

HAWKINS TX 75765

CHRISTIE GEZELLA

532 BRONZEWOOD LN

FORT WORTH TX 76131

MR AND MRS ROYAL CAMPMAN

1100 RIDGE ROAD WEST

ROCKWALL TX 75087

DAREL BELZ

718 BOWIE ST

FORNEY TX 75126

SANDRA MCLAIN

2915 MAYDELLE LANE

FARMERS BRANCH TX 75234

MR AND MRS MICHAEL MAXSON

110 PR 7543

HAWKINS TX 75765

MR AND MRS JOEY MCGEE

302 RCR 3319

EMORY TX 75440

LAGATHA KAY CLEMONS

402 LAZY SPRING

RED OAK TX 75154

VICKIE FULFER

PO BOX 1486

HAWKINS TX 75765

SARAH TODD

PO BOX 24

HAWKINS TX 75765

RAYMOND TODD

PO BOX 24

HAWKINS TX 75765

CARLA AND KELLY JOHNSON AND BRIANNA WILLIAMS

6688 JOHN HICKMAN PARKWAY APT 521

FRISCO TX 75034

MR AND MRS PHILLIP KIRKLIN

973 CR 3540

HAWKINS TX 75765

RICHARD AND CAROL DAVIS

1107 CR 3540

HAWKINS TX 75765

DARRELL W. HOLLEY

326 DEER PATH LANE

HOLLY LAKE RANCH TX 75765

CARRIE ELLIS DIESE

1143 CR 3540

HAWKINS TX 75765

JOHN WEICK

1199 CR 3540

HAWKINS TX 75765

JAVIER DE LA TORRE

1700 BOATHOUSE RD

EDMOND OK 73034

PROXIMA RERRAE LLC

PO BOX 489

HAWKINS TX 75765

CCHB PROPERTIES LLC

PO BOX 489

HAWKINS TX 75765

ANTOINE CAIN

3230 S FM 2869

HAWKINS, TX 75765

SEAN AND KATIE DEVANY

17326 OUTLAW RIDGE RD

HOUSTON TX 77095

ALVARO CORRADA DEL RIO
BISHOP OF THE CATHOLIC DIOCESE OF TYLER
1612 S FM 2869
HOLLY LAKE RANCH TX 75765

CLIFFORD AND PATRICIA BERGEN

170 CR 3542

HAWKINS TX 75765

RAY AND REGINA TRAMMEL
190 CR 3542
HAWKINS TX 75765

ANDY AND SHERRY SPODNICK
220 CR 3542
HAWKINS TX 75765

CINDA OWEN
248 CR 3542
HAWKINS TX 75765

JESSE AND SANDI PURSLOW
463 PR 6624
MINEOLA TX 75773

STEVEN SMITH
270 CR 3542
HAWKINS TX 75765

TIMOTHY AND CONNIE GENTRY
280 CR 3542
HAWKINS TX 75765

GUY SIMSER
290 CR 3542
HAWKINS TX 75765

KENNETH AND TRACY THOMAS
310 CR 3542
HAWKINS TX 75765

MARK MERRITT
314 CR 3542
HAWKINS TX 75765

DAVID AND ANGELA HEFFNER
1561 CR 3540
HAWKINS TX 75765

CHURCH HOLLY BROOK BAPTIST
3219 S FM 2869
HAWKINS TX 75765

MMGL TEXAS II LLC
13727 NOEL RD STE 1200
DALLAS TX 75230

LEONARD AND KATHRYN BOEHM
1743 CR 3540
HAWKINS TX 75765

BOX 379 PROPERTIES LLC
PO BOX 318
HAWKINS TX 75765

BILLY ROBERTSON
1995 CR 3540
HAWKINS TX 75765

MORTON AND SHARON CLARY
2030 CR 3540
HAWKINS TX 75765

WILLIAM BEGGS
222 CR 3540
HAWKINS TX 75765

DONALD R WHISENHUNT
2340 CR 3540
HAWKINS TX 75765

LAPA CHAMPION LLC
3196 CR 3540
HAWKINS TX 75765

KEVIN AND LISA MARTIN
110 PEBBLE COVE
HOLLY LAKE RANCH TX 75765

DAVID MILLER AND CYNTHIA HOUSLEY
1470 HOLLY TRAIL EAST
HOLLY LAKE RANCH TX 75765

WOOD COUNTY TRUSTEE
1517 W FRONT ST STE 202
TYLER TX 75702

BAHRASSA F S AND P K SHROFF LIVING
3404 FURLONG DR EAST
FLOWER MOUND TX 75022

ALTON AND BRENDA BYRD
142 NICKEY LN
RIPLEY MS 38663

BETSY AND WILLIAM CHAPPELL
1560 HOLLY TRAIL EAST
HOLLY LAKE RANCH TX 75765

JAMES AND SANDRA PYLANT
1630 HOLLY TRAIL EAST
HOLLY LAKE RANCH TX 75765

JULIE AND JAMES BRIDGES
1658 HOLLY TRAIL EAST
HOLLY LAKE RANCH TX 75765

JAMES AND BECKIE CLARK
1668 HOLLY TRAIL EAST
HOLLY LAKE RANCH TX 75765

PHAM HAN ST VIR CHI HUYNH
6224 S SH 37
MINEOLA TX 75773

PINEYWOOD BUILDERS INC
3795 S FM 2869
HAWKINS TX 75765

DONALD RAY LEDFORD

284 BRAZOS BEND

HOLLY LAKE RANCH TX 75765

WOOD COUNTY TTEE

PO BOX 1919

QUITMAN TX 75783

RHONDA ROLEN

401 E SOUTH ST

LINDALE TX 75771

KATHRYN AND RONALD GOODMAN

1740 HOLLY TRAIL EAST

HOLLY LAKE RANCH TX 75765

ROBIN AND BERNADETTE TRANHOLT

1762 HOLLY TRAIL EAST

HOLLY LAKE RANCH TX 75765

DEBBIE AND NORMAN HART

1806 HOLLY TRAIL EAST

HOLLY LAKE RANCH TX 75765

RUBEN AND AMY PELINA

960 GROSSMONT AVE

EL CAJON CA 92020

HOLLY LAKE RANK ASSOCIATION

220 HOLLY LODGE CIRCLE

HOLLY LAKE RANCH TX 75765

JUAN TORRES

921 PARK EAST CIRCLE

FARLAND TX 75043

ALBERT AND EDNA CRUZ

300 E CAMILLIA AVE APT #C320

MCALLEN TX 78501

M C CABRERA JR

1540 LIMELIGHT CT

COLORADO SPRINGS CO 80906

ROBERT AND JANICE PLACE

180 SHIPROCK PATH

HOLLY LAKE RANCH TX 75765

ANITA HOOD

184 SHIPROCK PATH

HOLLY LAKE RANCH TX 75765

DAVID AND BELINDA DAVIS

176 SHASTA PATH

HOLLY LAKE RANCH TX 75765

WILLIAM AND CONNIE OATES

184 SHASTA PATH

HOLLY LAKE RANCH TX 75765

PETER TOMONTO

165 SHASTA PATH

HOLLY LAKE RANCH TX 75765

CHANEY CALDWELL AND JOHN WARD

200 SUNDANCE PATH

HOLLY LAKE RANCH TX 75765

ROBERT VELA

1308 ROYSTER RD

FORT WORTH TX 76134

DEREK AND REBECCA THOMPSON

141 SUNDANCE PATH

HOLLY LAKE RANCH TX 75765

ASCENSION RESORTS LTD ORANGE LAKE RESORTS
ATTN FINANCIAL SERVICE GROUP
9271 S JOHN YOUNG PKWY
ORLANDO FL 32819

CORBIN AND NKIRU QUISENBERRY

2910 ALTO DRM

SACHSE TX 75048

LOUIS AND RETHA JONES

4323 HONDURAS ST

LOS ANGELES CA 90011

JAMES WILLIAM PARKER

788 AN CR 2109

ELKHART TX 75839

WOOD COUNTY TRUSTEE

PO BOX 1919

QUITMAN TX 75783

ALBERT AND SHIRLEY PARSONS

434 CIMARRON TRAIL

HAWKINS TX 75765

BROOKS A JR

577 FM 555

GILMER TX 75644

KIMBERLY AND KEVIN MCGARITY

474 CIMARRON TRAIL

HOLLY LAKE RANCH TX 75765

DEMARCKS KING

3752 COTTAGE PARK CIRCLE

TYLER TX 75707

TOMMY AND NATALIE DIXON

556 CIMARRON TRAIL

HOLLY LAKE RANCH TX 75765

RENE AND KATHRYN OUBRE

16345 ANTIETAM AVE

BATON ROUGE LA 70817

MARIO VILLALOBOS

6123 PLANTATION DR

TYLER TX 75703

DANIEL AND ANGELA BARNCORD

618 CIMARRON TRAIL

HAWKINS TX 75765

PFUND JAMES KEMER TRUST

628 CIMARRON TRAIL

HOLLY LAKE RANCH TX 75765

FRANK AND ELISABETH VAN ALLEN

18576 FM 740

FORNEY TX 75126

DANIEL LANEY CHRISTOPHER

684 CIMARRON TRAIL

HOLLY LAKE RANCH TX 75765

GARY AND PATTY STEIN

120 WILDWOOD TRAIL

HOLLY LAKE RANCH TX 75765

WALTER AND GLENDA WHITE

126 WILDWOOD TRAIL

HOLLY LAKE RANCH TX 75765

SARAH CRONE

138 WILDWOOD TRAIL

HOLLY LAKE RANCH TX 75765

MINA AND RICHARD MCCONNIEL

184 WILDWOOD TRAIL

HOLLY LAKE RANCH TX 75765

BETSY AND WILLIAM CHAPPELL

2868 CR 3550

HOLLY LAKE RANCH TX 75765

ALBERT AND PATRICIA BERGH

3300 CR 3550

HOLLY LAKE RANCH TX 75765

JAMES WADE

2193 S MIMOSA RD

BIG SANDY TX 75755

RICKEY SHIPP

4441 FM 1002 S.

BIG SANDY TX 75755

AUDIS AND DEBORAH BYRD

834 WHITE DOGWOOD RD

BIG SANDY TX 75755

JAMES AND SUSAN BYRD, CO TRUSTEES

110 ROLLING SPRING DRIVE

ALEDO TX 76008

JOE & JUDY BYRD PROPERTIES LLC

110 ROLLING SPRING DRIVE

ALEDO TX 76008

TERRY HARTMAN

3617 WANDERING TRAIL

PLANO TX 78075

RENE AND KATHRYN OUBRE

16345 ANTIETAM AVE

BATON ROUGE LA 70817

Brooke T. Paup, *Chairwoman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 4, 2025

Re: Confirmation of Submission of the Major Amendment with Renewal for Industrial Wastewater Authorization.

Dear Applicant:

This is an acknowledgement that you have successfully completed Major Amendment with Renewal for the Industrial Wastewater authorization.

ER Account Number: ER039381
Application Reference Number: 787418
Authorization Number: WQ0004812000
Site Name: Nestle Waters North America Wood County Bottling Plant
Regulated Entity: RN102935301 - Nestle Waters North America Hawkins
Customer(s): CN601458458 - Bluetriton Brands, Inc.

Please be aware that TCEQ staff may contact your designated contact for any additional information.

If you have any questions, you may contact the Applications Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by telephone at (512) 239-4671.

Sincerely,
Applications Review and Processing Team
Water Quality Division

Texas Commission on Environmental Quality

Update Domestic or Industrial Individual Permit

WQ0004812000

Site Information (Regulated Entity)

What is the name of the site to be authorized?	NESTLE WATERS NORTH AMERICA WOOD COUNTY BOTTLING PLANT
Does the site have a physical address?	Yes
Physical Address	
Number and Street	3265 S FM 2869
City	HAWKINS
State	TX
ZIP	75765
County	WOOD
Latitude (N) (##.######)	32.666111
Longitude (W) (-###.######)	-95.191666
Primary SIC Code	5149
Secondary SIC Code	
Primary NAICS Code	424490
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN102935301
What is the name of the Regulated Entity (RE)?	NESTLE WATERS NORTH AMERICA HAWKINS
Does the RE site have a physical address?	No
Physical Address	
Because there is no physical address, describe how to locate this site:	1548 COUNTY ROAD 3540 HAWKINS TX 75785 APPROX 5 MI NE OF HAWKINS IN WOOD COUNTY TX
City	HAWKINS
State	TX
ZIP	75765
County	WOOD
Latitude (N) (##.######)	32.66667
Longitude (W) (-###.######)	-95.20833
Facility NAICS Code	

What is the primary business of this entity?	BOTTLING WATER

BlueTri-Customer (Applicant) Information (Owner)

How is this applicant associated with this site?	Owner
What is the applicant's Customer Number (CN)?	CN601458458
Type of Customer	Corporation
Full legal name of the applicant:	
Legal Name	BlueTriton Brands, Inc.
Texas SOS Filing Number	9869406
Federal Tax ID	943027237
State Franchise Tax ID	19430272377
State Sales Tax ID	
Local Tax ID	
DUNS Number	101336568
Number of Employees	501+
Independently Owned and Operated?	Yes
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	
Organization Name	BlueTriton Brands, Inc.
Prefix	MR
First	Sam
Middle	
Last	Gordon
Suffix	
Credentials	
Title	VICE PRESIDENT REGIONAL T&P
Responsible Authority Mailing Address	
Enter new address or copy one from list:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	900 LONG RIDGE RD BLDG 2
Routing (such as Mail Code, Dept., or Attn:)	
City	STAMFORD
State	CT
ZIP	06902
Phone (###-###-####)	9037697750

Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	samueljohn.gordon@primobrands.con

Billing Contact

Responsible contact for receiving billing statements:	
Select the permittee that is responsible for payment of the annual fee.	CN601458458, BlueTriton Brands, Inc.
Organization Name	Primo Brands INC
Prefix	MR
First	Brandon
Middle	
Last	Holland
Suffix	
Credentials	
Title	Managing Utility/Facility/Water Proces/Control
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3265 S FM 2869
Routing (such as Mail Code, Dept., or Attn:)	
City	HAWKINS
State	TX
ZIP	75765
Phone (###-###-####)	9037697700
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	9037692964
E-mail	Brandon.holland@primobrands.com

Application Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	
Organization Name	Apex Companies LLC
Prefix	MS

First	Margaret
Middle	
Last	Schell
Suffix	
Credentials	
Title	Project Manager
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	12501 HYMEADOW DR
Routing (such as Mail Code, Dept., or Attn:)	Ste 1G
City	AUSTIN
State	TX
ZIP	78750
Phone (###-###-####)	5125038495
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	margaret.schell@apexcos.com

Technical Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	
Organization Name	APEX COMPANIES LLC
Prefix	MR
First	Amelia
Middle	
Last	Jordan
Suffix	
Credentials	
Title	SENIOR PROJECT ENGINEER
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	6666 S SHERIDAN RD
Routing (such as Mail Code, Dept., or Attn:)	Ste 250

City	TULSA
State	OK
ZIP	74133
Phone (###-###-####)	9183955904
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	Amelia.Jordan@APEXCOS.COM

DMR Contact

Person responsible for submitting Discharge Monitoring Report Forms:	
Same as another contact?	Billing Contact
Organization Name	Primo Brands INC
Prefix	MR
First	Brandon
Middle	
Last	Holland
Suffix	
Credentials	
Title	Managing Utility/Facility/Water Process/Controls
Enter new address or copy one from list:	
Mailing Address:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3265 S FM 2869
Routing (such as Mail Code, Dept., or Attn:)	
City	HAWKINS
State	TX
ZIP	75765
Phone (###-###-####)	9037077350
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	Brandon.holland@primobrands.com

Section 1# Permit Contact

Permit Contact#: 1

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	Billing Contact
2) Organization Name	Primo Brands INC
3) Prefix	MR
4) First	Brandon
5) Middle	
6) Last	Holland
7) Suffix	
8) Credentials	
9) Title	Managing Utility/Facility/Water Process/Controls

Mailing Address

10) Enter new address or copy one from list	
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	3265 S FM 2869
11.2) Routing (such as Mail Code, Dept., or Attn:)	
11.3) City	HAWKINS
11.4) State	TX
11.5) ZIP	75765
12) Phone (###-###-####)	9037077350
13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	
16) E-mail	Brandon.Holland@primobrands.com

Section 2# Permit Contact

Permit Contact#: 2

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	Application Contact
2) Organization Name	Apex Companies LLC
3) Prefix	MS
4) First	Margaret
5) Middle	
6) Last	Schell
7) Suffix	

8) Credentials	
9) Title	Project Manager
Mailing Address	
10) Enter new address or copy one from list	
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	12501 HYMEADOW DR
11.2) Routing (such as Mail Code, Dept., or Attn:)	Ste 1G
11.3) City	AUSTIN
11.4) State	TX
11.5) ZIP	78750
12) Phone (###-###-####)	5125038495
13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	
16) E-mail	margaret.schell@apexcos.com

Owner Information

Owner of Treatment Facility	
1) Prefix	
2) First and Last Name	Sam Gordon
3) Organization Name	Primo Brands Inc
4) Mailing Address	900 Longridge Road Building 2
5) City	Stamford
6) State	CT
7) Zip Code	06902
8) Phone (###-###-####)	9037697750
9) Extension	
10) Email	Samueljohn.gordon@primobrands.com
11) What is ownership of the treatment facility?	Private
Owner of Land (where treatment facility is or will be)	
12) Prefix	
13) First and Last Name	Sam Gordon
14) Organization Name	BlueTriton Brands Inc
15) Mailing Address	900 Longridge Road Building 2
16) City	Stamford
17) State	CT

18) Zip Code	06902
19) Phone (###-###-####)	9037697750
20) Extension	
21) Email	Samueljohn.gordon@primobrands.com
22) Is the landowner the same person as the facility owner or co-applicant?	Yes

General Information Renewal-Amendment

1) Current authorization expiration date:	06/28/2026
2) Current Facility operational status:	Active
3) Is the facility located on or does the treated effluent cross American Indian Land?	No
4) What is the application type that you are seeking?	Major Amendment with Renewal
4.1) Describe the proposed changes:	Request increase in wastewater discharge flow for 2 additional bottling lines. The additional production capacity produces additional wastewater discharge. The maximum and average daily flow request is 0.33 and 0.25 MGD, respectively. The existing permitted Max and Average Daily flow is 0.271 and 0.195 MGD, respectively.
5) Current Authorization type:	Industrial Wastewater
5.1) What is your EPA facility classification?	Minor
5.1.1) Are the discharges at your facility subjected to federal effluent limitation guidelines (ELG) 40 CFR Part 400-471?	No
5.1.1.1) Select the applicable fee for the Minor facility that is not subjected to 40 CFR 400-471:	Major Amendment - $350
6) What is the classification for your authorization?	TPDES
6.1) What is the EPA Identification Number?	TX0129186
6.2) Is the wastewater treatment facility location in the existing permit accurate?	Yes
6.3) Are the point(s) of discharge and the discharge route(s) in the existing permit correct?	Yes
6.4) City nearest the outfall(s):	Hawkins
6.5) County where the outfalls are located:	WOOD
6.6) Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?	No
6.7) Is the daily average discharge at your facility of 5 MGD or more?	No
7) Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?	No

Public Notice Information

Individual Publishing the Notices

1) Prefix	
2) First and Last Name	Margaret Schell
3) Credential	
4) Title	Project Manager
5) Organization Name	Apex Companies LLC
6) Mailing Address	12501 HYMEADOW DR STE 1G
7) Address Line 2	
8) City	AUSTIN
9) State	TX
10) Zip Code	78750
11) Phone (###-###-####)	5125038495
12) Extension	
13) Fax (###-###-####)	
14) Email	margaret.schell@apexcos.com
Contact person to be listed in the Notices	
15) Prefix	
16) First and Last Name	Brandon Holland
17) Credential	
18) Title	Managing Utility/Facility/Water Process/Controls
19) Organization Name	Primo Brands Inc
20) Phone (###-###-####)	9037077350
21) Fax (###-###-####)	
22) Email	Brandon.holland@primobrands.com
Bilingual Notice Requirements	
23) Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?	No

Section 1# Public Viewing Information

County#: 1

1) County	WOOD
2) Public building name	Wood County Courthouse
3) Location within the building	Clerks Office
4) Physical Address of Building	100 Main Street
5) City	Quitman
6) Contact Name	Kelley Price
7) Phone (###-###-####)	9037632711

8) Extension	
9) Is the location open to the public?	Yes

Plain Language

1) Plain Language	
[File Properties]	
File Name	LANG_Primo Brands TPDES Plain Language.pdf
Hash	7528F7BCF309246A35A502FB7D66325B65FB66EF157F75653AE8DB52A7B039C5
MIME-Type	application/pdf

Supplemental Permit Information Form

1) Supplemental Permit Information Form (SPIF)	
[File Properties]	
File Name	SPIF_Primo Brands SPIF.pdf
Hash	41A55B64DD9F77E73A6B3D57E5E583419E6967462F92260566582511468CE4CA
MIME-Type	application/pdf

Industrial Attachments

1) Attach an 8.5"x11", reproduced portion of the most current and original USGS Topographic Quadrangle Map(s) that meets the 1:24,000 scale.	
[File Properties]	
File Name	MAP_Topographic Map - 2025.pdf
Hash	A5CCE87B81EAF1E8AC2870F669D97AB29B4243E5C0D70ECB36E53023985D8D2B
MIME-Type	application/pdf
2) Public Involvement Plan (TCEQ Form 20960)	
[File Properties]	
File Name	PIP_PIP.pdf
Hash	035797AC328CE41041007361CFCF62BBB4F9431AB45BAE0491BC3EC94E388FFE
MIME-Type	application/pdf
3) Administrative Report 1.1	
[File Properties]	

File Name	ARPT_Primo Brands Administrative Report (10411).pdf
Hash	3485E02DBF5272959E6A7E85BD3A6749E32096D9A0D01E36CECDB1C28D408CA1
MIME-Type	application/pdf

4) I confirm that all required sections of Technical Report 1.0 are complete and will be included in the Technical Attachment.	Yes
4.1) I confirm that Worksheet 2.0 (Pollutant Analyses Requirements) is complete and included in the Technical Attachment.	Yes
4.2) I confirm that Worksheet 4.0 (Receiving Waters) is complete and included in the Technical Attachment.	Yes
4.3) Are you planning to include Worksheet 4.1 (Waterbody Physical Characteristics) in the Technical Attachment?	Yes
4.4) Are you planning to include Worksheet 6.0 (Industrial Waste Contribution) in the Technical Attachment?	No
4.5) Are you planning to include Worksheet 7.0 (Stormwater Discharges Associated with Industrial Activities) to the Technical Attachment?	No
4.6) Are you planning to include Worksheet 8.0 (Aquaculture) in the Technical Attachment?	No
4.7) Are you planning to include Worksheet 9.0 (Class V Injection Well Inventory/Authorization) in the Technical Attachment?	No
4.8) Are you planning to include Worksheet 10.0 (Quarries in the John Graves Scenic Riverway) in the Technical Attachment?	No
4.9) Are you planning to include Worksheet 11.0 (Cooling Water System Information) in the Technical Attachment?	No
4.10) Are you planning to include Worksheet 11.1 (Impingement Mortality) in the Technical Attachment?	No
4.11) Are you planning to include Worksheet 11.2 (Source Water Biological Data) in the Technical Attachment?	No
4.12) Are you planning to include Worksheet 11.3 (Entrainment) in the Technical Attachment?	No
4.13) Technical Attachment	
[File Properties]	
File Name	TECH_Primo Brands Technical Report 1.0.pdf
Hash	0D719B842BA9D1523991E5970159065D1573684C4FA310BD263643E2120A2E21
MIME-Type	application/pdf

5) Affected Landowners Map	
[File Properties]	
File Name	LANDMP_Adjacent Landowner Map - 2025-ID.pdf
Hash	A2E6B160412B9F5579C7B5026C20391B506021A51D7CDC65E54F14E25A9AAA82
MIME-Type	application/pdf

6) Landowners Cross Reference List

[File Properties]

File Name	LANDCRL_Landowner Information.pdf
Hash	072B42F0E1B77CAAC58693B57EBD9D0FA2B4218A33FC8E77E8BEBBAA271EBFDD
MIME-Type	application/pdf

7) Landowner Avery Template

[File Properties]

File Name	LANDAT_Hawkins Address labels.pdf
Hash	DBBB3AA619746126016B9FB5940DEF44D18DD8E1417EBCDE143A97B3B45FD726
MIME-Type	application/pdf

8) Flow Diagram

[File Properties]

File Name	FLDIA_Wastewater Source Diagram 2025.pdf
Hash	786D6DBC5E5CDD721358D4EA44E52D769068D3234E033082E253670F8AFEDA3D
MIME-Type	application/pdf

9) Site Drawing

[File Properties]

File Name	SITEDR_Site Overview Map-2025.pdf
Hash	0069DB868FF6B70967A81794A308CF9540087A0CEE2DFA82EBC817963F24B105
MIME-Type	application/pdf

10) Original Photographs

[File Properties]

File Name	ORIGPH_Hawkins Photos.pdf
Hash	7B170AF69E8D688AF32DAC38CF8C23810B06503C8F08668D1AF945BD87BEAC4F
MIME-Type	application/pdf

11) Design Calculations

[File Properties]

File Name	DES_CAL_Design Calculations.pdf
Hash	E93CD9E99579DE786A6D5AA3BD7665D7BE727F55542E5FB4086C58E375C7169E
MIME-Type	application/pdf

12) Solids Management Plan

13) Water Balance

[File Properties]

File Name	WB_Water Source Diagram Rev-2025.pdf
Hash	B48D2D32173EF99CCDA1C532BD5AC76D122A6B0AC68CD3D763231218898EA000
MIME-Type	application/pdf

14) Other Attachments

[File Properties]

File Name	OTHER_Hawkins-Other Attachments.pdf
Hash	74EBDF6F6321AF627E5D32AAA6176A50C121682B2070763C2E607B0DBE27EE69
MIME-Type	application/pdf

Certification

I certify that I am authorized under 30 Texas Administrative Code 305.44 to sign this document and can provide documentation in proof of such authorization upon request.

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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

1. I am Samuel Gordon, the owner of the STEERS account ER114147.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Update Domestic or Industrial Individual Permit WQ0004812000.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER Signature: Samuel Gordon OWNER

Customer Number:	CN601458458
Legal Name:	BlueTriton Brands, Inc.
Account Number:	ER114147
Signature IP Address:	165.1.176.27
Signature Date:	2025-06-04
Signature Hash:	CFF50A039050010FE43C16FD00A82DDF1E036F5F96E44409D55B6923C64CAB08
Form Hash Code at time of Signature:	223E9BC21B8D60F3BED9BECDDDA18BD7419AEDE9CD21F84A7546941D823AB150

Fee Payment

Transaction by:	The application fee payment transaction was made by ER039381/Margaret L Schell
Paid by:	The application fee was paid by KELLY WELLS
Fee Amount:	$300.00
Paid Date:	The application fee was paid on 2025-06-04
Transaction/Voucher number:	The transaction number is 582EA000670901 and the voucher number is 769437

Submission

Reference Number:	The application reference number is 787418
Submitted by:	The application was submitted by ER039381/Margaret L Schell
Submitted Timestamp:	The application was submitted on 2025-06-04 at 08:48:37 CDT
Submitted From:	The application was submitted from IP address 195.252.237.72
Confirmation Number:	The confirmation number is 656875
Steers Version:	The STEERS version is 6.91
Permit Number:	The permit number is WQ0004812000

Additional Information

Application Creator: This account was created by Margaret L Schell

ADMINISTRATIVE REPORT

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the industrial wastewater permit application.

APPLICANT NAME: BlueTriton Brands, Inc.

PERMIT NUMBER (If new, leave blank): WQ0004812000

Indicate if each of the following items is included in your application.

	Y	N		Y	N
Administrative Report 1.0	☒	☐	Worksheet 8.0	☐	☒
Administrative Report 1.1	☒	☐	Worksheet 9.0	☐	☒
SPIF	☒	☐	Worksheet 10.0	☐	☒
Core Data Form	☒	☐	Worksheet 11.0	☐	☒
Public Involvement Plan Form	☒	☐	Worksheet 11.1	☐	☒
Plain Language Summary	☒	☐	Worksheet 11.2	☐	☒
Technical Report 1.0	☒	☐	Worksheet 11.3	☐	☒
Worksheet 1.0	☐	☒	Original USGS Map	☒	☐
Worksheet 2.0	☒	☐	Affected Landowners Map	☒	☐
Worksheet 3.0	☐	☒	Landowner Disk or Labels	☒	☐
Worksheet 3.1	☐	☒	Flow Diagram	☒	☐
Worksheet 3.2	☐	☒	Site Drawing	☒	☐
Worksheet 3.3	☐	☒	Original Photographs	☒	☐
Worksheet 4.0	☒	☐	Design Calculations	☐	☒
Worksheet 4.1	☐	☒	Solids Management Plan	☐	☒
Worksheet 5.0	☐	☒	Water Balance	☒	☐
Worksheet 6.0	☐	☒			
Worksheet 7.0	☐	☒			

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

This report is required for all applications for TPDES permits and TLAPs, except applications for oil and gas extraction operations subject to 40 CFR Part 435. Contact the Applications Review and Processing Team at 512-239-4671 with any questions about completing this report.

Applications for oil and gas extraction operations subject to 40 CFR Part 435 must use the Oil and Gas Exploration and Production Administrative Report (TCEQ Form-20893 and 20893-inst[1]).

Item 1. Application Information and Fees (Instructions, Page 26)

a. Complete each field with the requested information, if applicable.

Applicant Name: BlueTriton Brands, Inc.

Permit No.: WQ0004812000

EPA ID No.: TX0129186

Expiration Date: June 28, 2026

b. Check the box next to the appropriate authorization type.

☒ Industrial Wastewater (wastewater and stormwater)

☐ Industrial Stormwater (stormwater only)

c. Check the box next to the appropriate facility status.

☒ Active ☐ Inactive

d. Check the box next to the appropriate permit type.

☒ TPDES Permit ☐ TLAP ☐ TPDES with TLAP component

e. Check the box next to the appropriate application type.

☐ New

☐ Renewal with changes ☐ Renewal without changes

☒ Major amendment with renewal ☐ Major amendment without renewal

☐ Minor amendment without renewal

☐ Minor modification without renewal

f. If applying for an amendment or modification, describe the request: Request increase in wastewater discharge flow for 2 additional bottling lines. This additional production results in an increase in resulting wastewater volumes. The maximum daily flow increase to 0.33MGD from 0.271MGD. The Max Daily Avg Flow increase to 0.25MGD from 0.195 MGD.

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

[1] https://www.tceq.texas.gov/publications/search_forms.html

g. Application Fee

EPA Classification	New	Major Amend. (with or without renewal)	Renewal (with or without changes)	Minor Amend. / Minor Mod. (without renewal)
Minor facility not subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	☐ $350	☒ $350	☐ $315	☐ $150
Minor facility subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	☐ $1,250	☐ $1,250	☐ $1,215	☐ $150
Major facility	N/A [2]	☐ $2,050	☐ $2,015	☐ $450

h. Payment Information

Mailed

Check or money order No.: Click to enter text.

Check or money order amt.: Click to enter text.

Named printed on check or money order: Click to enter text.

Epay

Voucher number: Click to enter text.

Copy of voucher attachment: Click to enter text.

Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: CN601458458

Note: Locate the customer number using the TCEQ's Central Registry Customer Search[3].

b. Legal name of the entity (applicant) applying for this permit: Primo Brands

Note: The owner of the facility must apply for the permit. The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.

c. Name and title of the person signing the application. (**Note:** The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)

Prefix: Mr Full Name (Last/First Name): Sam Gordon

Title: Vice President, Regional T&P Credential: Click to enter text.

d. Will the applicant have overall financial responsibility for the facility?

☒ Yes ☐ No

[2] All facilities are designated as minors until formally classified as a major by EPA.

[3] https://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch

Note: The entity with overall financial responsibility for the facility must apply as a co-applicant, if not the facility owner.

Item 3. Co-applicant Information (Instructions, Page 27)

☒ Check this box if there is no co-applicant.; otherwise, complete the below questions.

a. Legal name of the entity (co-applicant) applying for this permit: Click to enter text.

Note: The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.

b. Customer Number (if applicant is an existing customer): CNClick to enter text.

Note: Locate the customer number using the TCEQ's Central Registry Customer Search.

c. Name and title of the person signing the application. (**Note:** The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)

Prefix: Mr Full Name (Last/First Name): Click to enter text.

Title: Click to enter text. Credential: Click to enter text.

d. Will the co-applicant have overall financial responsibility for the facility?

☐ Yes ☐ No

Note: The entity with overall financial responsibility for the facility must apply as a co-applicant, if not the facility owner.

Item 4. Core Data Form (Instructions, Pages 27)

a. Complete one Core Data Form (TCEQ Form 10400) for each customer (applicant and co-applicant(s)) and include as an attachment. If the customer type selected on the Core Data Form is Individual, complete Attachment 1 of the Administrative Report. Attachment: Attachment B

Item 5. Application Contact Information (Instructions, Page 27)

Provide names of two individuals who can be contact for additional information about this application. Indicate if the individual can be contact about administrative or technical information, or both.

a. ☒ Administrative Contact . ☐ Technical Contact

Prefix: Ms Full Name (Last/First Name): Margaret Schell

Title: Project Manager Credential: Click to enter text.

b. Organization Name: Apex Companies LLC

Mailing Address: 12501 Hymeadow Drive, Suite 1G City/State/Zip: Austin, TX 78750

c. Phone No: 512-503-8495 Email: margaret.schell@apexcos.com

d. ☐ Administrative Contact ☒ Technical Contact

Prefix: Ms Full Name (Last/First Name): Amelia Jordan

Title: Senior Project Engineer Credential: Click to enter text.

Organization Name: Apex Companies, LLC

Mailing Address: 6666S Sheridan Rd, Ste 250 City/State/Zip: Tulsa, OK 74133

Phone No: 918-395-5904 Email: Amelia.Jordan@apexcos.com

Attachment: Click to enter text.

Item 6. Permit Contact Information (Instructions, Page 28)

Provide two names of individuals that can be contacted throughout the permit term.

a. Prefix: Mr Full Name (Last/First Name): Brandon Holland

Title: Managing Utility/Facility/Water Process/Controls Credential: Click to enter text.

Organization Name: Primo Brands

Mailing Address: 3265 S FM 2869 City/State/Zip: Hawkins, TX 75765

Phone No: 903-707-7350 Email: Brandon.Holland@primobrands.com

b. Prefix: Ms Full Name (Last/First Name): Amelia Jordan

Title: Senior Project Engineer Credential: Click to enter text.

Organization Name: Apex Companies, LLC

Mailing Address: 6666 S Sheridan Rd Ste 250 City/State/Zip: Tulsa, OK 74133

Phone No: 918-395-5913 Email: Amelia.jordan@apexcos.com

Attachment: Click to enter text.

Item 7. Billing Contact Information (Instructions, Page 28)

The permittee is responsible for paying the annual fee. The annual fee will be assessed for permits **in effect on September 1 of each year**. The TCEQ will send a bill to the address provided in this section. The permittee is responsible for terminating the permit when it is no longer needed (form TCEQ-20029).

Provide the complete mailing address where the annual fee invoice should be mailed and the name and phone number of the permittee's representative responsible for payment of the invoice.

Prefix: Mr Full Name (Last/First Name): Brandon Holland

Title: Managing Utility/Facility/Water Process/Controls Credential: Click to enter text.

Organization Name: Primo Brands

Mailing Address: 3265 S FM 2869 City/State/Zip: Hawkins, TX 78765

Phone No: 903-707-7350 Email: brandon.holland@primobrands.com

Item 8. DMR/MER Contact Information (Instructions, Page 28)

Provide the name and mailing address of the person delegated to receive and submit DMRs or MERs. **Note:** DMR data must be submitted through the NetDMR system. An electronic reporting account can be established once the facility has obtained the permit number.

Prefix: Mr Full Name (Last/First Name): Brandon Holland

Title: Managing Utility/Facility/Water Process/Controls Credential: Click to enter text.

Organization Name: Primo Brands

Mailing Address: 3265 S FM 2869 City/State/Zip: Hawkins, TX 78765

Phone No: 903-707-7350 Email: Brandon.Holland@primobrands.com

Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

Prefix: Ms Full Name (Last/First Name): Margaret Schell

Title: Project Manager Credential: Click to enter text.

Organization Name: Apex Companies LLC

Mailing Address: 12501 Hymeadow Dr Ste 1G City/State/Zip: Austin, TX 78750

Phone No: 512-503-8495 Email: Margaret.schell@apexcos.com

b. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package (only for NORI, NAPD will be sent via regular mail)

☒ E-mail: Margaret.schell@apexcos.com

☐ Fax: Click to enter text.

☒ Regular Mail (USPS)

Mailing Address: 12501 Hymeadow Dt, Ste 1G

City/State/Zip Code: Austin, TX 78750

c. Contact in the Notice

Prefix: Mr Full Name (Last/First Name): Brandon Holland

Title: Managing Utility/Facility/Water Process/Controls Credential: Click to enter text.

Organization Name: Primo Brands

Phone No: 903-707-7350 Email: Brandon.holland@primobrands.com

d. Public Viewing Location Information

Note: If the facility or outfall is located in more than one county, provide a public viewing place for each county.

Public building name: Wood County Courthouse Location within the building: Clerk's Office

Physical Address of Building: 100 Main Street

City: Quitman County: Wood

e. Bilingual Notice Requirements

This information is required for new, major amendment, minor amendment or minor modification, and renewal applications.

This section of the application is only used to determine if alternative language notices will be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.

Call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine if an alternative language notice(s) is required.

1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?

☐ Yes ☒ No

If no, publication of an alternative language notice is not required; skip to Item 8 (Regulated Entity and Permitted Site Information.)

2. Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?

   ☐ Yes ☒ No

3. Do the students at these schools attend a bilingual education program at another location?

   ☐ Yes ☒ No

4. Would the school be required to provide a bilingual education program, but the school has waived out of this requirement under 19 TAC §89.1205(g)?

   ☐ Yes ☒ No ☐ N/A

5. If the answer is yes to question 1, 2, 3, or 4, public notices in an alternative language are required. Which language is required by the bilingual program? N/A

f. Plain Language Summary Template – Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment. Attachment: Attachment E

g. Complete one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each application for a new permit or major amendment and include as an attachment. Attachment: Attachment E

Item 10. Regulated Entity and Permitted Site Information (Instructions Page 29)

a. TCEQ issued Regulated Entity Number (RN), if available: RN12935301
Note: If your business site is part of a larger business site, a Regulated Entity Number (RN) may already be assigned for the larger site. Use the RN assigned for the larger site. Search the TCEQ's Central Registry to determine the RN or to see if the larger site may already be registered as a Regulated Entity. If the site is found, provide the assigned RN.

b. Name of project or site (the name known by the community where located): Nestle Waters North America Wood County Bottling Plant

c. Is the location address of the facility in the existing permit the same?

   ☒ Yes ☐ No ☐ N/A (new permit)

   Note: If the facility is located in Bexar, Comal, Hays, Kinney, Medina, Travis, Uvalde, or Williamson County, additional information concerning protection of the Edwards Aquifer may be required.

d. Owner of treatment facility:

   Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.

   or Organization Name: Primo Brands

   Mailing Address: 3265 S FM 2869 City/State/Zip: Hawkins, TX 75765

   Phone No: 903-769-7750 Email: Samueljohn.gordon@primobrands.com

e. Ownership of facility: ☐ Public ☒ Private ☐ Both ☐ Federal

f. Owner of land where treatment facility is or will be: Primo Brands

Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.

or Organization Name: Primo Brands

Mailing Address: 3265 S FM 2869 City/State/Zip: Hawkins, TX 75765

Phone No: 903-769-7750 Email: Samueljohn.gordon@primobrands.com

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years (In some cases, a lease may not suffice - see instructions). Attachment: Click to enter text.

g. Owner of effluent TLAP disposal site (if applicable): Click to enter text.

Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.

or Organization Name: Click to enter text.

Mailing Address: Click to enter text. City/State/Zip: Click to enter text.

Phone No: Click to enter text. Email: Click to enter text.

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: Click to enter text.

h. Owner of sewage sludge disposal site (if applicable):

Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.

or Organization Name: Click to enter text.

Mailing Address: Click to enter text. City/State/Zip: Click to enter text.

Phone No: Click to enter text. Email: Click to enter text.

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: Click to enter text.

Item 11. TDPES Discharge/TLAP Disposal Information (Instructions, Page 31)

a. Is the facility located on or does the treated effluent cross Native American Land?

☐ Yes ☒ No

b. Attach an original full size USGS Topographic Map (or an 8.5"×11" reproduced portion for renewal or amendment applications) with all required information. Check the box next to each item below to confirm it has been included on the map.

☒ One-mile radius

☒ Applicant's property boundaries

☒ Labeled point(s) of discharge

☐ Effluent disposal site boundaries

☐ Sewage sludge disposal site

☒ Three-miles downstream information

☒ Treatment facility boundaries

☒ Highlighted discharge route(s)

☒ All wastewater ponds

☐ New and future construction

Attachment: Attachment C

c. Is the location of the sewage sludge disposal site in the existing permit accurate?

☐ Yes ☐ No or New Permit

If no, or a new application, provide an accurate location description: Click to enter text.

d. Are the point(s) of discharge in the existing permit correct?

☒ Yes ☐ No or New Permit

If no, or a new application, provide an accurate location description: Click to enter text.

e. Are the discharge route(s) in the existing permit correct?

☒ Yes ☐ No or New Permit

If no, or a new permit, provide an accurate description of the discharge route: Click to enter text.

f. City nearest the outfall(s): Hawkins

g. County in which the outfalls(s) is/are located: Wood

h. Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?

☐ Yes ☒ No

If yes, indicate by a check mark if: ☐ Authorization granted ☐ Authorization pending

For new and amendment applications, attach copies of letters that show proof of contact and provide the approval letter upon receipt. Attachment: Click to enter text.

For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Click to enter text.

i. For TLAPs, is the location of the effluent disposal site in the existing permit accurate?

☐ Yes No or New Permit ☐ Click to enter text.

If no, or a new application, provide an accurate location description: Click to enter text.

j. City nearest the disposal site: Click to enter text.

k. County in which the disposal site is located: Click to enter text.

l. For TLAPs, describe how effluent is/will be routed from the treatment facility to the disposal site: Click to enter text.

m. For TLAPs, identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Click to enter text.

Item 12. Miscellaneous Information (Instructions, Page 33)

a. Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?

☐ Yes ☒ No

If yes, list each person: Click to enter text.

b. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account no.: Click to enter text.

Total amount due: Click to enter text.

c. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Enforcement order no.: Click to enter text.

Amount due: Click to enter text.

Item 13. Signature Page (Instructions, Page 33)

Permit No: WQ0004812000

Applicant Name: Primo Brands

Certification: I, Sam Gordon, 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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code §305.44 to sign and submit this document and can provide documentation in proof of such authorization upon request.

Signatory name (typed or printed): Sam Gordon

Signatory title: Vice President, Regional T&P

Signature: _____ Date: _____

(Use blue ink)

Subscribed and Sworn to before me by the said _____

on this _____ day of _____, 20_____.

My commission expires on the _____ day of _____, 20_____.

_____

Notary Public [SEAL]

_____

County, Texas

Note: *If co-applicants are necessary, each entity must submit an original, separate signature page.*

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

Item 1. Affected Landowner Information (Instructions, Page 35)

a. Attach a landowner map or drawing, with scale, as applicable. Check the box next to each item to confirm it has been provided.

☒ The applicant's property boundaries.

☒ The facility site boundaries within the applicant's property boundaries.

☐ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone.

☒ The property boundaries of all landowners surrounding the applicant's property. (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)

☒ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream.

☒ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge.

☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides.

☐ The boundaries of the effluent disposal site (e.g., irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property.

☐ The property boundaries of all landowners surrounding the applicant's property boundaries where the effluent disposal site is located.

☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners within one-quarter mile of the applicant's property boundaries where the sewage sludge land application site is located.

☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (e.g., sludge surface disposal site or sludge monofil) is located.

Attachment: Attachment B

b. Check the box next to the format of the landowners list:

☐ Readable/Writeable CD ☒ Four sets of labels

Attachment: Attachment B

d. Provide the source of the landowners' names and mailing addresses: Wood County Appraisal District

e. As required by Texas Water Code § 5.115, is any permanent school fund land affected by this application?

☐ Yes ☒ No

If yes, provide the location and foreseeable impacts and effects this application has on the land(s): Click to enter text.

Item 2. Original Photographs (Instructions, Page 37)

Provide original ground level photographs. Check the box next to each of the following items to indicate it is included.

☐ At least one original photograph of the new or expanded treatment unit location.

☒ At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.

☐ At least one photograph of the existing/proposed effluent disposal site.

☒ A plot plan or map showing the location and direction of each photograph.

Attachment: Attachment C

INDUSTRIAL WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

This form applies to TPDES permit applications only. Complete and attach the Supplemental Permit information Form (SPIF) (TCEQ Form 20971).

Attachment: SPIF Form

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

Use this form to submit the Application Fee, if mailing the payment. (Instructions, Page 36-37)

- Complete items 1 through 5 below.
- Staple the check or money order in the space provided at the bottom of this document.
- Do not mail this form with the application form.
- Do not mail this form to the same address as the application.
- Do not submit a copy of the application with this form as it could cause duplicate permit entries.

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
P.O. Box 13088
Austin, Texas 78711-3088

BY OVERNIGHT/EXPRESS MAIL

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
12100 Park 35 Circle
Austin, Texas 78753

Fee Code: WQP **Permit No:** WQ0004812000

1. Check or Money Order Number: Click to enter text.
2. Check or Money Order Amount: Click to enter text.
3. Date of Check or Money Order: Click to enter text.
4. Name on Check or Money Order: Click to enter text.
5. APPLICATION INFORMATION

   Name of Project or Site: Primo Brands

   Physical Address of Project or Site: Click to enter text.

   If the check is for more than one application, attach a list which includes the name of each Project or Site (RE) and Physical Address, exactly as provided on the application.
   Attachment: Click to enter text.

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Item 1. Individual information (Instructions, Page 38)

Complete this attachment if the facility applicant or co-applicant is an individual. Make additional copies of this attachment if both are individuals.

Prefix (Mr., Ms., or Miss): Click to enter text.

Full legal name (first, middle, and last): Click to enter text.

Driver's License or State Identification Number: Click to enter text.

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

City, State, and Zip Code: Click to enter text.

Phone No.: Click to enter text.

Fax No.: Click to enter text.

E-mail Address: Click to enter text.

CN: Click to enter text.

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

Below is a list of common deficiencies found during the administrative review of industrial wastewater permit applications. To ensure the timely processing of this application, please review the items below and indicate each item is complete and in accordance applicable rules at 30 TAC Chapters 21, 281, and 305 by checking the box next to the item. If an item is not required this application, indicate by checking N/A where appropriate. Please do not submit the application until all items below are addressed.

☒ Core Data Form (TCEQ Form No. 10400)
(Required for all applications types. Must be completed in its entirety and signed. Note: Form may be signed by applicant representative.)

☒ Correct and Current Industrial Wastewater Permit Application Forms
(TCEQ Form Nos. 10055 and 10411. Version dated 5/10/2019 or later.)

☐ Water Quality Permit Payment Submittal Form (Page 14)
(Original payment sent to TCEQ Revenue Section. See instructions for mailing address.)

☒ 7.5 Minute USGS Quadrangle Topographic Map Attached
(Full-size map if seeking "New" permit. 8 ½ x 11 acceptable for Renewals and Amendments.)

☒ N/A ☐ Current/Non-Expired, Executed Lease Agreement or Easement Attached

☐ N/A ☒ Landowners Map
(See instructions for landowner requirements.)

Things to Know:

- All the items shown on the map must be labeled.
- The applicant's complete property boundaries must be delineated which includes boundaries of contiguous property owned by the applicant.
- The applicant cannot be its own adjacent landowner. You must identify the landowners immediately adjacent to their property, regardless of how far they are from the actual facility.
- If the applicant's property is adjacent to a road, creek, or stream, the landowners on the opposite side must be identified. Although the properties are not adjacent to applicant's property boundary, they are considered potentially affected landowners. If the adjacent road is a divided highway as identified on the USGS topographic map, the applicant does not have to identify the landowners on the opposite side of the highway.

☐ N/A ☒ Landowners Cross Reference List
(See instructions for landowner requirements.)

☐ N/A ☒ Landowners Labels or CD-RW attached
(See instructions for landowner requirements.)

☒ Original signature per 30 TAC § 305.44 – Blue Ink Preferred
(If signature page is not signed by an elected official or principle executive officer, a copy of signature authority/delegation letter must be attached.)

☒ Plain Language Summary

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

Applicants should use this template to develop a plain language summary of your facility and application as required by Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H. You may modify the template as necessary to accurately describe your facility as long as the summary includes the following information: (1) the function of the proposed plant or facility; (2) the expected output of the proposed plant or facility; (3) the expected pollutants that may be emitted or discharged by the proposed plant or facility; and (4) how you will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

Fill in the highlighted areas below to describe your facility and application in plain language. Instructions and examples are provided below. Make any other edits necessary to improve readability or grammar and to comply with the rule requirements. After filling in the information for your facility delete these instructions.

If you are subject to the alternative language notice requirements in 30 TAC Section 39.426, **you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package**. For your convenience, a Spanish template has been provided below.

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS INDUSTRIAL WASTEWATER/STORMWATER

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

BlueTriton Brands, Inc. (CN601458458) operates Nestle Waters North America Wood County Bottling Plant (RN102935301), a facility that manufactures, stores, bottles and distributes spring and drinking water products. The facility is located at 3265 Farm-to-Market 2869, in Hawkins, Wood County, Texas 75765. Primo Brands has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004812000
(EPA I.D. No. TX0129186) to authorize an increase of the discharge of wastewater to a volume not to exceed a daily average flow of 250,000 gallons per day and daily max flow of 330,000 gallons per day.

Discharges from the facility are expected to contain suspended solids, dissolved solids, sulfate, chloride, *E. coli*, and oil and grease. Wastewater is generated from the various bottling operations including Reverse-Osmosis units, bottling filler spill and flushes, cleaning water from bottling lines, Clean-in-Place processes, carbon and microfiltration systems, boiler

blowdown and cooling tower blowdown and will be treated by oil/water/grit separator drains to a neutralizer tank to adjust the pH due to low pH of source water. The water then flows through wetland cells and evaporative cell to a discharge pipeline outleting in Big Sandy Creek .

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

Section 1. Preliminary Screening

☐ New Permit or Registration Application

☒ New Activity – modification, registration, amendment, facility, etc. (see instructions)

If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.

Section 2. Secondary Screening

☒ Requires public notice,

☐ Considered to have significant public interest, **and**

☐ Located within any of the following geographical locations:

- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

If all the above boxes are not checked, a Public Involvement Plan is not necessary. Stop after Section 2 and submit the form.

☒ Public Involvement Plan not applicable to this application. Provide **brief** explanation.

Request increase in wastewater discharge flow for 2 additional bottling lines. The additional producti

Section 3. Application Information

Type of Application (check all that apply):

Air ☐ Initial ☐ Federal ☐ Amendment ☐ Standard Permit ☐ Title V

Waste ☐ Municipal Solid Waste ☐ Industrial and Hazardous Waste ☐ Scrap Tire
☐ Radioactive Material Licensing ☐ Underground Injection Control

Water Quality

☐ Texas Pollutant Discharge Elimination System (TPDES)

- ☐ Texas Land Application Permit (TLAP)
- ☐ State Only Concentrated Animal Feeding Operation (CAFO)
- ☐ Water Treatment Plant Residuals Disposal Permit

☐ Class B Biosolids Land Application Permit

☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water

☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water

☐ Add a New or Existing Reservoir

☐ Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Section 5. Community and Demographic Information

Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.

Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.

(City)

(County)

(Census Tract)
Please indicate which of these three is the level used for gathering the following information.

☐ City ☐ County ☐ Census Tract

(a) Percent of people over 25 years of age who at least graduated from high school

(b) Per capita income for population near the specified location

(c) Percent of minority population and percent of population by race within the specified location

(d) Percent of Linguistically Isolated Households by language within the specified location

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?

☐ Yes ☐ No

(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?

☐ Yes ☐ No

If Yes, please describe.

If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.

(c) Will you provide notice of this application in alternative languages?

☐ Yes ☐ No

Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.

If yes, how will you provide notice in alternative languages?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

(d) Is there an opportunity for some type of public meeting, including after notice?

☐ Yes ☐ No

(e) If a public meeting is held, will a translator be provided if requested?

☐ Yes ☐ No

(f) Hard copies of the application will be available at the following (check all that apply):

☐ TCEQ Regional Office ☐ TCEQ Central Office

☐ Public Place (specify)

Section 7. Voluntary Submittal

For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.

Will you provide notice of this application, including notice in alternative languages?

☐ Yes ☐ No

What types of notice will be provided?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

LEGEND:

- 3-Miles Downstream From Discharge Point
- 1-Mile Downstream From Discharge Point
- Piney Woods Springs - PWS Production Borehole
- Wood County Bottling Plant - PWS Production Well
- Temporary Wells - Construction and Irrigation
- Spring Sites
- Spring Monitoring Wells
- Monitoring Wells
- Private Wells
- Process Wetland Discharge
- Roadway
- Process Wetland Pipeline
- Process Wetland Discharge Pipeline
- Wetland One Mile Radius
- Bottling Facility
- Process Wetland
- Effluent Storage
- Site Property Boundary
- Discharge Path

PW-9
PW-10
PW-11
PW-12
PW-13 (Future Installation)
PW-14 (Future Installation)
PW-15 (Future Installation)
PW-16
MW-9
MW-3
MW-2
Spring-B
820B-1
820B-3
820B-2
MW-5
W1U
PW-1
W1
MW-1A
820A-1A
820A-3
820A-2
Spring-A
W2D
Spring-E
W3D
PW-2
W2
W2U
PW-3
W3
MW-6
W3U
820WELL
292WELL
100WELL
TW-1
TW-2
TW-3
UW-1
UW-3
UW-2
UW-4
Bottling Facility
Boundary of Process Wetland
Boundary of Effluent Storage
PW-4
W4
W5
PW-5
MW-7
F3
F2
F1
Spring-F
MW-8
Spring-C
820C-1
820C-3
820C-2
A-3
PW-6
A-2
Spring-K
PW-8
Spring-D
MW-4
820D-1
820D-3
820D-4
A-4S
A-4D
A-1
PW-7
Eschevarria
Schamberger
Warren Swamp
Greenbriar Lake
Greenbriar Creek
Big Sandy Creek
Boggy Creek
Boggy Lake
Nichols Branch
Peron Branch
Peron Ch
Sand Branch
TRAILER PARK
APPROXIMATE BOUNDARY
BR 326
PIPELINES

N

SCALE
1:24,000

0 1,000 2,000 Feet
0 0.25 0.5 Miles
0 0.5 1 Kilometers

Copyright:© 2013 National Geographic Society, i-cubed

TPDES Permit Renewal Application

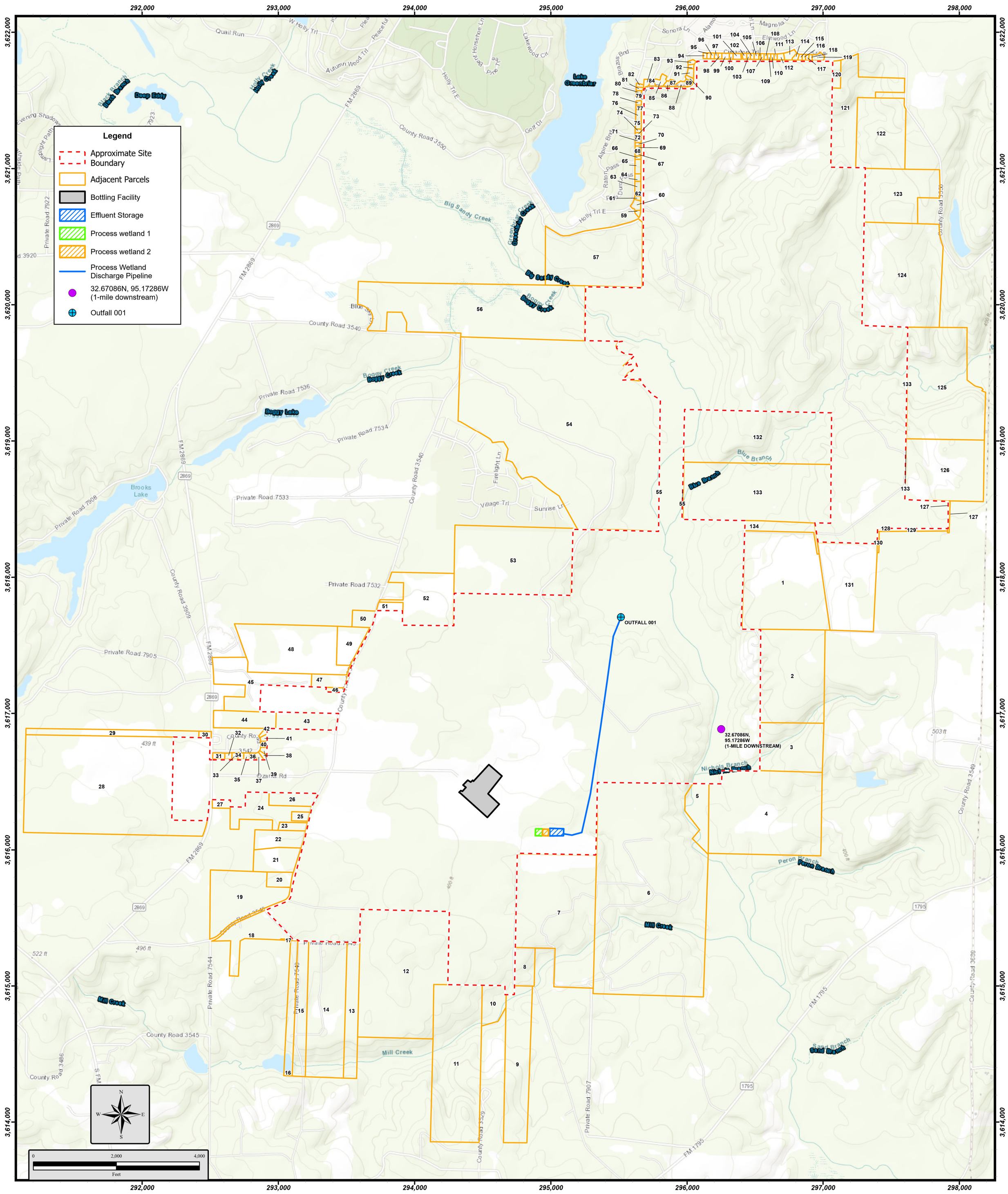
Primo Brands
Wood County Bottling Plant
Wood County, Texas

Project No.

Apex Companies, LLC
12100 Ford Road, Suite 401
Frisco, Texas 75234
Phone: (469) 365-1100
www.apexcos.com

Area Topographic Map

Shady Grove Texas Quadrangle
1982



APEX COMPANIES, LLC
12501 Hymeadow Dr #1G
Austin, TX 7875
(512) 250-2600
www.apexcos.com

PRIMO BRANDS™

FIGURE XX - ADJACENT LANDOWNER MAP

TPDES Permit Application
Wood County Bottling Plant
Primo Brands
Apex Project No. BLU062-0206725-24013519
April 2025

Service Layer Credits: World Topographic Map: Smith County, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA
World Boundaries and Places: Esri, HERE, Garmin, iPC

Coordinate System: NAD 1983 2011 UTM Zone 15N

Document Path: Z:\GIS_Repository\Austin\2025\BlueTriton (Primo Brands)\Blue Triton (Primo Brands).aprx

ID	PROP ID	Landowner Name	Landowner Address
1	24483	Theodore & Engeline Hobma	140 PR 3801, BIG SANDY, TX 75755
2	20288	Theodore & Engeline Hobma	140 PR 3801, BIG SANDY, TX 75755
3	20289	Bert Davis	P.O. BOX 1432, HAWKINS, TX 75765
4	11536	Bert Davis	P.O. BOX 1432, HAWKINS, TX 75765
5	81843	David Michael L	7212 Windswept Trl, Colleyville TX 76034
6	16912	Vernon & Betty L Moore	2120 Creekside Circle South, Irving TX 78063
7	22180	Lawrence & Katy Mooney	PO Box 641, Hawkins, TX 75765
8	52285	Richey Lovis H	4004 Fairmont Court, Bedford, TX 76021
9	20207	Griffin Deborah Lynn Waller	1731 CR 3520, Hawkins, TX 75765
10	50261	Gezella Christie Renee	532 Bronzewood Ln, Fort Worth, TX 76131
11	20206	Campman Layne Royal & Cindy Jo	1100 Ridge Road West, Rockwall, TX 75087
12	18653	Belz Darel Ray	718 Bowie St, Forney, TX 75126
13	14618	McLain Sandra	2915 Maydelle Lane, Farmers Branch, TX 75234
14	14620	Maxson Michael D & Vickie E	110 PR 7543, Hawkins, TX 75765
15	14619	McGee Joey William & Jessica Renee	302 RCR 3319, Emory, YTX 75440
16	75349	Clemons Lagatha Kay	402 Lazy Spring, Red Oak, TX 75154
17	86012	Fulfer Vickie	PO Box 1486, Hawkins, TX 75765
18	52955	Todd Sarah	PO Box 24, Hawkins, TX 75765
19	14596	Todd Raymond L	PO Box 24, Hawkins, TX 75765
20	14597	Johnson Carla R & Kelly Johnson & Brianna Williams	6688 John Hickman Parkway Apt 521, Frisco, TX 75034
21	14592	Kirklin Phillip & Brittany D	973 CR 3540, Hawkins, TX 75765
22	114935	Richard Lane & Carol Webb Davis	1107 CR 3540, Hawkins, TX 75765
23	75368	Darrell W. Holley	326 Deer Path Lane, Holly Lake Ranch, TX 75765
24	85775	Darrell W. Holley	326 Deer Path Lane, Holly Lake Ranch, TX 75765
25	14591	Carrie Ellis Diese	1143 CR 3540, Hawkins, TX 75765
26	80963	John Weick	1199 CR 3540, Hawkins, TX 75765
27	74906	De La Torre Javier	1700 Boathouse Rd, Edmond, OK 73034
28	115149	Proxima Rerrae LLC A Texas LLC	PO BOX 489, 2521 South FM 2869, Hawkins, TX 75765
29	84530	CCHB Properties LLC	PO Box 489, Hawkins, TX 75765
30	78568	Cain Antoine P	3230 S FM 2869m Hawkins, TX 75765
31	75693	Devany Sean & Katie	17326, Outlaw Ridge Rd, Houston, TX 77095

ID	PROP ID	Landowner Name	Landowner Address
32	74544	Alvaro Corrada Del Rio	Bishop of the Catholic Diocese of Tyler, 1612 S FM 2869, Holly Lake Ranch, TX 75765
33	74545	Bergen Clifford & Patricia	170 CR 3542, Hawkins, TX 75765
34	74546	Trammell Tony Ray & Regina L Trustees of the Trammel Family Living	190 CR 3542, Hawkins, TX 75765
35	74547	Andy W & Sherry J Spodnick	220 CR 3542, Hawkins, TX 75765
36	74548	Cinda Owen	248 CR 3542, Hawkins, TX 75765
37	74549	Jesse & Sandi M Purslow	463 PR 6624, Mineola, TX, 75773
38	74550	Smith Steven Wayne	270 CR 3542, Hawkins, TX 75765
39	74551	Gentry Timothy W & Connie F	280 CR 3542, Hawkins, TX 75765
40	74552	Simser Guy	290 CR 3542, Hawkins, TX 75765
41	74553	Thomas Kenneth & Tracy	310 CR 3542, Hawkins, TX 75765
42	74554	Merritt Mark C	314 CR 3542, Hawkins, TX 75765
43	76742	David & Angela Heffner	1561 CR 3540, Hawkins, TX 75765
44	54196	Church Holly Brook Baptist	3219 S FM 2869, Hawkins, TX 75765
45	14659	MMGL Texas II LLC	13727 Noel Rd Ste 1200, Dallas, TX 75230
46	14671	Boehm Leonard J & Kathryn B	1743 CR 3540, Hawkins, TX 75765
47	14660	Boehm Leonard J & Kathryn B	1743 CR 3540, Hawkins, TX 75765
48	14667	Box 379 Properties LLC	PO Box 318, Hawkins, TX 75765
49	65366	Box 379 Properties LLC	PO Box 318, Hawkins, TX 75765
50	16681	Robertson Billy	1995 Cr 3540, Hawkins, TX 75765
51	78021	Clary Morton B II & Sharon K	2030 CR 3540, Hawkins, TX 75765
52	16695	William W Beggs	222 CR 3540, Hawkins, TX 75765
53	14099	Donald R Whisenhunt	2340 CR 3540, Hawkins, TX 75765
54	22177	Lapa Champion LLC	3196 CR 3540, Hawkins, TX 75765
55	20409397	**Multiple Landowners (Nestle has access)**	
56	79465	Lapa Champion LLC	3196 CR 3540, Hawkins, TX 75765
57	70068	Lapa Champion LLC	3196 CR 3540, Hawkins, TX 75765
58	31606	Martin Kevin & Lisa	110 Pebble Cove, Holly Lake Ranch, TX 75765
59	31605	Martin Kevin & Lisa	110 Pebble Cove, Holly Lake Ranch, TX 75765
60	31603	Miller David T & Cynthia L Housley	1470 Holly Trail East, Holly Lake Ranch, TX 75765
61	31601	Wood County Trustee	1517 W Front St Ste 202, Tyler, TX 75702
62	31600	Bahrassa F S & P K Shroff Living	3404 Furlong Dr East, Flower Mound, TX 75022
63	31597	Byrd Alton W & Brenda J	142 Nickey Ln, Ripley, MS 38663
64	31595	Chappell Betsy & William	1560 Holly Trail East, Holly Lake Ranch, TX 75765

ID	PROP ID	Landowner Name	Landowner Address
65	31592	Pylant James R & Sandra M	1630 Holly Trail East, Holly Lake Ranch, TX 75765
66	31590	Bridges Julie & James Brian Pylant	1658 Holly Trail East, Holly Lake Ranch, TX 75765
67	31589	Clark James D & Beckie K	1668 Holly Trail East, Holly Lake Ranch, TX 75765
68	31588	James Clark	1668 Holly Trail East, Holly Lake Ranch, TX 75765
69	31857	Pham Han St Vir Chi Huynh	6224 S SH 37, Mineola, TX 75773
70	31586	Pineywood Builders Inc	3795 S FM 2869, Hawkins, TX 75765
71	31585	Ledford Donald Ray	284 Brazos Bend, Holly Lake Ranch, TX 75765
72	31584	Wood County TTEE	PO Box 1919, Quitman, TX 75783
73	31583	Rolen Rhonda	401 E South St, Lindale, TX 75771
74	31582	Goodman Kathryn & Ronald	1740 Holly Trail East, Holly Lake Ranch, TX 75765
75	31581	Tranholt Robin Lee & Bernadette	1762 Holly Trail East, Holly Lake Ranch, TX 75765
76	31577	Hart Debbie & Norman Hart	1806 Holly Trail East, Holly Lake Ranch, TX 75765
77	31576	Pelina Ruben & Amy V	960 Grossmont Ave, El Cajon, Ca 92020
78	31575	Holly Lake Rank Association	220 Holly Lodge Circle, Holly Lake Ranch, TX 75765
79	31533	Torres Juan A	921 Park East Circle, Farland, TX 75043
80	31532	Cruz Albert & Edna Carina Limon	300 E Camillia Ave Apt #C320, McAllen, TX 78501
81	31531	Cruz Albert & Edna Carina Limon	300 E Camillia Ave Apt #C320, McAllen, TX 78501
82	31530	Cabrera M C Jr	1540 Limelight Ct, Colorado Springs, CO 80906
83	31516	Place Robert L Etuc Janice L	180 Shiprock Path, Holly Lake Ranch, TX 75765
84	31515	Hood Anita	184 Shiprock Path, Holly Lake Ranch, TX 75765
85	31503	David James Michael & Belinda Diane Davis	176 Shasta Path, Holly Lake Ranch, TX 75765
86	31502	Oates William E & Connie G	184 Shasta Path, Holly Lake Ranch, TX 75765
87	31501	Tomonto Peter M Et Al	165 Shasta Path, Holly Lake Ranch, TX 75765
88	31488	Ward Chaney	200 Sundance Path, Holly Lake Ranch, TX 75765
89	31487	Vela Robert	1308 Royster Rd, Fort Worth, TX 76134

ID	PROP ID	Landowner Name	Landowner Address
90	31486	Ward Chaney D Caldwell & John T	200 Sundance Path, Holly Lake Ranch, TX 75765
91	31484	Ward Chaney D Caldwell & John T	200 Sundance Path, Holly Lake Ranch, TX 75765
92	31483	Thompson Derek & Rebecca	141 Sundance Path, Holly Lake Ranch, TX 75765
93	31482	Thompson Derek & Rebecca	141 Sundance Path, Holly Lake Ranch, TX 75765
94	31352	Ascension Resorts Ltd	Orange Lake Resorts, Attn Financial Service Group, 9271 S John Young Ikwy, Orlandom FL 32819
95	31351	Quisenberry Corbin & Nkiru	2910 Alto Drm Sachse, TX 75048
96	31350	Jones Louis N & Retha N	4323 Honduras St, Los Angeles, CA 90011
97	31349	Parker James William	788 AN CR 2109, Elkhart, TX 75839
98	31348	Wood County Trustee	PO Box 1919, Quitman, TX 75783
99	31347	Parsons Albert E Etux Shirley A	434 Cimarron Trail, Hawkins, TX 75765
100	31345	Brooks A Jr	577 FM 555 Gilmer, TX 75644
101	31344	McGarity Kimberly & Kevin	474 Cimarron Trail, Holly Lake Ranch, TX 75765
102	30614	King Demarcks	3752 Cottage Park Circle, Tyler, TX 75707
103	30615	Dixon Tommy A & Natalie	556 Cimarron Trail, Holly Lake Ranch, TX 75765
104	30616	Dixon Tommy A & Natalie	556 Cimarron Trail, Holly Lake Ranch, TX 75765
105	30617	Dixon Natalie & Tommy Allan	556 Cimarron Trail, Holly Lake Ranch, TX 75765
106	124028	Hartman Terry	3617 Wandering Trail, Plano, TX 75075
107	30619	Villalobos Mario A	6123 Plantation Dr, Tyler, TX 75703
108	30620	Oubre Rene L Jr & Kathryn L	16345 Antietam Ave, Baton Rouge, La 70817
109	30621	Oubre Rene L Jr & Kathryn L	16345 Antietam Ave, Baton Rouge, La 70817
110	30622	Barncord Daniel Lee & Angela	618 Cimarron Trail, Hawkins, TX 75765
111	30623	Pfund James Kemer Trust	628 Cimarron Trail, Holly Lake Ranch, TX 75765
112	30624	Van Allen Frank S & Elisabeth M	18576 FM 740, Forney, TX 75126
113	30627	Daniel Laney Christopher	684 Cimarron Trail, Holly Lake Ranch, TX 75765
114	30629	Stein Gary A & Patty M	120 Wildwood Trail, Holly Lake Ranch, TX 75765

ID	PROP ID	Landowner Name	Landowner Address
115	30630	White Walter & Glenda White	126 Wildwood Trail, Holly Lake Ranch, TX 75765
116	30631	Crone Sarah Catherine	138 Wildwood Trail, Holly Lake Ranch, TX 75765
117	30632	Carter Marie	**No address listed**
118	30633	Chamley Andrew E & Sue	**No address listed**
119	30635	McConniel Mina Janeen Et Vir Richard Alfred McConniel	184 Wildwood Trail, Holly Lake Ranch, TX 75765
120	80194	Chappell Betsy & William	2868 CR 3550, Holly Lake Ranch, TX 75765
121	121075	Chappell Betsy & William	2868 CR 3550, Holly Lake Ranch, TX 75765
122	118041	Bergh Albert Gordon Jr & Patricia L	3300 CR 3550, Holly Lake Ranch, TX 75765
123	18349	Wade James Whitfield	2193 S Mimosa Rd, Big Sandy, TX 75755
124	18355	Shipp Rickey	4441 FM 1002 S. Big Sandy, TX 75755
125	12115	Byrd Audis C Etux Deborah K	834 White Dogwood Rd, Big Sandy, TX 75755
126	24482	Byrd Audis C Etux Deborah K	834 White Dogwood Rd, Big Sandy, TX 75755
127	137901	Byrd Audis C Etux Deborah K	834 White Dogwood Rd, Big Sandy, TX 75755
128	106914	Byrd James Aaron & Susan Camille Byrd, Co Trustees	110 Rolling Spring Drive, Aledo, TX 76008
129	106915	Byrd James Aaron & Susan Camille Byrd, Co Trustees	110 Rolling Spring Drive, Aledo, TX 76008
130	106912	Byrd James Aaron & Susan Camille Byrd, Co Trustees	110 Rolling Spring Drive, Aledo, TX 76008
131	24475	Byrd Audis C Etux Deborah K	834 White Dogwood Rd, Big Sandy, TX 75755
132	21973	Joe & Judy Byrd Properties LLC	110 Rolling Spring Drive, Aledo, TX 76008
133	63354	Byrd Audis C	834 White Dogwood Rd, Big Sandy, TX 75755
134	96698	Byrd Audis C, James Aaron Byrd & Susan Camille Byrd	834 White Dogwood Rd, Big Sandy, TX 75755

MR AND MRS THEODORE HOBMA

140 PR 3801

BIG SANDY TX 75755

BERT DAVIS

P.O. BOX 1432

HAWKINS TX 75765

MICHAEL DAVIS

7212 WINDSWEPT TRL

COLLEYVILLE TX 76034

MR AND MRS VERNON MOORE

2120 CREEKSIDE CIRCLE SOUTH

IRVING TX 78063

MR AND MRS LAWRENCE MOONEY

PO BOX 641

HAWKINS TX 75765

LOVIS RICHEY

4004 FAIRMONT COURT

BEDFORD TX 76021

DEBORAH GRIFFIN

1731 CR 3520

HAWKINS TX 75765

CHRISTIE GEZELLA

532 BRONZEWOOD LN

FORT WORTH TX 76131

MR AND MRS ROYAL CAMPMAN

1100 RIDGE ROAD WEST

ROCKWALL TX 75087

DAREL BELZ

718 BOWIE ST

FORNEY TX 75126

SANDRA MCLAIN

2915 MAYDELLE LANE

FARMERS BRANCH TX 75234

MR AND MRS MICHAEL MAXSON

110 PR 7543

HAWKINS TX 75765

MR AND MRS JOEY MCGEE

302 RCR 3319

EMORY TX 75440

LAGATHA KAY CLEMONS

402 LAZY SPRING

RED OAK TX 75154

VICKIE FULFER

PO BOX 1486

HAWKINS TX 75765

SARAH TODD

PO BOX 24

HAWKINS TX 75765

RAYMOND TODD

PO BOX 24

HAWKINS TX 75765

CARLA AND KELLY JOHNSON AND BRIANNA WILLIAMS

6688 JOHN HICKMAN PARKWAY APT 521

FRISCO TX 75034

MR AND MRS PHILLIP KIRKLIN

973 CR 3540

HAWKINS TX 75765

RICHARD AND CAROL DAVIS

1107 CR 3540

HAWKINS TX 75765

DARRELL W. HOLLEY

326 DEER PATH LANE

HOLLY LAKE RANCH TX 75765

CARRIE ELLIS DIESE

1143 CR 3540

HAWKINS TX 75765

JOHN WEICK

1199 CR 3540

HAWKINS TX 75765

JAVIER DE LA TORRE

1700 BOATHOUSE RD

EDMOND OK 73034

PROXIMA RERRAE LLC

PO BOX 489

HAWKINS TX 75765

CCHB PROPERTIES LLC

PO BOX 489

HAWKINS TX 75765

ANTOINE CAIN

3230 S FM 2869

HAWKINS, TX 75765

SEAN AND KATIE DEVANY

17326 OUTLAW RIDGE RD

HOUSTON TX 77095

ALVARO CORRADA DEL RIO
BISHOP OF THE CATHOLIC DIOCESE OF TYLER
1612 S FM 2869
HOLLY LAKE RANCH TX 75765

CLIFFORD AND PATRICIA BERGEN

170 CR 3542

HAWKINS TX 75765

RAY AND REGINA TRAMMEL
190 CR 3542
HAWKINS TX 75765

ANDY AND SHERRY SPODNICK
220 CR 3542
HAWKINS TX 75765

CINDA OWEN
248 CR 3542
HAWKINS TX 75765

JESSE AND SANDI PURSLOW
463 PR 6624
MINEOLA TX 75773

STEVEN SMITH
270 CR 3542
HAWKINS TX 75765

TIMOTHY AND CONNIE GENTRY
280 CR 3542
HAWKINS TX 75765

GUY SIMSER
290 CR 3542
HAWKINS TX 75765

KENNETH AND TRACY THOMAS
310 CR 3542
HAWKINS TX 75765

MARK MERRITT
314 CR 3542
HAWKINS TX 75765

DAVID AND ANGELA HEFFNER
1561 CR 3540
HAWKINS TX 75765

CHURCH HOLLY BROOK BAPTIST
3219 S FM 2869
HAWKINS TX 75765

MMGL TEXAS II LLC
13727 NOEL RD STE 1200
DALLAS TX 75230

LEONARD AND KATHRYN BOEHM
1743 CR 3540
HAWKINS TX 75765

BOX 379 PROPERTIES LLC
PO BOX 318
HAWKINS TX 75765

BILLY ROBERTSON
1995 CR 3540
HAWKINS TX 75765

MORTON AND SHARON CLARY
2030 CR 3540
HAWKINS TX 75765

WILLIAM BEGGS
222 CR 3540
HAWKINS TX 75765

DONALD R WHISENHUNT
2340 CR 3540
HAWKINS TX 75765

LAPA CHAMPION LLC
3196 CR 3540
HAWKINS TX 75765

KEVIN AND LISA MARTIN
110 PEBBLE COVE
HOLLY LAKE RANCH TX 75765

DAVID MILLER AND CYNTHIA HOUSLEY
1470 HOLLY TRAIL EAST
HOLLY LAKE RANCH TX 75765

WOOD COUNTY TRUSTEE
1517 W FRONT ST STE 202
TYLER TX 75702

BAHRASSA F S AND P K SHROFF LIVING
3404 FURLONG DR EAST
FLOWER MOUND TX 75022

ALTON AND BRENDA BYRD
142 NICKEY LN
RIPLEY MS 38663

BETSY AND WILLIAM CHAPPELL
1560 HOLLY TRAIL EAST
HOLLY LAKE RANCH TX 75765

JAMES AND SANDRA PYLANT
1630 HOLLY TRAIL EAST
HOLLY LAKE RANCH TX 75765

JULIE AND JAMES BRIDGES
1658 HOLLY TRAIL EAST
HOLLY LAKE RANCH TX 75765

JAMES AND BECKIE CLARK
1668 HOLLY TRAIL EAST
HOLLY LAKE RANCH TX 75765

PHAM HAN ST VIR CHI HUYNH
6224 S SH 37
MINEOLA TX 75773

PINEYWOOD BUILDERS INC
3795 S FM 2869
HAWKINS TX 75765

DONALD RAY LEDFORD

284 BRAZOS BEND

HOLLY LAKE RANCH TX 75765

WOOD COUNTY TTEE

PO BOX 1919

QUITMAN TX 75783

RHONDA ROLEN

401 E SOUTH ST

LINDALE TX 75771

KATHRYN AND RONALD GOODMAN

1740 HOLLY TRAIL EAST

HOLLY LAKE RANCH TX 75765

ROBIN AND BERNADETTE TRANHOLT

1762 HOLLY TRAIL EAST

HOLLY LAKE RANCH TX 75765

DEBBIE AND NORMAN HART

1806 HOLLY TRAIL EAST

HOLLY LAKE RANCH TX 75765

RUBEN AND AMY PELINA

960 GROSSMONT AVE

EL CAJON CA 92020

HOLLY LAKE RANK ASSOCIATION

220 HOLLY LODGE CIRCLE

HOLLY LAKE RANCH TX 75765

JUAN TORRES

921 PARK EAST CIRCLE

FARLAND TX 75043

ALBERT AND EDNA CRUZ

300 E CAMILLIA AVE APT #C320

MCALLEN TX 78501

M C CABRERA JR

1540 LIMELIGHT CT

COLORADO SPRINGS CO 80906

ROBERT AND JANICE PLACE

180 SHIPROCK PATH

HOLLY LAKE RANCH TX 75765

ANITA HOOD

184 SHIPROCK PATH

HOLLY LAKE RANCH TX 75765

DAVID AND BELINDA DAVIS

176 SHASTA PATH

HOLLY LAKE RANCH TX 75765

WILLIAM AND CONNIE OATES

184 SHASTA PATH

HOLLY LAKE RANCH TX 75765

PETER TOMONTO

165 SHASTA PATH

HOLLY LAKE RANCH TX 75765

CHANEY CALDWELL AND JOHN WARD

200 SUNDANCE PATH

HOLLY LAKE RANCH TX 75765

ROBERT VELA

1308 ROYSTER RD

FORT WORTH TX 76134

DEREK AND REBECCA THOMPSON

141 SUNDANCE PATH

HOLLY LAKE RANCH TX 75765

ASCENSION RESORTS LTD ORANGE LAKE RESORTS
ATTN FINANCIAL SERVICE GROUP
9271 S JOHN YOUNG PKWY
ORLANDO FL 32819

CORBIN AND NKIRU QUISENBERRY

2910 ALTO DRM

SACHSE TX 75048

LOUIS AND RETHA JONES

4323 HONDURAS ST

LOS ANGELES CA 90011

JAMES WILLIAM PARKER

788 AN CR 2109

ELKHART TX 75839

WOOD COUNTY TRUSTEE

PO BOX 1919

QUITMAN TX 75783

ALBERT AND SHIRLEY PARSONS

434 CIMARRON TRAIL

HAWKINS TX 75765

BROOKS A JR

577 FM 555

GILMER TX 75644

KIMBERLY AND KEVIN MCGARITY

474 CIMARRON TRAIL

HOLLY LAKE RANCH TX 75765

DEMARCKS KING

3752 COTTAGE PARK CIRCLE

TYLER TX 75707

TOMMY AND NATALIE DIXON

556 CIMARRON TRAIL

HOLLY LAKE RANCH TX 75765

RENE AND KATHRYN OUBRE

16345 ANTIETAM AVE

BATON ROUGE LA 70817

MARIO VILLALOBOS

6123 PLANTATION DR

TYLER TX 75703

DANIEL AND ANGELA BARNCORD

618 CIMARRON TRAIL

HAWKINS TX 75765

PFUND JAMES KEMER TRUST

628 CIMARRON TRAIL

HOLLY LAKE RANCH TX 75765

FRANK AND ELISABETH VAN ALLEN

18576 FM 740

FORNEY TX 75126

DANIEL LANEY CHRISTOPHER

684 CIMARRON TRAIL

HOLLY LAKE RANCH TX 75765

GARY AND PATTY STEIN

120 WILDWOOD TRAIL

HOLLY LAKE RANCH TX 75765

WALTER AND GLENDA WHITE

126 WILDWOOD TRAIL

HOLLY LAKE RANCH TX 75765

SARAH CRONE

138 WILDWOOD TRAIL

HOLLY LAKE RANCH TX 75765

MINA AND RICHARD MCCONNIEL

184 WILDWOOD TRAIL

HOLLY LAKE RANCH TX 75765

BETSY AND WILLIAM CHAPPELL

2868 CR 3550

HOLLY LAKE RANCH TX 75765

ALBERT AND PATRICIA BERGH

3300 CR 3550

HOLLY LAKE RANCH TX 75765

JAMES WADE

2193 S MIMOSA RD

BIG SANDY TX 75755

RICKEY SHIPP

4441 FM 1002 S.

BIG SANDY TX 75755

AUDIS AND DEBORAH BYRD

834 WHITE DOGWOOD RD

BIG SANDY TX 75755

JAMES AND SUSAN BYRD, CO TRUSTEES

110 ROLLING SPRING DRIVE

ALEDO TX 76008

JOE & JUDY BYRD PROPERTIES LLC

110 ROLLING SPRING DRIVE

ALEDO TX 76008

TERRY HARTMAN

3617 WANDERING TRAIL

PLANO TX 78075

RENE AND KATHRYN OUBRE

16345 ANTIETAM AVE

BATON ROUGE LA 70817



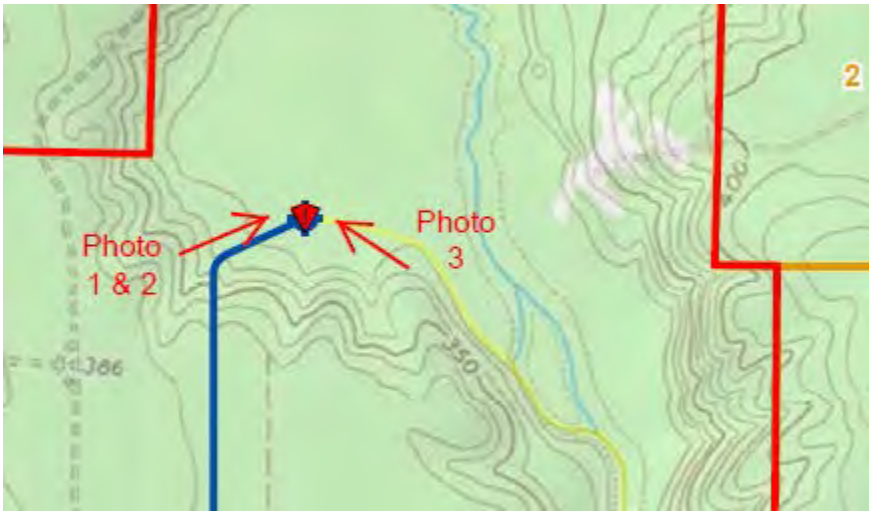
Photograph 1: Outfall 001 – Discharges to marsh area of Big Sandy Creek – EXISTING (No Change)



Photograph 2: Outfall 001 discharge structure – EXISTING (No Change)



Photograph 3: View downstream of Outfall 001 – Looking NW – EXISTING (No Change)



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

_____ Texas Historical Commission _____ U.S. Fish and Wildlife

_____ Texas Parks and Wildlife Department _____ U.S. Army Corps of Engineers

This form applies to TPDES permit applications only. (Instructions, Page 53)

Complete this form as a separate document. TCEQ will mail a copy to each agency as required by our agreement with EPA. If any of the items are not completely addressed or further information is needed, we will contact you to provide the information before issuing the permit. Address each item completely.

Do not refer to your response to any item in the permit application form. Provide each attachment for this form separately from the Administrative Report of the application. The application will not be declared administratively complete without this SPIF form being completed in its entirety including all attachments. Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

The following applies to all applications:

1. Permittee: Primo Brands

   Permit No. WQ00 04812000 EPA ID No. TX 0129186

   Address of the project (or a location description that includes street/highway, city/vicinity, and county):

   3265 S FM 2869, Hawkins, TX 75765

Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.

Prefix (Mr., Ms., Miss): Mr.

First and Last Name: Brandon Holland

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: Primo Brands

Mailing Address: 3265 S FM 2869

City, State, Zip Code: Hawkins, TX 75765

Phone No.: 903-707-7350 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: Brandon.holland@primobrands.com

2. List the county in which the facility is located: Wood
3. If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.

Click here to enter text.

4. Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number.

Discharge from constructed wetland system is pumped to Outfall 001 with direct discharges to Big Sandy Creek (Segment 0514). No changes in the existing permitted outfall or effluent discharge route is proposed

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report).

Provide original photographs of any structures 50 years or older on the property.

Does your project involve any of the following? Check all that apply.

- ☐ Proposed access roads, utility lines, construction easements
- ☐ Visual effects that could damage or detract from a historic property's integrity
- ☐ Vibration effects during construction or as a result of project design
- ☐ Additional phases of development that are planned for the future
- ☐ Sealing caves, fractures, sinkholes, other karst features

☐ Disturbance of vegetation or wetlands

1. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):

Existing facility

2. Describe existing disturbances, vegetation, and land use:

Existing facility for manufacturing of bottled spring water and drinking water products.

THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

3. List construction dates of all buildings and structures on the property:

Manufacturing building was constructed in 2002. Wetlands were constructed in 2008.

4. Provide a brief history of the property, and name of the architect/builder, if known.

General contractor for the original manufacturing plant construction was Haskell. Prior to construction the property was undeveloped.

TECHNICAL REPORT

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

The following information **is required** for all applications for a TLAP or an individual TPDES discharge permit.

For **additional information** or clarification on the requested information, please refer to the Instructions for Completing the Industrial Wastewater Permit Application[1] available on the TCEQ website. Please contact the Industrial Permits Team at 512-239-4671 with any questions about this form.

If more than one outfall is included in the application, provide applicable information for each individual outfall. **If an item does not apply to the facility, enter N/A** to indicate that the item has been considered. Include separate reports or additional sheets as **clearly cross-referenced attachments** and provide the attachment number in the space provided for the item the attachment addresses.

NOTE: This application is for an industrial wastewater permit only. Additional authorizations from the TCEQ Waste Permits Division or the TCEQ Air Permits Division may be needed.

Item 1. Facility/Site Information (Instructions, Page 39)

a. Describe the general nature of the business and type(s) of industrial and commercial activities. Include all applicable SIC codes (up to 4).

The Primo Brands(Primo) Wood County Bottling Plant was developed around a series of natural spring water sources on-site. Primo collects spring water from an array of boreholes located on the east and west side of Big Sandy Creek. The bottling facility has manufacturing, warehouse, and distribution of spring water and drinking water in accordance with TDH/FDA requirements. The bottling plant has multiple Public Water Supply (PWS) wells which provide the raw water source for the facilities spring and drinking water products. PWS wells PW-1 through PW-16 are authorized via TCEQ PWS ID 2500059. Plant Utility Wells (UW-1 through UW-4) are authorized under PWS ID 2500060. Applicable SIC Codes are 2086 and 5149. Applicable NAICS Codes are 312112 and 42249.

b. Describe all wastewater-generating processes at the facility.

Wastewater is generated from various bottling operations and includes wastewater from Reserve-Osmosis (RO) units, bottle filler spills and flushes, cleaning water from bottling lines, Clean-In-Place (CIP) processes, carbon and microfiltration systems, boiler blowdown and cooling tower blowdown. These wastewater streams receive primary treatment including separation of any oil and pH adjustment. Secondary treatment is provided through an engineered wetland system with passive, biological practices that mimic ecological water purification. This is accomplished with a combination of wetland plant material, organic soil media, and inorganic gravel media providing treatment through plan uptake, absorption, microbial activity, and filtering. The effluent is monitored for direct discharge to Big Sandy Creek (Segment 0514).

[1] https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES_industrial_wastewater_steps.html

c. Provide a list of raw materials, major intermediates, and final products handled at the facility.

Materials List

Raw Materials	Intermediate Products	Final Products
Spring Water / Groundwater		Bottled Spring Water
Chlorine		Bottled Drinking Water
Corrosion Inhibitors		
Line Lubrication Chemicals		
Boiler Chemicals		
Cooling Tower Chemicals		
Disinfectant Chemicals including Biocides		

Attachment: Attachment D

d. Attach a facility map (drawn to scale) with the following information:

- Production areas, maintenance areas, materials-handling areas, waste-disposal areas, and water intake structures.
- The location of each unit of the WWTP including the location of wastewater collection sumps, impoundments, outfalls, and sampling points, if significantly different from outfall locations.

Attachment: Attachment C

e. Is this a new permit application for an existing facility?

☐ Yes ☒ No

If **yes**, provide background discussion: Click to enter text.

f. Is/will the treatment facility/disposal site be located above the 100-year frequency flood level.

☒ Yes ☐ No

List source(s) used to determine 100-year frequency flood plain: FEMA Map- Attachment C

If **no**, provide the elevation of the 100-year frequency flood plain and describe what protective measures are used/proposed to prevent flooding (including tail water and rainfall run-on controls) of the treatment facility and disposal area: Click to enter text.

Attachment: Click to enter text.

g. For **new** or **major amendment** permit applications, will any construction operations result in a discharge of fill material into a water in the state?

☐ Yes ☒ No ☐ N/A (renewal only)

h. If **yes** to Item 1.g, has the applicant applied for a USACE CWA Chapter 404 Dredge and Fill permit?

☐ Yes ☐ No

If **yes**, provide the permit number: Click to enter text.

If **no**, provide an approximate date of application submittal to the USACE: Click to enter text.

Item 2. Treatment System (Instructions, Page 40)

a. List any physical, chemical, or biological treatment process(es) used/proposed to treat wastewater at this facility. Include a description of each treatment process, starting with initial treatment and finishing with the outfall/point of disposal.

The wastewater streams drain via gravity through an oil/water/grit separator to a 12,000 gallon underground tank where wastewater is neutralized to a pH between 6 and 9 SU. Please note that the on-site source water (both spring water and groundwater) have a pH range of 4 to 5 SU. This naturally low pH source water coupled with plant processes results in the need for pH adjustments. The existing constructed wetlands comprise the pos pH adjustment physical and biological treatment processes. The wetlands system is designed as part Subsurface Flow (SSF) and part Free Water Surface Flow (FWS) within the same graded and lined basin. Both SSF and FWS constructed areas contain native wetland plantings. All constructed wetlands and effluent storage impoundments were constructed with HDPE dual liners and leak detection system. Effluent is pumped from the effluent storage impoundment for final discharge via pipeline to Big Sandy Creek (Segment 0514). No changes in Wetlands Operation are proposed as part of this Renewal application.

b. Attach a flow schematic **with a water balance** showing all sources of water and wastewater flow into the facility, wastewater flow into and from each treatment unit, and wastewater flow to each outfall/point of disposal.

Attachment: Attachment C

Item 3. Impoundments (Instructions, Page 40)

Does the facility use or plan to use any wastewater impoundments (e.g., lagoons or ponds?)

☒ Yes ☐ No

If **no**, proceed to Item 4. If **yes**, complete **Item 3.a** for **existing** impoundments and **Items 3.a - 3.e** for **new or proposed** impoundments. **NOTE:** See instructions, Pages 40-42, for additional information on the attachments required by Items 3.a – 3.e.

a. Complete the table with the following information for each existing, new, or proposed impoundment. Attach additional copies of the Impoundment Information table, if needed.

Use Designation: Indicate the use designation for each impoundment as Treatment (**T**), Disposal (**D**), Containment (**C**), or Evaporation (**E**).

Associated Outfall Number: Provide an outfall number if a discharge occurs or will occur.

Liner Type: Indicate the liner type as Compacted clay liner (**C**), In-situ clay liner (**I**), Synthetic/plastic/rubber liner (**S**), or Alternate liner (**A**). **NOTE:** See instructions for further

detail on liner specifications. If an alternate liner (A) is selected, include an attachment that provides a description of the alternate liner and any additional technical information necessary for an evaluation.

Leak Detection System: If any leak detection systems are in place/planned, enter **Y** for yes. Otherwise, enter **N** for no.

Groundwater Monitoring Wells and Data: If groundwater monitoring wells are in place/planned, enter **Y** for yes. Otherwise, enter **N** for no. Attach any existing groundwater monitoring data.

Dimensions: Provide the dimensions, freeboard, surface area, storage capacity of the impoundments, and the maximum depth (not including freeboard). For impoundments with irregular shapes, submit surface area instead of length and width.

Compliance with 40 CFR Part 257, Subpart D: If the impoundment is required to be in compliance with 40 CFR Part 257, Subpart D, enter **Y** for yes. Otherwise, enter **N** for no.

Date of Construction: Enter the date construction of the impoundment commenced (mm/dd/yy).

Impoundment Information

Parameter	**Pond #**	**Pond #**	**Pond #**	**Pond #**
Use Designation: (T) (D) (C) or (E)	T	T	C	
Associated Outfall Number	--	--	001	
Liner Type (C) (I) (S) or (A)	S	S	S	
Alt. Liner Attachment Reference	N/A	N/A	N/A	
Leak Detection System, Y/N	Y	Y	Y	
Groundwater Monitoring Wells, Y/N	Y	Y	Y	
Groundwater Monitoring Data Attachment	E	E	E	
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	Y	Y	Y	
Length (ft)	135	135	300	
Width (ft)	110	110	150	
Max Depth From Water Surface (ft), Not Including Freeboard	2	2	1	
Freeboard (ft)	2	2	2	
Surface Area (acres)	.34	.34	1	
Storage Capacity (gallons)	150,000	150,000	730,000	
40 CFR Part 257, Subpart D, Y/N	N	N	N	
Date of Construction	2008	2008	2008	

Attachment: Click to enter text.

The following information (**Items 3.b – 3.e**) is required only for **new or proposed** impoundments.

b. For new or proposed impoundments, attach any available information on the following items. If attached, check **yes** in the appropriate box. Otherwise, check **no** or **not yet designed**.

1. Liner data

   ☐ Yes ☐ No ☐ Not yet designed

2. Leak detection system or groundwater monitoring data

   ☐ Yes ☐ No ☐ Not yet designed

3. Groundwater impacts

   ☐ Yes ☐ No ☐ Not yet designed

   NOTE: Item b.3 is required if the bottom of the pond is not above the seasonal high-water table in the shallowest water-bearing zone.

Attachment: Click to enter text.

For TLAP applications: Items 3.c – 3.e are **not required**, continue to Item 4.

c. Attach a USGS map or a color copy of original quality and scale which accurately locates and identifies all known water supply wells and monitor wells within ½-mile of the impoundments.

Attachment: Click to enter text.

d. Attach copies of State Water Well Reports (e.g., driller's logs, completion data, etc.), and data on depths to groundwater for all known water supply wells including a description of how the depths to groundwater were obtained.

Attachment: Click to enter text.

e. Attach information pertaining to the groundwater, soils, geology, pond liner, etc. used to assess the potential for migration of wastes from the impoundments or the potential for contamination of groundwater or surface water.

Attachment: Click to enter text.

Item 4. Outfall/Disposal Method Information (Instructions, Page 42)

Complete the following tables to describe the location and wastewater discharge or disposal operations for each outfall for discharge, and for each point of disposal for TLAP operations.

If there are more outfalls/points of disposal at the facility than the spaces provided, copies of pages 6 and/0r numbered accordingly (i.e., page 6a, 6b, etc.) may be used to provide information on the additional outfalls.

For TLAP applications: Indicate the disposal method and each individual irrigation area **I**, evaporation pond **E**, or subsurface drainage system **S** by providing the appropriate letter designation for the disposal method followed by a numerical designation for each disposal area in the space provided for **Outfall** number (e.g. **E1** for evaporation pond 1, **I2** for irrigation area No. 2, etc.).

Outfall Longitude and Latitude

Outfall No.	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)
001	32 40 41.31	95 10 51.9

Outfall Location Description

Outfall No.	Location Description
001	Outfall 001 (end-of-pipe discharge to marsh area of Big Sandy Creek)

Description of Sampling Point(s) (if different from Outfall location)

Outfall No.	Description of sampling point
001	Entrance of wetland cell 1 Sampling for E. Coli
001	Evaporative cell at end of wetland 2 sampling of all parameters

Outfall Flow Information – Permitted and Proposed

Outfall No.	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)
001	0.195	0.271	0.25	0.330	--

Outfall Discharge – Method and Measurement

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
001	Y	N	Flow Meter

Outfall Discharge – Flow Characteristics

Outfall No.	Intermittent Discharge? Y/N	Continuous Discharge? Y/N	Seasonal Discharge? Y/N	Discharge Duration (hrs/day)	Discharge Duration (days/mo)	Discharge Duration (mo/yr)
001	Y	N	N	24	31	12

Outfall Wastestream Contributions

Outfall No. 001

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
RO Reject	0.168	50.9
Cooling Water Blowdown	0.0254	7.696
Boiler Blowdown	0.0018	0.5454
Line / Filler Operations	0.05	0.1515
CIP Lines / Chilled Water Loops / Blow Mold	0.0611	18.515
Hose Stations & Spillage	0.0046	1.3939
Carbon Filtration Systems	0.008	2.42
Micro Filtration Systems	0.0101	3.061

Outfall No. Click to enter text.

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow

Outfall No. Click to enter text.

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow

Attachment: Click to enter text.

Item 5. Blowdown and Once-Through Cooling Water Discharges (Instructions, Page 43)

a. Indicate if the facility currently or proposes to:

☒ Yes ☐ No Use cooling towers that discharge blowdown or other wastestreams

☒ Yes ☐ No Use boilers that discharge blowdown or other wastestreams

☐ Yes ☒ No Discharge once-through cooling water

NOTE: If the facility uses or plans to use cooling towers or once-through cooling water, Item 12 **is required**.

b. If **yes** to any of the above, attach an SDS with the following information for each chemical additive.

- Manufacturers Product Identification Number
- Product use (e.g., biocide, fungicide, corrosion inhibitor, etc.)
- Chemical composition including CASRN for each ingredient
- Classify product as non-persistent, persistent, or bioaccumulative
- Product or active ingredient half-life
- Frequency of product use (e.g., 2 hours/day once every two weeks)
- Product toxicity data specific to fish and aquatic invertebrate organisms
- Concentration of whole product or active ingredient, as appropriate, in wastestream.

In addition to each SDS, attach a summary of the above information for each specific wastestream and the associated chemical additives. Specify which outfalls are affected.

Attachment: **Attachment D**

c. Cooling Towers and Boilers

If the facility currently or proposes to use cooling towers or boilers that discharge blowdown or other wastestreams to the outfall(s), complete the following table.

Cooling Towers and Boilers

Type of Unit	Number of Units	Daily Avg Blowdown (gallons/day)	Daily Max Blowdown (gallons/day)
Cooling Towers	4	25,400	
Boilers	1	1,800	

Item 6. Stormwater Management (Instructions, Page 44)

Will any existing/proposed outfalls discharge stormwater associated with industrial activities, as defined at *40 CFR § 122.26(b)(14)*, commingled with any other wastestream?

☐ Yes ☒ No

If **yes**, briefly describe the industrial processes and activities that occur outdoors or in a manner which may result in exposure of the activities or materials to stormwater: Click to enter text.

Item 7. Domestic Sewage, Sewage Sludge, and Septage Management and Disposal (Instructions, Page 44)

Domestic Sewage - Waste and wastewater from humans or household operations that is discharged to a wastewater collection system or otherwise enters a treatment works.

a. Check the box next to the appropriate method of domestic sewage and domestic sewage sludge treatment or disposal. Complete Worksheet 5.0 or Item 7.b if directed to do so.

☐ Domestic sewage is routed (i.e., connected to or transported to) to a WWTP permitted to receive domestic sewage for treatment, disposal, or both. Complete Item 7.b.

☐ Domestic sewage disposed of by an on-site septic tank and drainfield system. Complete Item 7.b.

☐ Domestic and industrial treatment sludge ARE commingled prior to use or disposal.

☐ Industrial wastewater and domestic sewage are treated separately, and the respective sludge IS NOT commingled prior to sludge use or disposal. Complete Worksheet 5.0.

☐ Facility is a POTW. Complete Worksheet 5.0.

☐ Domestic sewage is not generated on-site.

☒ Other (e.g., portable toilets), specify and Complete Item 7.b: Primo Brands operates an on-site sewage facility (OSSF) permit number 10-25-3250 issued by the Wood County Environmental Health Department on November 13, 2012. The OSSF consists of three 1,500-gallon septic tanks in series whose effluent discharges to a constructed sanitary wetland with leach field drain system. The system was originally permitted by Wood County under permit number 04-19-02-250 and modified in November 2012.

b. Provide the name and TCEQ, NPDES, or TPDES Permit No. of the waste-disposal facility which receives the domestic sewage/septage. If hauled by motorized vehicle, provide the name and TCEQ Registration No. of the hauler.

Domestic Sewage Plant/Hauler Name

Plant/Hauler Name	Permit/Registration No.
AAA Sanitation, Inc. (Tyler, TX)	WQ0004551000 / SWR No. 20253

Item 8. Improvements or Compliance/Enforcement Requirements (Instructions, Page 45)

a. Is the permittee currently required to meet any implementation schedule for compliance or enforcement?

☐ Yes ☒ No

b. Has the permittee completed or planned for any improvements or construction projects?

☐ Yes ☒ No

c. If **yes** to either 8.a **or** 8.b, provide a brief summary of the requirements and a status update: Click to enter text.

Item 9. Toxicity Testing (Instructions, Page 45)

Have any biological tests for acute or chronic toxicity been made on any of the discharges or on a receiving water in relation to the discharge within the last three years?

☐ Yes ☒ No

If **yes**, identify the tests and describe their purposes: Click to enter text.

Additionally, attach a copy of all tests performed which **have not** been submitted to the TCEQ or EPA. **Attachment:** Click to enter text.

Item 10. Off-Site/Third Party Wastes (Instructions, Page 45)

a. Does or will the facility receive wastes from off-site sources for treatment at the facility, disposal on-site via land application, or discharge via a permitted outfall?

☐ Yes ☒ No

If **yes**, provide responses to Items 10.b through 10.d below.

If **no**, proceed to Item 11.

b. Attach the following information to the application:

- List of wastes received (including volumes, characterization, and capability with on-site wastes).
- Identify the sources of wastes received (including the legal name and addresses of the generators).
- Description of the relationship of waste source(s) with the facility's activities.

Attachment: Click to enter text.

c. Is or will wastewater from another TCEQ, NPDES, or TPDES permitted facility commingled with this facility's wastewater after final treatment and prior to discharge via the final outfall/point of disposal?

☐ Yes ☐ No

If **yes**, provide the name, address, and TCEQ, NPDES, or TPDES permit number of the contributing facility and a copy of any agreements or contracts relating to this activity.

Attachment: Click to enter text.

d. Is this facility a POTW that accepts/will accept process wastewater from any SIU and has/is required to have an approved pretreatment program under the NPDES/TPDES program?

☐ Yes ☐ No

If **yes**, **Worksheet 6.0** of this application **is required**.

Item 11. Radioactive Materials (Instructions, Page 46)

a. Are/will radioactive materials be mined, used, stored, or processed at this facility?

☐ Yes ☒ No

If **yes**, use the following table to provide the results of one analysis of the effluent for all radioactive materials that may be present. Provide results in pCi/L.

Radioactive Materials Mined, Used, Stored, or Processed

Radioactive Material Name	Concentration (pCi/L)

b. Does the applicant or anyone at the facility have any knowledge or reason to believe that radioactive materials may be present in the discharge, including naturally occurring radioactive materials in the source waters or on the facility property?

☐ Yes ☒ No

If **yes**, use the following table to provide the results of one analysis of the effluent for all radioactive materials that may be present. Provide results in pCi/L. Do not include information provided in response to Item 11.a.

Radioactive Materials Present in the Discharge

Radioactive Material Name	Concentration (pCi/L)

Item 12. Cooling Water (Instructions, Page 46)

a. Does the facility use or propose to use water for cooling purposes?

☒ Yes ☐ No

If **no**, stop here. If **yes**, complete Items 12.b thru 12.f.

b. Cooling water is/will be obtained from a groundwater source (e.g., on-site well).

☒ Yes ☐ No

If **yes**, stop here. If **no**, continue.

c. Cooling Water Supplier

1. Provide the name of the owner(s) and operator(s) for the CWIS that supplies or will supply water for cooling purposes to the facility.

Cooling Water Intake Structure(s) Owner(s) and Operator(s)

CWIS ID				
Owner				
Operator				

2. Cooling water is/will be obtained from a Public Water Supplier (PWS)

   ☐ Yes ☐ No

   If **no**, continue. If **yes**, provide the PWS Registration No. and stop here: PWS No. Click to enter text.

3. Cooling water is/will be obtained from a reclaimed water source?

   ☐ Yes ☐ No

   If **no**, continue. If **yes**, provide the Reuse Authorization No. and stop here: Click to enter text.

4. Cooling water is/will be obtained from an Independent Supplier

   ☐ Yes ☐ No

   If **no**, proceed to Item 12.d. If **yes**, provide the actual intake flow of the Independent Supplier's CWIS that is/will be used to provide water for cooling purposes and proceed: Click to enter text.

d. 316(b) General Criteria

1. The CWIS(s) used to provide water for cooling purposes to the facility has or will have a cumulative design intake flow of 2 MGD or greater.

   ☐ Yes ☐ No

2. At least 25% of the total water withdrawn by the CWIS is/will be used at the facility exclusively for cooling purposes on an annual average basis.

   ☐ Yes ☐ No

3. The CWIS(s) withdraw(s)/propose(s) to withdraw water for cooling purposes from surface waters that meet the definition of Waters of the United States in *40 CFR § 122.2*.

   ☐ Yes ☐ No

   If **no**, provide an explanation of how the waterbody does not meet the definition of Waters of the United States in *40 CFR § 122.2*: Click to enter text.

If **yes** to all three questions in Item 12.d, the facility **meets** the minimum criteria to be subject to the full requirements of Section 316(b) of the CWA. Proceed to **Item 12.f**.

If **no** to any of the questions in Item 12.d, the facility **does not meet** the minimum criteria to be subject to the full requirements of Section 316(b) of the CWA; however, a determination is required based upon BPJ. Proceed to **Item 12.e**.

e. The facility does not meet the minimum requirements to be subject to the fill requirements of Section 316(b) **and uses**/proposes **to use cooling towers**.

   ☐ Yes ☐ No

   If **yes**, stop here. If **no**, complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ.

f. Oil and Gas Exploration and Production

1. The facility is subject to requirements at 40 CFR Part 435, Subparts A or D.

☐ Yes ☐ No

If **yes**, continue. If **no**, skip to Item 12.g.

2. The facility is an existing facility as defined at 40 CFR § 125.92(k) or a new unit at an existing facility as defined at 40 CFR § 125.92(u).

☐ Yes ☐ No

If **yes**, complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ. If **no**, skip to Item 12.g.3.

g. Compliance Phase and Track Selection

1. Phase I – New facility subject to 40 CFR Part 125, Subpart I

☐ Yes ☐ No

If **yes**, check the box next to the compliance track selection, attach the requested information, and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.

☐ Track I – AIF greater than 2 MGD, but less than 10 MGD

- Attach information required by *40 CFR §§ 125.86(b)(2)-(4)*.

☐ Track I – AIF greater than 10 MGD

- Attach information required by *40 CFR § 125.86(b)*.

☐ Track II

- Attach information required by *40 CFR § 125.86(c)*.

Attachment: Click to enter text.

2. Phase II – Existing facility subject to 40 CFR Part 125, Subpart J

☐ Yes ☐ No

If **yes**, complete Worksheets 11.0 through 11.3, as applicable.

3. Phase III – New facility subject to 40 CFR Part 125, Subpart N

☐ Yes ☐ No

If **yes**, check the box next to the compliance track selection and provide the requested information.

☐ Track I – Fixed facility

- Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.

☐ Track I – Not a fixed facility

- Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Item 2 (except CWIS latitude/longitude under Item 2.a).

☐ Track II – Fixed facility

- Attach information required by 40 CFR § 125.136(c) and complete Worksheet 11.0, Items 2 and 3.

Attachment: Click to enter text.

Item 13. Permit Change Requests (Instructions, Page 48)

This item is only applicable to existing permitted facilities.

a. Is the facility requesting a **major amendment** of an existing permit?

☒ Yes ☐ No

If **yes**, list each request individually and provide the following information: 1) detailed information regarding the scope of each request and 2) a justification for each request. Attach any supplemental information or additional data to support each request.

Request increase in wastewater discharge flow for 2 additional bottling lines. The additional production capacity produces additional wastewater discharge. The maximum and average daily flow request is 0.33 and 0.25 MGD, respectively. The existing permitted Max and Average Daily flow is 0.271 and 0.195 MGD, respectively.

b. Is the facility requesting any **minor amendments** to the permit?

☐ Yes ☒ No

If **yes**, list and describe each change individually.

Click to enter text.

c. Is the facility requesting any **minor modifications** to the permit?

☐ Yes ☒ No

If **yes**, list and describe each change individually.

Click to enter text.

Item 14. Laboratory Accreditation (Instructions, Page 49)

All laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*, which includes the following general exemptions from National Environmental Laboratory Accreditation Program (NELAP) certification requirements:

- The laboratory is an in-house laboratory and is:
  - periodically inspected by the TCEQ; or
  - located in another state and is accredited or inspected by that state; or
  - performing work for another company with a unit located in the same site; or
  - performing pro bono work for a governmental agency or charitable organization.
- The laboratory is accredited under federal law.
- The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review *30 TAC Chapter 25* for specific requirements.

The following certification statement shall be signed and submitted with every application. See the *Signature Page* section in the Instructions, for a list of designated representatives who may sign the certification.

CERTIFICATION:

I certify that all laboratory tests submitted with this application meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.*

Printed Name: Sam Gordon

Title: Vice President, Regional T&P

Signature: _____

Date: _____

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: POLLUTANT ANALYSIS

Worksheet 2.0 **is required** for all applications submitted for a TPDES permit. Worksheet 2.0 is not required for applications for a permit to dispose of all wastewater by land disposal or for discharges solely of stormwater associated with industrial activities.

Item 1. General Testing Requirements (Instructions, Page 55)

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): 3/6/25; 3/13/25; 3/20/25; 3/27/25

b. ☒ Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.

c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. **Attachment:** Attachment E

Item 2. Specific Testing Requirements (Instructions, Page 56)

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. **Attachment:** Attachment E

TABLE 1 and TABLE 2 (Instructions, Page 58)

Completion of Tables 1 and 2 is required for all external outfalls for all TPDES permit applications.

Table 1 for Outfall No.: 001 **Samples are (check one): ☒ Composite ☐ Grab**

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	3.92	4.43	8.28	4.15
CBOD (5-day)	2.27	5.63	5.36	ND
Chemical oxygen demand	ND	ND	ND	ND
Total organic carbon	2.95	3.15	2.42	1.14
Dissolved oxygen	11	11	11	8.8
Ammonia nitrogen	ND	ND	ND	ND
Total suspended solids	2.10	2.5	9.0	ND
Nitrate nitrogen	1.77	0.427	1.12	1.05
Total organic nitrogen	0.251	1.89	0.939	0.404
Total phosphorus	0.367	0.358	0.475	0.217
Oil and grease	ND	ND	ND	ND

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Total residual chlorine	-	-	-	-
Total dissolved solids	88	130	144	100
Sulfate	10.8	14.2	25.9	14.1
Chloride	11.1	16.8	20.9	22.6
Fluoride	ND	ND	ND	ND
Total alkalinity (mg/L as CaCO3)	52.2	47.6	45.3	53.2
Temperature (°F)	60	64	55	69
pH (standard units)	8.0	7.72	7.62	7.38

Table 2 for Outfall No.: 001 **Samples are (check one): ☒ Composite ☐ Grab**

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total	0.0222	0.0317	0.0732	0.0118	2.5
Antimony, total	ND	ND	ND	ND	5
Arsenic, total	ND	ND	ND	ND	0.5
Barium, total	0.0585	0.0962	0.108	0.102	3
Beryllium, total	ND	ND	ND	ND	0.5
Cadmium, total	ND	ND	ND	ND	1
Chromium, total	0.00118	0.00249	ND	ND	3
Chromium, hexavalent	ND	ND	ND	ND	3
Chromium, trivalent	ND	ND	ND	ND	N/A
Copper, total	0.00762	0.00676	0.00941	0.00452	2
Cyanide, available	ND	ND	ND	ND	2/10
Lead, total	ND	ND	ND	ND	0.5
Mercury, total	ND	ND	ND	ND	0.005/0.0005
Nickel, total	0.0014	0.00195	0.003	0.00221	2
Selenium, total	ND	ND	ND	ND	5
Silver, total	ND	ND	ND	ND	0.5
Thallium, total	ND	ND	ND	ND	0.5
Zinc, total	0.0308	0.0281	0.0423	0.0184	5.0

TABLE 3 (Instructions, Page 58)

Completion of Table 3 **is required** for all **external outfalls** which discharge process wastewater.

Partial completion of Table 3 **is required** for all **external outfalls** which discharge non-process wastewater and stormwater associated with industrial activities commingled with other wastestreams (see instructions for additional guidance).

Table 3 for Outfall No.: 001 **Samples are (check one): ☒ Composite ☒ Grab**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile	ND	ND	ND	ND	50
Anthracene	ND	ND	ND	ND	10
Benzene	ND	ND	ND	ND	10
Benzidine	ND	ND	ND	ND	50
Benzo(a)anthracene	ND	ND	ND	ND	5
Benzo(a)pyrene	ND	ND	ND	ND	5
Bis(2-chloroethyl)ether	ND	ND	ND	ND	10
Bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	10
Bromodichloromethane [Dichlorobromomethane]	ND	ND	ND	ND	10
Bromoform	ND	ND	ND	ND	10
Carbon tetrachloride	ND	ND	ND	ND	2
Chlorobenzene	ND	ND	ND	ND	10
Chlorodibromomethane [Dibromochloromethane]	ND	ND	ND	ND	10
Chloroform	ND	ND	ND	ND	10
Chrysene	ND	ND	ND	ND	5
m-Cresol [3-Methylphenol]	ND	ND	ND	ND	10
o-Cresol [2-Methylphenol]	ND	ND	ND	ND	10
p-Cresol [4-Methylphenol]	ND	ND	ND	ND	10
1,2-Dibromoethane	ND	ND	ND	ND	10
m-Dichlorobenzene [1,3-Dichlorobenzene]	ND	ND	ND	ND	10
o-Dichlorobenzene [1,2-Dichlorobenzene]	ND	ND	ND	ND	10
p-Dichlorobenzene [1,4-Dichlorobenzene]	ND	ND	ND	ND	10
3,3'-Dichlorobenzidine	ND	ND	ND	ND	5
1,2-Dichloroethane	<1.0	<1.0	<1.0		10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
1,1-Dichloroethene [1,1-Dichloroethylene]	ND	ND	ND	ND	10
Dichloromethane [Methylene chloride]	ND	ND	ND	ND	20
1,2-Dichloropropane	ND	ND	ND	ND	10
1,3-Dichloropropene [1,3-Dichloropropylene]	ND	ND	ND	ND	10
2,4-Dimethylphenol	ND	ND	ND	ND	10
Di-n-Butyl phthalate	ND	ND	ND	ND	10
Ethylbenzene	ND	ND	ND	ND	10
Fluoride	ND	ND	ND	ND	500
Hexachlorobenzene	ND	ND	ND	ND	5
Hexachlorobutadiene	ND	ND	ND	ND	10
Hexachlorocyclopentadiene	ND	ND	ND	ND	10
Hexachloroethane	ND	ND	ND	ND	20
Methyl ethyl ketone	ND	ND	ND	ND	50
Nitrobenzene	ND	ND	ND	ND	10
N-Nitrosodiethylamine	ND	ND	ND	ND	20
N-Nitroso-di-n-butylamine	ND	ND	ND	ND	20
Nonylphenol	ND	ND	ND	ND	333
Pentachlorobenzene	ND	ND	ND	ND	20
Pentachlorophenol	ND	ND	ND	ND	5
Phenanthrene	ND	ND	ND	ND	10
Polychlorinated biphenyls (PCBs) (**)	ND	ND	ND	ND	0.2
Pyridine	ND	ND	ND	ND	20
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	ND	20
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	10
Tetrachloroethene [Tetrachloroethylene]	ND	ND	ND	ND	10
Toluene	ND	ND	ND	ND	10
1,1,1-Trichloroethane	ND	ND	ND	ND	10
1,1,2-Trichloroethane	ND	ND	ND	ND	10
Trichloroethene [Trichloroethylene]	ND	ND	ND	ND	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
2,4,5-Trichlorophenol	ND	ND	ND	ND	50
TTHM (Total trihalomethanes)	ND	ND	ND	ND	10
Vinyl chloride	ND	ND	ND	ND	10

(*) Indicate units if different from µg/L.

(**) Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, and PCB-1016. If all non-detects, enter the highest non-detect preceded by a "<".

TABLE 4 (Instructions, Pages 58-59)

Partial completion of Table 4 **is required** for each **external outfall** based on the conditions below.

a. **Tributyltin**

Is this facility an industrial/commercial facility which currently or proposes to directly dispose of wastewater from the types of operations listed below or a domestic facility which currently or proposes to receive wastewater from the types of industrial/commercial operations listed below?

☐ Yes ☒ No

If **yes**, check the box next to each of the following criteria which apply and provide the appropriate testing results in Table 4 below (check all that apply).

☐ Manufacturers and formulators of tributyltin or related compounds.

☐ Painting of ships, boats and marine structures.

☐ Ship and boat building and repairing.

☐ Ship and boat cleaning, salvage, wrecking and scaling.

☐ Operation and maintenance of marine cargo handling facilities and marinas.

☐ Facilities engaged in wood preserving.

☐ Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. **Enterococci (discharge to saltwater)**

This facility discharges/proposes to discharge directly into saltwater receiving waters **and** Enterococci bacteria are expected to be present in the discharge based on facility processes.

☐ Yes ☒ No

Domestic wastewater is/will be discharged.

☐ Yes ☒ No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

c. E. coli (discharge to freshwater)

This facility discharges/proposes to discharge directly into freshwater receiving waters **and** *E. coli* bacteria are expected to be present in the discharge based on facility processes.

☐ Yes ☒ No

Domestic wastewater is/will be discharged.

☐ Yes ☒ No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

Table 4 for Outfall No.: 001 **Samples are (check one): ☐ Composite ☒ Grab**

Pollutant	Sample 1	Sample 2	Sample 3	Sample 4	MAL
Tributyltin (µg/L)	N/A	N/A	N/A	N/A	0.010
Enterococci (cfu or MPN/100 mL)	N/A	N/A	N/A	N/A	N/A
E. coli (cfu or MPN/100 mL)	2.0	6.3	9.7	3.1	N/A

TABLE 5 (Instructions, Page 59)

Completion of Table 5 **is required** for all **external outfalls** which discharge process wastewater from a facility which manufactures or formulates pesticides or herbicides or other wastewaters which may contain pesticides or herbicides.

If this facility does not/will not manufacture or formulate pesticides or herbicides and does not/will not discharge other wastewaters that may contain pesticides or herbicides, check N/A.

☒ N/A

Table 5 for Outfall No.: Click to enter text. **Samples are (check one): ☐ Composite ☐ Grab**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

* Indicate units if different from µg/L.

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: RECEIVING WATERS

This worksheet **is required** for all TPDES permit applications.

Item 1. Domestic Drinking Water Supply (Instructions, Page 80)

a. There is a surface water intake for domestic drinking water supply located within 5 (five) miles downstream from the point/proposed point of discharge.

☐ Yes ☒ No

If **no**, stop here and proceed to Item 2. If **yes**, provide the following information:

1. The legal name of the owner of the drinking water supply intake: Click to enter text.
2. The distance and direction from the outfall to the drinking water supply intake: Click to enter text.

b. Locate and identify the intake on the USGS 7.5-minute topographic map provided for Administrative Report 1.0.

☐ Check this box to confirm the above requested information is provided.

Item 2. Discharge Into Tidally Influenced Waters (Instructions, Page 80)

If the discharge is to tidally influenced waters, complete this section. Otherwise, proceed to Item 3.

a. Width of the receiving water at the outfall: Click to enter text. feet

b. Are there oyster reefs in the vicinity of the discharge?

☐ Yes ☐ No

If **yes**, provide the distance and direction from the outfall(s) to the oyster reefs: Click to enter text.

c. Are there sea grasses within the vicinity of the point of discharge?

☐ Yes ☐ No

If **yes**, provide the distance and direction from the outfall(s) to the grasses: Click to enter text.

Item 3. Classified Segment (Instructions, Page 80)

The discharge is/will be directly into (or within 300 feet of) a classified segment.

☒ Yes ☐ No

If **yes**, stop here and do not complete Items 4 and 5 of this worksheet or Worksheet 4.1.

If **no**, complete Items 4 and 5 and Worksheet 4.1 may be required.

Item 4. Description of Immediate Receiving Waters (Instructions, Page 80)

a. Name of the immediate receiving waters: Click to enter text.

b. Check the appropriate description of the immediate receiving waters:

☐ Lake or Pond

- Surface area (acres): Click to enter text.
- Average depth of the entire water body (feet): Click to enter text.
- Average depth of water body within a 500-foot radius of the discharge point (feet): Click to enter text.

☐ Man-Made Channel or Ditch

☐ Stream or Creek

☐ Freshwater Swamp or Marsh

☐ Tidal Stream, Bayou, or Marsh

☐ Open Bay

☐ Other, specify:

If **Man-Made Channel or Ditch** or **Stream or Creek** were selected above, provide responses to Items 4.c – 4.g below:

c. For **existing discharges**, check the description below that best characterizes the area **upstream** of the discharge.

For **new discharges**, check the description below that best characterizes the area **downstream** of the discharge.

☐ Intermittent (dry for at least one week during most years)

☐ Intermittent with Perennial Pools (enduring pools containing habitat to maintain aquatic life uses)

☐ Perennial (normally flowing)

Check the source(s) of the information used to characterize the area upstream (existing discharge) or downstream (new discharge):

☐ USGS flow records

☐ personal observation

☐ historical observation by adjacent landowner(s)

☐ other, specify: Click to enter text.

d. List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point: Click to enter text.

e. The receiving water characteristics change within three miles downstream of the discharge (e.g., natural or man-made dams, ponds, reservoirs, etc.).

☐ Yes ☐ No

If **yes**, describe how: Click to enter text.

f. General observations of the water body during normal dry weather conditions: Click to enter text.

Date and time of observation: Click to enter text.

g. The water body was influenced by stormwater runoff during observations.

☐ Yes ☐ No

If **yes**, describe how: Click to enter text.

Item 5. General Characteristics of Water Body (Instructions, Page 81)

a. Is the receiving water upstream of the existing discharge or proposed discharge site influenced by any of the following (check all that apply):

☐ oil field activities
☐ agricultural runoff
☐ upstream discharges
☐ urban runoff
☐ septic tanks
☐ other, specify: Click to enter text.

b. Uses of water body observed or evidence of such uses (check all that apply):

☐ livestock watering
☐ non-contact recreation
☐ domestic water supply
☐ contact recreation
☐ fishing
☐ industrial water supply
☐ irrigation withdrawal
☐ navigation
☐ picnic/park activities
☐ other, specify: Click to enter text.

c. Description which best describes the aesthetics of the receiving water and the surrounding area (check only one):

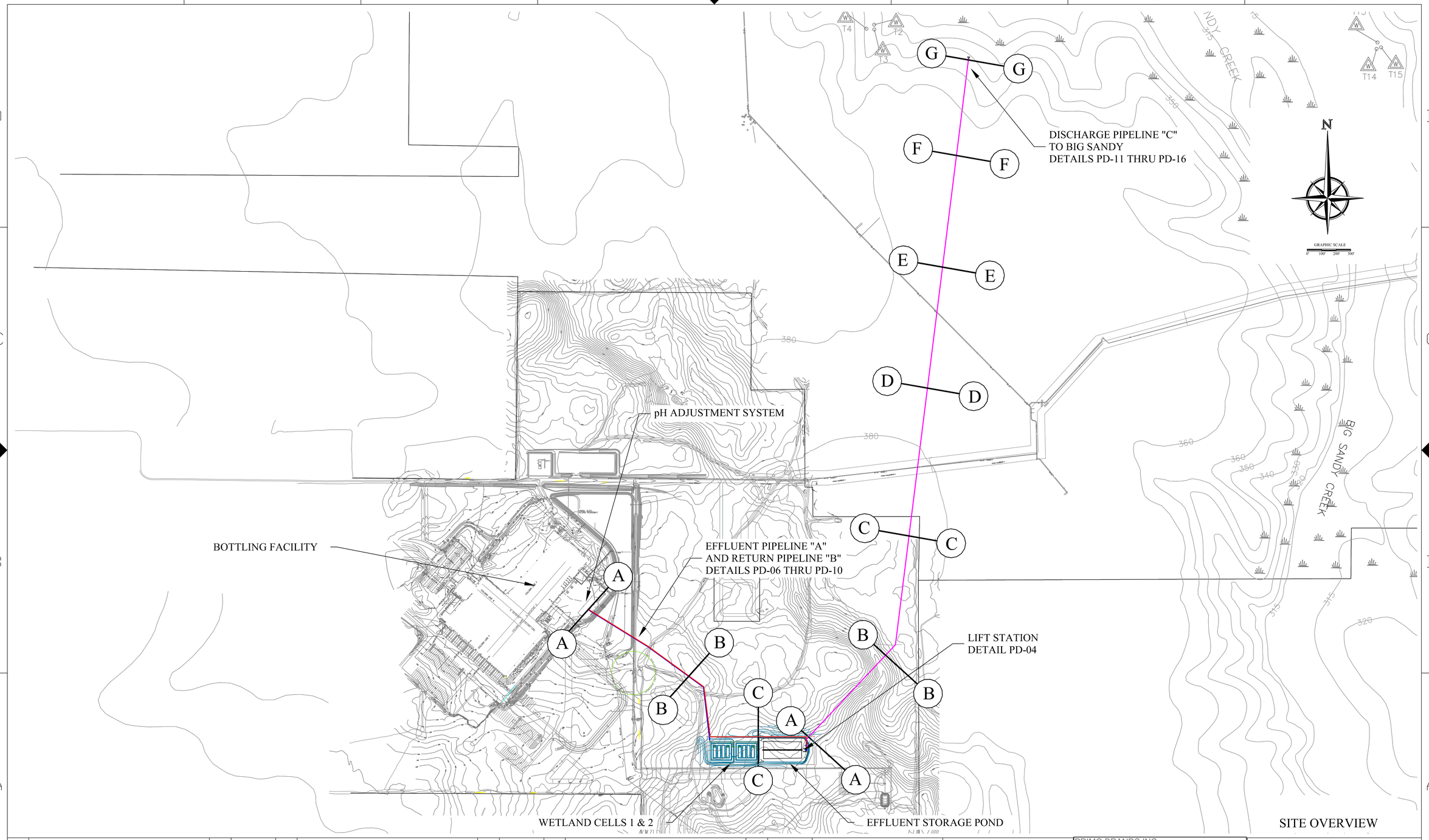
☐ **Wilderness:** outstanding natural beauty; usually wooded or un-pastured area: water clarity exceptional

☐ **Natural Area:** trees or native vegetation common; some development evident (from fields, pastures, dwellings); water clarity discolored

☐ **Common Setting:** not offensive, developed but uncluttered; water may be colored or turbid

☐ **Offensive:** stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

Design Calculations were not required as part of the TPDES permit



SITE OVERVIEW

REV.	REVISION DESCRIPTION	DRN.	REV. DATE
G	INFORMATION ONLY – TPDES RENEWAL APPLICATION	JBB	01–2011
F	AS BUILT	JBB	08–29–08
E	ISSUED FOR CONSTRUCTION	JBB	12–21–07
D	ISSUED FOR FINAL REVIEW	JBB	10/23/07
C	ISSUED FOR PERMITTING	JBB	10–16–06
B	ADDED INSPECTION PORTAL	JBB	09–05–06
A	DRAFT – INITIAL RELEASE	JBB	08–11–06

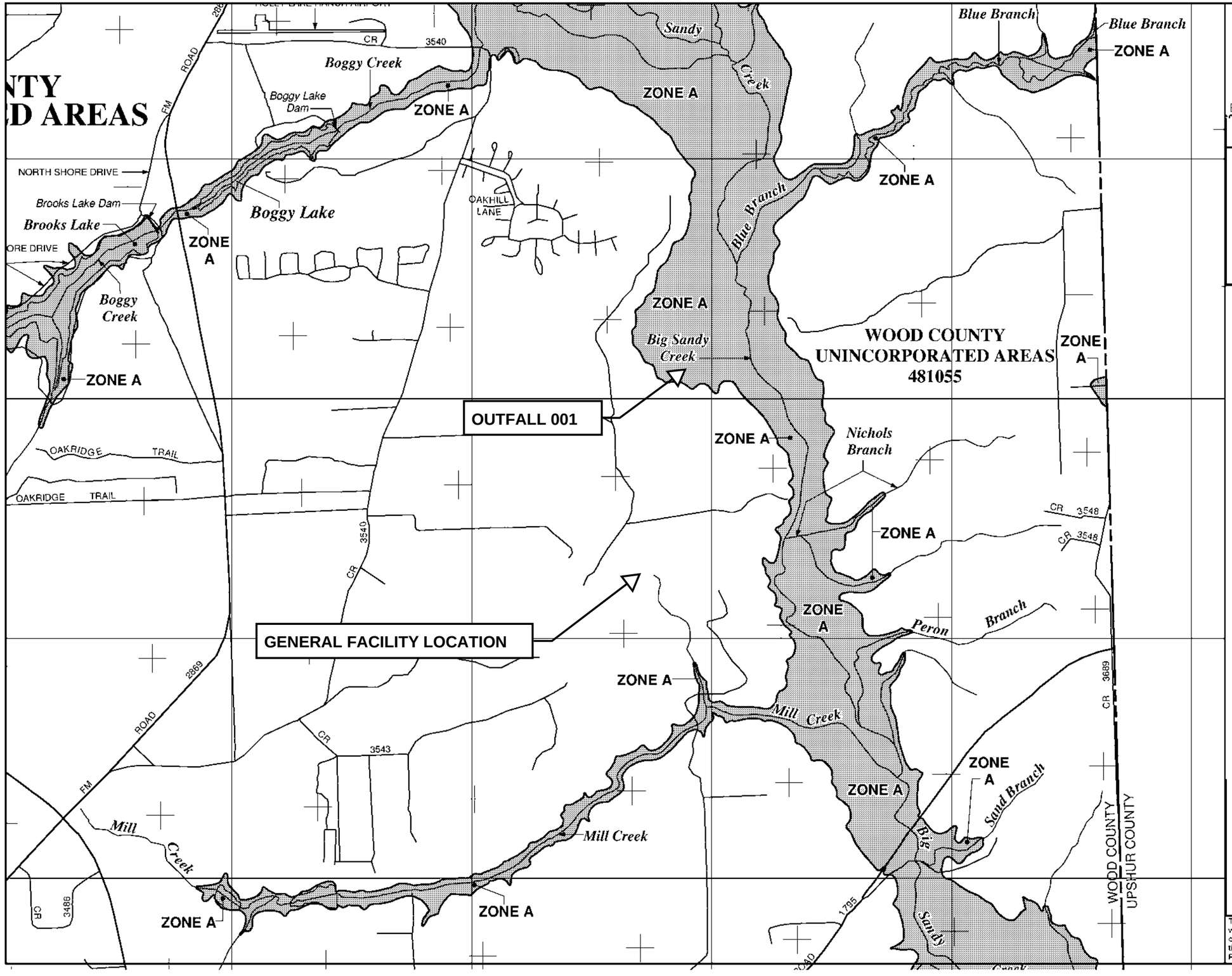
DRAWN: JBB | DESIGN FIRM CONTROL NO.: TITAN

PRIMO BRANDS INC
WOOD COUNTY BOTTLING PLANT
HAWKINS, WOOD COUNTY, TEXAS

UTILITY SYSTEMS
SITE OVERVIEW
GENERAL REFERENCE

DATE: 08–16–07 | D.M.: S. LOLLING | SCALE: 1" = 300'

SIZE: D | SHEET NO.: WF07–GR–05 | REV. NO.: G



PANEL 0400C

FIRM

FLOOD INSURANCE RATE MAP

WOOD COUNTY,

TEXAS

AND INCORPORATED AREAS

PANEL 400 OF 500

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
WOOD COUNTY	481055	0400	C

Notice to User. The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
48499C0400C

EFFECTIVE DATE
SEPTEMBER 3, 2010

Federal Emergency Management Agency

NATIONAL FLOOD INSURANCE PROGRAM

FEMA PANEL
TPDES Renewal Application
Primo Brands
Wood County Bottling Plant
Wood County, Texas

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

ATTACHMENT D

CHEMICAL ADDITIVES

MATERIAL SAFETY DATA SHEETS

ATTACHMENT D
Primo Brands TPDES Permit Renewal Application

Chemical Additive Data Summary

Technical Report 1.0 Section 5

Manufacturers PIN	*Specific Wastestream*	*Product Use*	*Composition*	*CAS Number*	*Persistent, NonPersistent or Bioaccumulative*	*Frequency*	*Approx Monthly Usage (lb)*
GE STEAMATE FM1000	Boiler System	Corrosion Inhibitor	No hazardous substances (as defined by OSHA)	---	Non Persistent	Daily	5
GE CORTROL IS104	Boiler System	Boiler Oxygen Scavenger	Potassium sulfite	10117-38-1	Non Persistent	Daily	6
GE OPTISPERSE AP302	Boiler System	Scale Inhibitor	No Hazardous Substances (as defined by OSHA)	---	Non Persistent	Daily	2-4
GE GENGARD GN8206	Cooling Tower System	Scale Inhibitor	Sodium Hydroxide	1310-73-2	Non Persistent	Daily	110
			Chlorotolytriazole Sodium Salt	202420-04-0			
GE GENGARD GN7300	Cooling Tower System	Corrosion inhibitor	Phosphoric Acid	7664-38-2	Non Persistent	Daily	18
GE SPECTRUS NX1100	Cooling Tower System AND Closed Loop Chiller/Cooling Systems	Non-ox Biocide	2-Bromo-2-nitropropane-1,3-diol (Bronopol)	52-51-7	Non Persistent	Semi-Monthly	75
			Magnesium nitrate	10377-60-3			
			Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)	55965-84-9			
			Magnesium chloride	7786-30-3			
			Sulphuric acid	7664-93-9			
GE CORRSHIELD NT4207	Closed Loop Chiller/Cooling Systems	Corrosion/Scale Inhibitor	Sodium Nitrate	7632-00-0	Non Persistent	When needed	20
			Boric Acid, Disodium Salt, Penthydrate	12179-04-3			
GE BETZ MPH5000	Closed Loop - No Discharge	pH Control	Citric Acid	77-92-9	Non Persistent	Monthly	50
GE HYPERSPERSE MDC220	RO System	Antiscalant	Phophonic Acid	29329-71-3	Non Persistent	Daily	215
GE FLOGARD POT807	Utility/Potable Water System	Corrosion Inhibitor	Phosphoric Acid, tripotassium Salt	7778-53-2	Non Persistent	Daily	205
			Tetrapotassium pyrophosphate	7320-34-5			
Caustic - Commodity	Utility/Potable Water System	pH control	Sodium Hydroxide	1310-73-2	Non Persistent	Daily	---
Sodium Hypochlorite - Commodity	Utility/Potable Water System	Oxidizing Biocide	Sodium Hydroxide	7681-52-9	Non Persistent	Daily	---

GE
Water & Process Technologies

Material Safety Data Sheet

Issue Date: 10-FEB-2012
Supercedes: 05-OCT-2011

STEAMATE FM1000

1 Identification

Identification of substance or preparation
STEAMATE FM1000

Product Application Area
Steam condensate treatment.

Company/Undertaking Identification
GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355-3300, F 215 953 5524

Emergency Telephone
(800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300 Prepared on: 10-FEB-2012

2 Hazard(s) identification

****
EMERGENCY OVERVIEW

CAUTION

May cause slight irritation to the skin. May cause slight irritation to the eyes. Vapors, gases, mists and/or aerosols may cause irritation to upper respiratory tract.

DOT hazard is not applicable
Odor: Slight; Appearance: Off-White, Emulsion

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water
****

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:
Primary route of exposure; May cause slight irritation to the skin.

ACUTE EYE EFFECTS:
May cause slight irritation to the eyes.

ACUTE RESPIRATORY EFFECTS:
Vapors, gases, mists and/or aerosols may cause irritation to upper respiratory tract.

INGESTION EFFECTS:
May cause slight gastrointestinal irritation.

TARGET ORGANS:
No evidence of potential chronic effects.

MEDICAL CONDITIONS AGGRAVATED:
Not known.

SYMPTOMS OF EXPOSURE:
May cause redness or itching of skin.

3 Composition / information on ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

This product is not hazardous as defined by OSHA regulations.

No component is considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration at OSHA thresholds for carcinogens.

4 First-aid measures

SKIN CONTACT:
Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. Get medical attention if irritation develops or persists.

EYE CONTACT:
Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

INHALATION:
Remove to fresh air. Get medical attention if cough or other symptoms develop.

INGESTION:
Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 2-8 fluid ounces (60-240 mL) of milk or water.

NOTES TO PHYSICIANS:
No special instructions

5 Fire-fighting measures

FIRE FIGHTING INSTRUCTIONS:
Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
EXTINGUISHING MEDIA:
dry chemical, carbon dioxide, foam or water
HAZARDOUS DECOMPOSITION PRODUCTS:
oxides of carbon
FLASH POINT:
> 200F > 93C P-M(CC)

6 Accidental release measures

PROTECTION AND SPILL CONTAINMENT:
Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.
DISPOSAL INSTRUCTIONS:
Water contaminated with this product may be sent to a sanitary sewer treatment facility,in accordance with any local agreement,a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7 Handling and storage

HANDLING:
Normal chemical handling.
STORAGE:
Keep containers closed when not in use. Protect from freezing. Shelf life 135 days.

8 Exposure controls / personal protection

EXPOSURE LIMITS

This product is not hazardous as defined by OSHA regulations.

ENGINEERING CONTROLS:
adequate ventilation
PERSONAL PROTECTIVE EQUIPMENT:
Use protective equipment in accordance with 29CFR 1910 Subpart I
RESPIRATORY PROTECTION:
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.
USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.
If air-purifying respirator use is appropriate, use any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.
SKIN PROTECTION:
rubber, butyl or viton gloves -- Wash off after each use. Replace as necessary.
EYE PROTECTION:
splash proof chemical goggles

9 Physical and chemical properties

Spec. Grav.(70F,21C)	1.010	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	~ 30	Vapor Density (air=1)	< 1.00
Freeze Point (C)	~ -1		
Viscosity(cps 70F,21C)	176	% Solubility (water)	100.0

Odor		Slight
Appearance		Off-White
Physical State		Emulsion
Flash Point	P-M(CC)	> 200F > 93C
pH As Is (approx.)		6.2
Evaporation Rate (Ether=1)		< 1.00
Percent VOC:		ND

NA = not applicable ND = not determined

10 Stability and reactivity

CHEMICAL STABILITY:
Stable under normal storage conditions.
POSSIBILITY OF HAZARDOUS REACTIONS:
No known hazardous reactions.
INCOMPATIBILITIES:
May react with strong oxidizers.
DECOMPOSITION PRODUCTS:
oxides of carbon

11 Toxicological information

Oral LD50 RAT: >5000 mg/kg
NOTE - Calculated value according to GHS additivity formula
Dermal LD50 RABBIT: >5000 mg/kg
NOTE - Calculated value according to GHS additivity formula

12 Ecological information

AQUATIC TOXICOLOGY
Daphnia magna 48 Hour Static Renewal Bioassay
LC50= 155; No Effect Level= 31.3 mg/L
Fathead Minnow 96 Hour Static Renewal Bioassay
LC50= 67; No Effect Level= 31.3 mg/L

BIODEGRADATION
BOD-28 (mg/g): 92
BOD-5 (mg/g): 48
COD (mg/g): 236
TOC (mg/g): 59

13 Disposal considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14 Transport information

Transportation Hazard: Not Applicable
DOT: Not Regulated

DOT EMERGENCY RESPONSE GUIDE #: Not applicable
Note: Some containers may be DOT exempt, please check BOL for exact container classification
IATA: Not Regulated

IMDG: Not Regulated

15 Regulatory information

TSCA:
All components of this product are included on or are in compliance with the U.S. TSCA regulations.
CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):
No regulated constituent present at OSHA thresholds
FOOD AND DRUG ADMINISTRATION:
The ingredients in this product are approved by FDA for use in boilers where the steam may contact food.
NSF Registered and/or meets USDA (according to 1998 Guidelines):
Registration number: 141001
Category Code(s):
G6 Boiler treatment products - all food processing areas/food contact
G5 Cooling and retort water treatment products - all food processing areas
SARA SECTION 312 HAZARD CLASS:
Product is non-hazardous under Section 311/312
SARA SECTION 302 CHEMICALS:
No regulated constituent present at OSHA thresholds
SARA SECTION 313 CHEMICALS:
No regulated constituent present at OSHA thresholds
CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):
No regulated constituents present
MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16 Other information

HMIS vII		CODE TRANSLATION
Health	1	Slight Hazard
Fire	1	Slight Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles,Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	29-JAN-1997		** NEW **
	07-DEC-1999	15	29-JAN-1997
	04-APR-2000	15	07-DEC-1999
	08-MAY-2000	4,7	04-APR-2000
	23-MAY-2000	15	08-MAY-2000
	25-OCT-2000	15	23-MAY-2000
	28-NOV-2000	15	25-OCT-2000
	03-DEC-2001	12	28-NOV-2000
	13-DEC-2001	12	03-DEC-2001
	03-MAY-2005	16	13-DEC-2001
	18-APR-2006	7	03-MAY-2005
	26-MAR-2009	5,8,10	18-APR-2006
	15-MAY-2009	15	26-MAR-2009
	17-JUN-2009	15	15-MAY-2009
	05-OCT-2011	11	17-JUN-2009
	10-FEB-2012	1,16	05-OCT-2011

GE
Water & Process Technologies

Material Safety Data Sheet

Issue Date: 09-JUN-2011
Supercedes: 18-JUN-2009

CORTROL IS104

1 Identification

Identification of substance or preparation
CORTROL IS104

Product Application Area
Oxygen scavenger.

Company/Undertaking Identification
GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355-3300, F 215 953 5524

Emergency Telephone
(800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300 Prepared on: 09-JUN-2011

2 Hazard(s) identification

****
EMERGENCY OVERVIEW

WARNING

May cause moderate irritation to the skin. Potential skin sensitizer. May cause moderate irritation to the eyes. May cause irritation to mucous membranes. Repeated exposure may result in respiratory sensitization.

DOT hazard is not applicable
Odor: Slight; Appearance: Colorless To Light Yellow, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water
****

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:
Primary route of exposure; May cause moderate irritation to the skin. Potential skin sensitizer.

ACUTE EYE EFFECTS:
May cause moderate irritation to the eyes.

ACUTE RESPIRATORY EFFECTS:

Primary route of exposure;May cause irritation to mucous membranes. Repeated exposure may result in respiratory sensitization.

INGESTION EFFECTS:
May cause gastrointestinal irritation with possible nausea, vomiting, abdominal discomfort and diarrhea.

TARGET ORGANS:
Prolonged or repeated exposures may cause primary irritant dermatitis and/or allergic respiratory reactions.

MEDICAL CONDITIONS AGGRAVATED:
Asthma.

SYMPTOMS OF EXPOSURE:
May cause local irritation or a sensitization reaction upon direct contact with skin or respiratory tract.

3 Composition / information on ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

Cas#	Chemical Name	Range(w/w%)
10117-38-1	POTASSIUM SULFITE Transient irritant; potential sensitizer (skin and respiratory)	40-70

4 First-aid measures

SKIN CONTACT:
Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. Get medical attention if irritation develops or persists.

EYE CONTACT:
Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

INHALATION:
If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.

INGESTION:
Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 2-8 fluid ounces (60-240 mL) of milk or water.

NOTES TO PHYSICIANS:
No special instructions

5 Fire-fighting measures

FIRE FIGHTING INSTRUCTIONS:
Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
EXTINGUISHING MEDIA:
dry chemical, carbon dioxide, foam or water
HAZARDOUS DECOMPOSITION PRODUCTS:
oxides of sulfur
FLASH POINT:
> 200F > 93C P-M(CC)

6 Accidental release measures

PROTECTION AND SPILL CONTAINMENT:
Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.
DISPOSAL INSTRUCTIONS:
Water contaminated with this product may be sent to a sanitary sewer treatment facility,in accordance with any local agreement,a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7 Handling and storage

HANDLING:
Normal chemical handling.
STORAGE:
Keep containers closed when not in use. Protect from freezing. Preferably stored between 40-100F (5-38C).

8 Exposure controls / personal protection

EXPOSURE LIMITS

CHEMICAL NAME

POTASSIUM SULFITE
PEL (OSHA): LIMITS HAVE NOT BEEN ESTABLISHED BY US OSHA.
TLV (ACGIH): LIMITS HAVE NOT BEEN ESTABLISHED BY ACGIH.

ENGINEERING CONTROLS:
adequate ventilation
PERSONAL PROTECTIVE EQUIPMENT:
Use protective equipment in accordance with 29CFR 1910 Subpart I
RESPIRATORY PROTECTION:
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.
USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.
If air-purifying respirator use is appropriate, use any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.
SKIN PROTECTION:
neoprene gloves-- Wash off after each use. Replace as

necessary.

EYE PROTECTION:

splash proof chemical goggles

9 Physical and chemical properties

Spec. Grav.(70F,21C)	1.462	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	< -30	Vapor Density (air=1)	< 1.00
Freeze Point (C)	< -34		
Viscosity(cps 70F,21C)	7	% Solubility (water)	100.0

Odor		Slight
Appearance		Colorless To Light Yellow
Physical State		Liquid
Flash Point	P-M(CC)	> 200F > 93C
pH As Is (approx.)		9.7
Evaporation Rate (Ether=1)		< 1.00
Percent VOC:		0.0

NA = not applicable ND = not determined

10 Stability and reactivity

CHEMICAL STABILITY:

Stable under normal storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

Contact with water reactive compounds may cause fire or explosion.

INCOMPATIBILITIES:

May react with strong oxidizers.

DECOMPOSITION PRODUCTS:

oxides of sulfur

11 Toxicological information

Oral LD50 RAT:	>1,000 mg/kg
NOTE - Estimated value	
Dermal LD50 RABBIT:	>2,000 mg/kg
NOTE - Estimated value	

12 Ecological information

AQUATIC TOXICOLOGY

Daphnia magna 48 Hour Static Screen
50% Mortality= 2000; 0% Mortality= 1000 mg/L
Fathead Minnow 96 Hour Static Renewal Bioassay
LC50= 1760; No Effect Level= 1250 mg/L

BIODEGRADATION

Product contains only inorganics that are not subject to typical biological degradation. Assimilation by microbes may occur in waste treatment or the environment.

13 Disposal considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14 Transport information

Transportation Hazard: Not Applicable
DOT: Not Regulated

DOT EMERGENCY RESPONSE GUIDE #: Not applicable
Note: Some containers may be DOT exempt, please check BOL for exact container classification
IATA: Not Regulated

IMDG: Not Regulated

15 Regulatory information

TSCA:
All components of this product are included on or are in compliance with the U.S. TSCA regulations.
CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):
No regulated constituent present at OSHA thresholds
FOOD AND DRUG ADMINISTRATION:
ALL ingredients in this product are authorized in 21CFR173.310 for use as boiler water additives where the steam may contact food.
NSF Registered and/or meets USDA (according to 1998 Guidelines):
Registration number: 141466
Category Code(s):
G8 Cooling and retort water treatment products - all food processing areas except meat and poultry
G9 Boiler treatment products - all food processing areas except meat and poultry/food contact
SARA SECTION 312 HAZARD CLASS:
Immediate(acute);Delayed(Chronic)
SARA SECTION 302 CHEMICALS:
No regulated constituent present at OSHA thresholds
SARA SECTION 313 CHEMICALS:
No regulated constituent present at OSHA thresholds

CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):
No regulated constituents present

MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16 Other information

HMIS vII		CODE TRANSLATION
Health	2	Moderate Hazard
Fire	0	Minimal Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles,Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	14-FEB-1997		** NEW **
	23-APR-1997	15	14-FEB-1997
	11-JUL-1997	15	23-APR-1997
	23-APR-2001	4	11-JUL-1997
	12-APR-2007	5,10	23-APR-2001
	18-JUN-2009	4,8,10,15	12-APR-2007
	09-JUN-2011	10	18-JUN-2009

GE
Water & Process Technologies

Material Safety Data Sheet

Issue Date: 24-JUN-2009
Supercedes: 27-OCT-2008

OPTISPERSE AP302

1 Identification

Identification of substance or preparation
OPTISPERSE AP302

Product Application Area
Water based internal boiler treatment chemical.

Company/Undertaking Identification
GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355-3300, F 215 953 5524

Emergency Telephone
(800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300 Prepared on: 24-JUN-2009

2 Hazard(s) identification

****
EMERGENCY OVERVIEW

CAUTION

May cause slight irritation to the skin. May cause slight irritation to the eyes. Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard is not applicable
Odor: Mild; Appearance: Yellow, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water
****

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:
Primary route of exposure; May cause slight irritation to the skin.

ACUTE EYE EFFECTS:
May cause slight irritation to the eyes.

ACUTE RESPIRATORY EFFECTS:
Mists/aerosols may cause irritation to upper respiratory tract.

INGESTION EFFECTS:
May cause slight gastrointestinal irritation.

TARGET ORGANS:
No evidence of potential chronic effects.

MEDICAL CONDITIONS AGGRAVATED:
Not known.

SYMPTOMS OF EXPOSURE:
May cause redness or itching of skin.

3 Composition / information on ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

This product is not hazardous as defined by OSHA regulations.

No component is considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration at OSHA thresholds for carcinogens.

4 First-aid measures

SKIN CONTACT:
Wash thoroughly with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

EYE CONTACT:
Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get medical attention if irritation persists after flushing.

INHALATION:
If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.

INGESTION:
Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 2-8 fluid ounces (60-240 mL) of milk or water.

NOTES TO PHYSICIANS:
No special instructions

5 Fire-fighting measures

FIRE FIGHTING INSTRUCTIONS:
Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
EXTINGUISHING MEDIA:
dry chemical, carbon dioxide, foam or water
HAZARDOUS DECOMPOSITION PRODUCTS:
oxides of carbon and sulfur, hydrogen chloride
FLASH POINT:
> 200F > 93C P-M(CC)

6 Accidental release measures

PROTECTION AND SPILL CONTAINMENT:
Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.
DISPOSAL INSTRUCTIONS:
Water contaminated with this product may be sent to a sanitary sewer treatment facility,in accordance with any local agreement,a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7 Handling and storage

HANDLING:
Normal chemical handling.
STORAGE:
Keep containers closed when not in use. Do not freeze. If frozen, thaw and mix completely prior to use.

8 Exposure controls / personal protection

EXPOSURE LIMITS

This product is not hazardous as defined by OSHA regulations.

ENGINEERING CONTROLS:
adequate ventilation
PERSONAL PROTECTIVE EQUIPMENT:
Use protective equipment in accordance with 29CFR 1910 Subpart I
RESPIRATORY PROTECTION:
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.
USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.
If air-purifying respirator use is appropriate, use any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.
SKIN PROTECTION:
rubber, butyl, viton or neoprene gloves -- Wash off after each use. Replace as necessary.
EYE PROTECTION:
splash proof chemical goggles

9 Physical and chemical properties

Spec. Grav.(70F,21C)	1.208	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	21	Vapor Density (air=1)	< 1.00
Freeze Point (C)	-6		
Viscosity(cps 70F,21C)	209	% Solubility (water)	100.0

Odor		Mild
Appearance		Yellow
Physical State		Liquid
Flash Point	P-M(CC)	> 200F > 93C
pH As Is (approx.)		10.3
Evaporation Rate (Ether=1)		< 1.00
Percent VOC:		0.0

NA = not applicable ND = not determined

10 Stability and reactivity

CHEMICAL STABILITY:
Stable under normal storage conditions.
POSSIBILITY OF HAZARDOUS REACTIONS:
No known hazardous reactions.
INCOMPATIBILITIES:
May react with strong oxidizers.
DECOMPOSITION PRODUCTS:
oxides of carbon and sulfur, hydrogen chloride

11 Toxicological information

Oral LD50 RAT:	>2,000 mg/kg
NOTE - Estimated value	
Dermal LD50 RABBIT:	>2,000 mg/kg
NOTE - Estimated value	

12 Ecological information

AQUATIC TOXICOLOGY
Daphnia magna 48 Hour Static Renewal Bioassay
LC50= 2730; No Effect Level= 1000 mg/L
Fathead Minnow 96 Hour Static Renewal Bioassay
LC50= 5100; No Effect Level= 2000 mg/L

BIODEGRADATION
BOD-28 (mg/g): 0
BOD-5 (mg/g): 0
COD (mg/g): 390
TOC (mg/g): 117

13 Disposal considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14 Transport information

DOT HAZARD: Not Applicable
PROPER SHIPPING NAME:

DOT EMERGENCY RESPONSE GUIDE #: Not applicable
Note: Some containers may be DOT exempt, please check BOL for exact container classification

15 Regulatory information

TSCA:
All components of this product are included on or are in compliance with the U.S. TSCA regulations.
CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):
No regulated constituent present at OSHA thresholds
FOOD AND DRUG ADMINISTRATION:
ALL ingredients in this product are authorized in 21CFR173.310 for use as boiler water additives where the steam may contact food.
NSF Registered and/or meets USDA (according to 1998 Guidelines):
Registration number: 139021
Category Code(s):
G5 Cooling and retort water treatment products - all food processing areas
G6 Boiler treatment products - all food processing areas/food contact
SARA SECTION 312 HAZARD CLASS:
Product is non-hazardous under Section 311/312
SARA SECTION 302 CHEMICALS:
No regulated constituent present at OSHA thresholds
SARA SECTION 313 CHEMICALS:
No regulated constituent present at OSHA thresholds
CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):
No regulated constituents present
MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16 Other information

HMIS vII		CODE TRANSLATION
Health	1	Slight Hazard
Fire	1	Slight Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles,Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	21-MAY-1998		** NEW **
	05-OCT-1998	15	21-MAY-1998
	08-OCT-1998	15	05-OCT-1998
	20-JUL-1999	12	08-OCT-1998
	22-DEC-2000	12	20-JUL-1999
	25-JUN-2001	15	22-DEC-2000
	01-NOV-2001	15	25-JUN-2001
	18-MAR-2004	15	01-NOV-2001
	05-JAN-2006	4,8,15	18-MAR-2004
	01-DEC-2006	5,10	05-JAN-2006
	23-JAN-2007	15	01-DEC-2006
	29-JAN-2007	;EDIT:15	23-JAN-2007
	13-JUL-2007	4,8,15	29-JAN-2007
	27-OCT-2008	5,8,10	13-JUL-2007
	24-JUN-2009	10,15	27-OCT-2008

GE
Water & Process Technologies

Material Safety Data Sheet

Issue Date: 07-AUG-2012
Supercedes: 01-AUG-2012

GENGARD GN8206

1 Identification

Identification of substance or preparation
GENGARD GN8206

Product Application Area
Corrosion inhibitor

Company/Undertaking Identification
GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355-3300, F 215 953 5524

Emergency Telephone
(800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300 Prepared on: 07-AUG-2012

2 Hazard(s) identification

****
EMERGENCY OVERVIEW

DANGER

Corrosive to skin. Corrosive to the eyes. Mists/aerosols cause irritation to the upper respiratory tract.

DOT hazard: Corrosive to skin/aluminum
Odor: Slight Ammonia; Appearance: Amber To Dark Brown, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water
****

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:
Primary route of exposure; Corrosive to skin.

ACUTE EYE EFFECTS:
Corrosive to the eyes.

ACUTE RESPIRATORY EFFECTS:
Mists/aerosols cause irritation to the upper respiratory tract.

INGESTION EFFECTS:

May cause severe irritation or burning of mouth, throat, and gastrointestinal tract with severe chest and abdominal pain, nausea, vomiting, diarrhea, lethargy and collapse. Possible death when ingested in very large doses.

TARGET ORGANS:
Prolonged or repeated exposures may cause primary irritant dermatitis and/or tissue necrosis.

MEDICAL CONDITIONS AGGRAVATED:
Not known.

SYMPTOMS OF EXPOSURE:
Causes irritation of the skin, eyes, and/or respiratory system.

3 Composition / information on ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

Cas#	Chemical Name	Range(w/w%)
1310-73-2	SODIUM HYDROXIDE Corrosive; toxic (by ingestion)	1-5
202420-04-0	CHLOROTOLYLTRIAZOLE SODIUM SALT May cause mild eye irritation	1-5

4 First-aid measures

SKIN CONTACT:
URGENT! Wash thoroughly with soap and water. Remove contaminated clothing. Get immediate medical attention. Thoroughly wash clothing before reuse.

EYE CONTACT:
URGENT! Immediately flush eyes with water for 30 minutes while removing contact lenses. Hold eyelids apart. Get immediate medical attention.

INHALATION:
If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.

INGESTION:
Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Rinse mouth with plenty of water. Dilute contents of stomach using 4-10 fluid ounces (120-300 mL) of milk or water.

NOTES TO PHYSICIANS:
No special instructions

5 Fire-fighting measures

FIRE FIGHTING INSTRUCTIONS:
Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
EXTINGUISHING MEDIA:
dry chemical, carbon dioxide, foam or water
HAZARDOUS DECOMPOSITION PRODUCTS:
oxides of carbon and nitrogen, hydrogen chloride
FLASH POINT:
> 213F > 101C P-M(CC)
MISCELLANEOUS:
Corrosive to skin/aluminum
UN 3267;Emergency Response Guide #153

6 Accidental release measures

PROTECTION AND SPILL CONTAINMENT:
Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.
DISPOSAL INSTRUCTIONS:
Water contaminated with this product may be sent to a sanitary sewer treatment facility,in accordance with any local agreement,a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7 Handling and storage

HANDLING:
Alkaline. Do not mix with acidic material. Take precautions to minimize foaming.
STORAGE:
Keep containers closed when not in use. Protect from freezing. If frozen, thaw completely and mix thoroughly prior to use. Store away from acids. Do not store in aluminum containers.

8 Exposure controls / personal protection

EXPOSURE LIMITS
CHEMICAL NAME

SODIUM HYDROXIDE
PEL (OSHA): 2 MG/M3
TLV (ACGIH): TWA (Ceiling) = 2 MG/M3

CHLOROTOLYLTRIAZOLE SODIUM SALT
PEL (OSHA): LIMITS HAVE NOT BEEN ESTABLISHED BY US OSHA.
TLV (ACGIH): LIMITS HAVE NOT BEEN ESTABLISHED BY ACGIH.

ENGINEERING CONTROLS:
adequate ventilation
PERSONAL PROTECTIVE EQUIPMENT:
Use protective equipment in accordance with 29CFR 1910 Subpart I
RESPIRATORY PROTECTION:
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.

USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.
If air-purifying respirator use is appropriate, use any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.

SKIN PROTECTION:
gauntlet-type butyl or rubber gloves, chemical resistant apron-- Wash off after each use. Replace as necessary.

EYE PROTECTION:
splash proof chemical goggles, face shield

9 Physical and chemical properties

Spec. Grav.(70F,21C)	1.179	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	21	Vapor Density (air=1)	< 1.00
Freeze Point (C)	-6		
Viscosity(cps 70F,21C)	39	% Solubility (water)	100.0

Odor		Slight Ammonia
Appearance		Amber To Dark Brown
Physical State		Liquid
Flash Point	P-M(CC)	> 213F > 101C
pH As Is (approx.)		13.3
Evaporation Rate (Ether=1)		< 1.00
Percent VOC:		0.0

NA = not applicable ND = not determined

10 Stability and reactivity

CHEMICAL STABILITY:
Stable under normal storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:
Contact with strong acids may cause a violent reaction releasing heat. Contact with water reactive compounds may cause fire or explosion.

INCOMPATIBILITIES:
May react with acids or strong oxidizers.

DECOMPOSITION PRODUCTS:
oxides of carbon and nitrogen, hydrogen chloride

11 Toxicological information

Oral LD50 RAT: >5000 mg/kg
NOTE - Calculated value according to GHS additivity formula
Dermal LD50 RABBIT: >5000 mg/kg
NOTE - Calculated value according to GHS additivity formula
Skin Irritation Score RABBIT: Corrosive
NOTE - GHS Category 1C skin corrosive
Eye Irritation Score RABBIT: Corrosive
NOTE - GHS Category 1 causes serious eye damage

12 Ecological information

AQUATIC TOXICOLOGY

Daphnia magna 48 Hour Static Renewal Bioassay (pH adjusted)
LC50= 503; No Effect Level= 250 mg/L
Fathead Minnow 96 Hour Static Renewal Bioassay (pH adjusted)
LC50= 266; No Effect Level= 250 mg/L
Rainbow Trout 96 Hour Static Renewal Bioassay (pH adjusted)
LC50= 127; No Effect Level= 100 mg/L

BIODEGRADATION

BOD-28 (mg/g): 43
BOD-5 (mg/g): 21
COD (mg/g): 302
TOC (mg/g): 93

13 Disposal considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
D002=Corrosive(pH).

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14 Transport information

Transportation Hazard: Corrosive to skin/aluminum
DOT: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.(ACRYLATE TERPOLYMER, SODIUM HYDROXIDE)
8, UN3267, PG III
DOT EMERGENCY RESPONSE GUIDE #: 153
Note: Some containers may be DOT exempt, please check BOL for exact container classification
IATA: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.(ACRYLATE TERPOLYMER, SODIUM HYDROXIDE)
8, UN3267, PG III
IMDG: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.(ACRYLATE TERPOLYMER, SODIUM HYDROXIDE)
8, UN3267, PG III

15 Regulatory information

TSCA:

All components of this product are included on or are in compliance with the U.S. TSCA regulations.

CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):

4,439 gallons due to SODIUM HYDROXIDE;

NSF Registered and/or meets USDA (according to 1998 Guidelines):

Registration number: 144531
Category Code(s):
G5 Cooling and retort water treatment products - all food processing areas
G7 Boiler treatment products - all food processing areas/nonfood contact

SARA SECTION 312 HAZARD CLASS:

Immediate(acute);Delayed(Chronic)

SARA SECTION 302 CHEMICALS:

No regulated constituent present at OSHA thresholds

SARA SECTION 313 CHEMICALS:

No regulated constituent present at OSHA thresholds

CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):

This product contains one or more ingredients at trace levels known to the state of California to cause cancer.

MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16 Other information

HMIS vII		**CODE TRANSLATION**
Health	3	Serious Hazard
Fire	1	Slight Hazard
Reactivity	0	Minimal Hazard
Special	CORR	DOT corrosive
(1) Protective Equipment	D	Goggles,Face Shield,Gloves,Apron

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	09-FEB-2010		** NEW **
	28-OCT-2010	12	09-FEB-2010
	01-FEB-2011	8	28-OCT-2010
	16-FEB-2011	7,10,12	01-FEB-2011
	05-APR-2011	11	16-FEB-2011
	03-MAY-2011	15	05-APR-2011
	14-JUN-2011	3,7,8	03-MAY-2011
	30-JUL-2012	14	14-JUN-2011
	01-AUG-2012	14	30-JUL-2012
	07-AUG-2012	2,4,8,14	01-AUG-2012

GE
Water & Process Technologies

Material Safety Data Sheet

Issue Date: 31-MAR-2011
Supercedes: 01-FEB-2011

GENGARD GN7300

1 Identification

Identification of substance or preparation
GENGARD GN7300

Product Application Area
Corrosion inhibitor

Company/Undertaking Identification
GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355-3300, F 215 953 5524

Emergency Telephone
(800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300 Prepared on: 31-MAR-2011

2 Hazard(s) identification

****
EMERGENCY OVERVIEW

DANGER

Corrosive to skin. Corrosive to the eyes. Mists/aerosols cause irritation to the upper respiratory tract.

DOT hazard: Corrosive to skin/steel
Odor: Mild; Appearance: Colorless To Light Yellow, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water
****

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:
Primary route of exposure; Corrosive to skin.

ACUTE EYE EFFECTS:
Corrosive to the eyes.

ACUTE RESPIRATORY EFFECTS:
Mists/aerosols cause irritation to the upper respiratory tract.

INGESTION EFFECTS:

May cause severe irritation or burning of mouth, throat, and gastrointestinal tract with severe chest and abdominal pain, nausea, vomiting, diarrhea, lethargy and collapse. Possible death when ingested in very large doses.

TARGET ORGANS:
Prolonged or repeated exposures may cause tissue necrosis.

MEDICAL CONDITIONS AGGRAVATED:
Not known.

SYMPTOMS OF EXPOSURE:
Inhalation may cause irritation of mucous membranes and respiratory tract. Skin contact causes severe irritation or burns.

3 Composition / information on ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

Cas#	Chemical Name	Range(w/w%)
7664-38-2	PHOSPHORIC ACID Corrosive	60-100

4 First-aid measures

SKIN CONTACT:
URGENT! Wash thoroughly with soap and water. Remove contaminated clothing. Get immediate medical attention. Thoroughly wash clothing before reuse.

EYE CONTACT:
URGENT! Immediately flush eyes with plenty of low-pressure water for at least 20 minutes while removing contact lenses. Hold eyelids apart. Get immediate medical attention.

INHALATION:
Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get immediate medical attention.

INGESTION:
Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 2-8 fluid ounces (60-240 mL) of milk or water.

NOTES TO PHYSICIANS:
Material is corrosive. It may not be advisable to induce vomiting. Possible mucosal damage may contraindicate the use of gastric lavage.

5 Fire-fighting measures

FIRE FIGHTING INSTRUCTIONS:
Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
EXTINGUISHING MEDIA:
dry chemical, carbon dioxide, foam or water
HAZARDOUS DECOMPOSITION PRODUCTS:
oxides of carbon and phosphorus
FLASH POINT:
> 200F > 93C P-M(CC)
MISCELLANEOUS:
Corrosive to skin/steel
UN 1805;Emergency Response Guide #154

6 Accidental release measures

PROTECTION AND SPILL CONTAINMENT:
Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.
DISPOSAL INSTRUCTIONS:
Water contaminated with this product may be sent to a sanitary sewer treatment facility,in accordance with any local agreement,a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7 Handling and storage

HANDLING:
Acidic. Corrosive(Skin/eyes). Do not mix with alkaline material.
STORAGE:
Keep containers closed when not in use. Use approved containers only. Store in cool, well-vented area. Contact with metals may release flammable hydrogen gas.

8 Exposure controls / personal protection

EXPOSURE LIMITS
CHEMICAL NAME

PHOSPHORIC ACID
PEL (OSHA): 1 MG/M3
TLV (ACGIH): TWA = 1 MG/M3; STEL = 3 MG/M3
MISC: NIOSH REL = 1 MG/M3; NIOSH STEL = 3 MG/M3; NIOSH IDLH = 1000 MG/M3

ENGINEERING CONTROLS:
Adequate ventilation to maintain air contaminants below exposure limits.
PERSONAL PROTECTIVE EQUIPMENT:
Use protective equipment in accordance with 29CFR 1910 Subpart I
RESPIRATORY PROTECTION:
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.
USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.

If air-purifying respirator use is appropriate, use a respirator with HEPA cartridges.

SKIN PROTECTION:

gauntlet-type neoprene gloves, chemical resistant apron--Wash off after each use. Replace as necessary.

EYE PROTECTION:

splash proof chemical goggles, face shield

9 Physical and chemical properties

Spec. Grav.(70F,21C)	1.579	Vapor Pressure (mmHG)	15.0
Freeze Point (F)	< -30	Vapor Density (air=1)	> 1.00
Freeze Point (C)	< -34		
Viscosity(cps 70F,21C)	44	% Solubility (water)	100.0

Odor		Mild
Appearance		Colorless To Light Yellow
Physical State		Liquid
Flash Point	P-M(CC)	> 200F > 93C
pH As Is (approx.)		< 1.0
Evaporation Rate (Ether=1)		< 1.00
Percent VOC:		0.0

NA = not applicable ND = not determined

10 Stability and reactivity

CHEMICAL STABILITY:

Stable under normal storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

Contact with strong bases may cause a violent reaction releasing heat.

INCOMPATIBILITIES:

May react with bases or strong oxidizers.

DECOMPOSITION PRODUCTS:

oxides of carbon and phosphorus

11 Toxicological information

Oral LD50 RAT:	2040 mg/kg
NOTE - Calculated value according to GHS additivity formula	
Dermal LD50 RABBIT:	3650 mg/kg
NOTE - Calculated value according to GHS additivity formula	
Skin Irritation Score RABBIT:	CORROSIVE 24hr
NOTE - DOT HM181 Packing Group III: corrosive to skin in 240 minutes but not 60 minutes	
Eye Irritation Score RABBIT:	CORROSIVE 24hr
Ames Assay :	NEGATIVE

12 Ecological information

AQUATIC TOXICOLOGY

Ceriodaphnia 48 Hour Static Screen (pH adjusted)
85% Mortality= 2500; 5% Mortality= 500 mg/L
Daphnia magna 48 Hour Static Renewal Bioassay (pH adjusted)
LC50= 3540; No Effect Level= 2100 mg/L
Fathead Minnow 96 Hour Static Renewal Bioassay (pH adjusted)
LC50= 4200; No Effect Level= 2100 mg/L

BIODEGRADATION

Product contains only inorganics that are not subject to typical biological degradation. Assimilation by microbes may occur in waste treatment or the environment.

13 Disposal considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
D002=Corrosive(pH, steel).

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14 Transport information

Transportation Hazard: Corrosive to skin/steel
DOT: PHOSPHORIC ACID SOLUTION
8, UN 1805, PG III, RQ
DOT EMERGENCY RESPONSE GUIDE #: 154
Note: Some containers may be DOT exempt, please check BOL for exact container classification
IATA: PHOSPHORIC ACID SOLUTION
8, UN 1805, PG III
IMDG: PHOSPHORIC ACID SOLUTION
8, UN 1805, PG III

15 Regulatory information

TSCA:
All components of this product are included on or are in compliance with the U.S. TSCA regulations.
CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):
507 gallons due to PHOSPHORIC ACID;
NSF Registered and/or meets USDA (according to 1998 Guidelines):
Registration number: 142960
Category Code(s):
G5 Cooling and retort water treatment products - all food processing areas
G7 Boiler treatment products - all food processing areas/nonfood contact
SARA SECTION 312 HAZARD CLASS:
Immediate(acute);Delayed(Chronic)
SARA SECTION 302 CHEMICALS:

No regulated constituent present at OSHA thresholds

SARA SECTION 313 CHEMICALS:

No regulated constituent present at OSHA thresholds

CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):

No regulated constituents present

MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16 Other information

HMIS vII		**CODE TRANSLATION**
Health	3	Serious Hazard
Fire	0	Minimal Hazard
Reactivity	0	Minimal Hazard
Special	CORR	DOT corrosive
(1) Protective Equipment	D	Goggles,Face Shield,Gloves,Apron

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	28-JUN-2007		** NEW **
	23-JUN-2009	10	28-JUN-2007
	01-FEB-2011	8	23-JUN-2009
	31-MAR-2011	15	01-FEB-2011

GE Power & Water
Water & Process Technologies

SAFETY DATA SHEET

SPECTRUS* NX1100

1. Product and Company Identification

Material name	**SPECTRUS NX1100**
Version #	3.0
Revision date	Jul-03-2014
Supersedes date	Sep-25-2013
Chemical description	Blend of biocidal agents
CAS #	Mixture
Product application	Biocide

Company/undertaking identification

GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355 3300, F 215 953 5524

Emergency telephone

(800) 877 1940

2. Hazards Identification

Emergency overview

DANGER

Corrosive to skin. Corrosive to the eyes. Mists/aerosols may cause irritation to upper respiratory tract. May cause an allergic skin reaction.

Potential health effects

Eyes	Corrosive to eyes
Skin	Corrosive to skin
Inhalation	May cause irritation of respiratory tract.
Ingestion	May cause severe irritation or burning of the gastrointestinal tract.
Target organs	Prolonged or repeated exposures may cause tissue necrosis. Repeated skin contact may cause sensitization.
Signs and symptoms	Direct contact with skin will cause severe delayed skin reactions or burns if not washed off immediately.
Medical conditions aggravated by exposure	None known.

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
2-Bromo-2-nitropropane-1,3-diol (Bronopol)	52-51-7	2.5 - 10
Magnesium nitrate	10377-60-3	2.5 - 10
Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)	55965-84-9	2.5 - 10
Magnesium chloride	7786-30-3	1 - 2.5

Hazardous components	CAS #	Percent
Sulphuric acid	7664-93-9	0.1 - 1

Non-hazardous components	CAS #
Water	7732-18-5

Composition comments Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately.

Skin contact Wash thoroughly with soap and water. Take off contaminated clothing and wash before reuse. Get medical attention immediately. Thoroughly wash clothing before reuse.

Inhalation Remove to fresh air.
If breathing is difficult, trained personnel should give oxygen.
If not breathing, give artificial respiration. Get medical attention immediately.

Ingestion Do NOT induce vomiting! Do not feed anything by mouth to an unconscious or convulsive victim. Dilute contents of stomach using 2-8 fluid ounces (60-240ml) of milk or water. Get immediate medical attention.

Notes to physician Material is corrosive. It may not be advisable to induce vomiting. Possible mucosal damage may contraindicate the use of gastric lavage.

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media Dry chemical, CO2, water spray or regular foam.

Protection of firefighters

Specific hazards arising from the chemical Corrosive liquid.

Protective equipment and precautions for firefighters Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Fire fighting equipment/instructions Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products Oxides of carbon and hydrogen bromide hydrogen chloride Oxides of nitrogen. Oxides of sulphur.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental Release Measures

Personal precautions Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. See Section 8 of the MSDS for Personal Protective Equipment.

Environmental precautions Prevent from entering sewers or the immediate environment.
Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.

Methods for cleaning up Keep spills and clean-up residuals out of municipal sewers and open bodies of water. Absorb the spill with spill pillows or inert solids such as clay or vermiculite. Transfer contaminated materials to suitable containers for disposal. Deactivate spill area with freshly prepared solution of 5% sodium bicarbonate and 5% sodium hypochlorite in water. Apply solution to the spill area at a ratio of 10 volumes deactivation solution per estimated volume of residual spill to deactivate any residual active ingredient. Let stand for 30 minutes. Flush the spill area with copious amounts of water to chemical sewer in accordance with local procedures, permits and regulations. DO NOT add deactivation solution to the waste pail to deactivate the adsorbed material. Water contaminated with this product may be sent to a sanitary sewer treatment facility, or a permitted waste treatment facility, in accordance with any local agreements.

7. Handling and Storage

Handling Corrosive liquid. Contains an oxidiser.
Avoid all contact with reducing agents, oils, greases, organics and acids.
Avoid contact with skin and eyes.
Do not breathe vapors or spray mist. Do not create an aerosol.

Storage	Keep container tightly closed in a dry and well-ventilated place. Store at temperatures below 35°C Use approved containers only. Protect from freezing. If frozen, thaw completely and mix thoroughly prior to use.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Sulphuric acid (CAS 7664-93-9)	TWA	0.2 mg/m3	Thoracic fraction.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Sulphuric acid (CAS 7664-93-9)	PEL	1 mg/m3

Biological limit values	No biological exposure limits noted for the ingredient(s).
Engineering controls	Adequate ventilation to maintain air contaminants below exposure limits.

Personal protective equipment

Eye / face protection	Splash proof chemical goggles. Face shield.
Skin protection	Gauntlet-type rubber, butyl or neoprene gloves. Chemical resistant apron. Rubber boots. Wash off after each use. Replace as necessary.
Respiratory protection	A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE. If air-purifying respirator use is appropriate, use organic vapor cartridges and any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	
Physical state	Liquid
Color	Colorless to yellow green
Odor	None
Odor threshold	Not available.
pH (concentrated product)	3
pH in aqueous solution	3.7 (5% SOL.)
Vapor pressure	18 mm Hg
Vapor pressure temp.	70 °F (21 °C)
Vapor density	< 1 (Air = 1)
Boiling point	220 °F (104 °C)
Melting point/Freezing point	24 °F (-4 °C)
Solubility (water)	100 %
Specific gravity (70°F, 21°C)	1.11
Flash point	Not applicable.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.
Evaporation rate	< 1 (Ether = 1)
Viscosity	10 cps
Viscosity temperature	70 °F (21 °C)

Percent volatile	0
Pour point	29 °F (-2 °C)

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Protect from freezing. Avoid contact with strong oxidizers.
Incompatible materials	Avoid all contact with reducing agents, oils, greases, organics and acids. Avoid contact with strong oxidizers.
Hazardous decomposition products	Hydrogen bromide, bromine gas, hydrogen chloride, chlorine gas, oxides of carbon and nitrogen evolved in fire. Sulfur oxides.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Product	**Species**	**Test Results**
SPECTRUS NX1100 (CAS Mixture)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 1 mg/l, 4 Hour
Oral		
LD50	Rat	1030 mg/kg

Components	**Species**	**Test Results**
2-Bromo-2-nitropropane-1,3-diol (Bronopol) (CAS 52-51-7)		
Acute		
Dermal		
LD50	Rat	1600 mg/kg
Inhalation		
LC50	Rat	> 0.59 mg/l, 4 Hour
Oral		
LD50	Rat	324 mg/kg
Magnesium chloride (CAS 7786-30-3)		
Acute		
Oral		
LD50	Rat	2800 mg/kg
Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1) (CAS 55965-84-9)		
Acute		
Inhalation		
LC50	Rat	0.33 mg/l, 4 Hour
Sulphuric acid (CAS 7664-93-9)		
Acute		
Inhalation		
LC50	Rat	0.375 mg/l, 4 Hour
Oral		
LD50	Rat	2140 mg/kg

Acute effects	Harmful in contact with skin. Harmful if swallowed. Harmful if inhaled.
Carcinogenicity	Not classified.

ACGIH Carcinogens

Sulphuric acid (CAS 7664-93-9)	A2 Suspected human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Sulphuric acid (CAS 7664-93-9) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Skin corrosion/irritation Causes severe skin burns and eye damage.

Mutagenicity Not classified.

Reproductive effects Not classified.

Symptoms and target organs Burning pain and severe corrosive skin damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

12. Ecological Information

Ecotoxicity

Product		Species	Test Results
SPECTRUS NX1100 (CAS Mixture)			
	LC50	Ceriodaphnia	4.7 mg/l, Static Renewal Bioassay, 48 hour
		Fathead Minnow	3.5 mg/l, Static Renewal Bioassay, 96 hour
		Menidia beryllina (Silversides)	15.9 mg/l, Static Renewal Bioassay, 96 hour
		Mysid Shrimp	40.5 mg/l, Static Renewal Bioassay, 48 hour
		Sheepshead Minnow	26.7 mg/l, Static Renewal Bioassay, 96 hour
	NOEL	Ceriodaphnia	0.63 mg/l, Static Renewal Bioassay, 48 hour
		Fathead Minnow	1.8 mg/l, Static Renewal Bioassay, 96 hour
		Menidia beryllina (Silversides)	12.5 mg/l, Static Renewal Bioassay, 96 hour
		Mysid Shrimp	18 mg/l, Static Renewal Bioassay, 48 hour
		Sheepshead Minnow	15.5 mg/l, Static Renewal Bioassay, 96 hour
Crustacea	LC50	Daphnia magna	5 mg/l, Static Renewal Bioassay, 48 hour
	NOEL	Daphnia magna	2.5 mg/l, Static Renewal Bioassay, 48 hour
Other	LC50	Rainbow Trout	7.2 mg/l, Static Renewal Bioassay, 96 hour
	NOEL	Rainbow Trout	3.1 mg/l, Static Renewal Bioassay, 96 hour

Components		Species	Test Results
2-Bromo-2-nitropropane-1,3-diol (Bronopol) (CAS 52-51-7)			
	EC50	Daphnia Magna	1.4 mg/l, 48 hour
Other	LC50	Rainbow Trout	41 mg/l, 96 hour

Bioaccumulation / accumulation Not bioaccumulating (Refers to active component) 2-Bromo-2-nitropropane-1,3-diol

Partition coefficient

2-Bromo-2-nitropropane-1,3-diol (Bronopol)	-0.6
Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)	0.5

Persistence and degradability

- COD (mgO2/g)	78 (calculated data)
- BOD 5 (mgO2/g)	2 (calculated data)
- BOD 28 (mgO2/g)	4 (calculated data)
- Closed Bottle Test (% Degradation in 28 days)	2 (calculated data)
- Zahn-Wellens Test (% Degradation in 28 days)	8 (calculated data)
- TOC (mg C/g)	29 (calculated data)

13. Disposal Considerations

Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations.
Waste from residues / unused products	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Dispose of in approved pesticide facility or according to label instructions.

14. Transport Information

DOT

UN number	UN2927
UN proper shipping name	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (MIXTURE OF 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-4-ISOTHIAZOLIN-3-ONE, 2-BROMO-2-NITROPROPANE-1,3-DIOL)
Transport hazard class(es)	
Class	6.1
Subsidiary risk	8
Packing group	II
Special precautions for user	Not available.
ERG number	154

Some containers may be DOT exempt, please check BOL for exact container classification.

IATA

UN number	UN2927
UN proper shipping name	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (MIXTURE OF 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-4-ISOTHIAZOLIN-3-ONE, 2-BROMO-2-NITROPROPANE-1,3-DIOL)
Transport hazard class(es)	
Class	6.1
Subsidiary risk	8
Packing group	II
Environmental hazards	Yes
Special precautions for user	Not available.

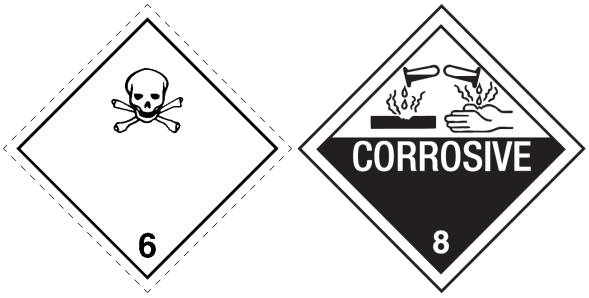
IMDG

UN number	UN2927
UN proper shipping name	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (MIXTURE OF 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-4-ISOTHIAZOLIN-3-ONE, 2-BROMO-2-NITROPROPANE-1,3-DIOL), MARINE POLLUTANT
Transport hazard class(es)	
Class	6.1
Subsidiary risk	8
Packing group	II
Environmental hazards	
Marine pollutant	Yes
EmS	Not available.
Special precautions for user	Not available.

TDG

UN number	UN2927
UN proper shipping name	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (MIXTURE OF 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-4-ISOTHIAZOLIN-3-ONE, 2-BROMO-2-NITROPROPANE-1,3-DIOL)
Hazard class	6.1
Subsidiary hazard class	8
Packing group	II
ERG code	154

DOT



IATA; IMDG



TDG



Marine pollutant



15. Regulatory Information

US federal regulations This is an EPA registered biocide and is exempt from TSCA inventory requirements. See FIFRA registry number.

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Spill: Reportable quantity

Sulphuric acid (CAS 7664-93-9)	1000 LBS

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Substance: Threshold Planning Quantity

Sulphuric acid (CAS 7664-93-9)	1000 LBS

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Magnesium nitrate (CAS 10377-60-3)	1.0 % N511
Sulphuric acid (CAS 7664-93-9)	1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Magnesium nitrate (CAS 10377-60-3)	Listed. N511
Sulphuric acid (CAS 7664-93-9)	Listed.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA (Superfund) reportable quantity, lbs

Sulphuric acid: 1000 lbs

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Sulphuric acid	7664-93-9	1000	1000 lbs		

SARA 311/312 Hazardous chemical No

Clean Water Act (CWA) Hazardous substance

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

FIFRA registration number 3876-151

TSCA This is an EPA registered biocide and is exempt from TSCA inventory requirements.

Food and drug administration 21 CFR 176.300 & 176.170 (slimicides and as a preservative)

NSF Registered and/or meets USDA (according to 1998 guidelines):
Registration No. – 141064
Category Code(s):
G5 Cooling and retort water treatment products
G7 Boiler, steam line treatment products – nonfood contact

State regulations

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Sulphuric acid (CAS 7664-93-9)	Listed: March 14, 2003 Carcinogenic.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

No ingredient listed.

US - Massachusetts RTK - Substance List

Magnesium nitrate (CAS 10377-60-3)
Sulphuric acid (CAS 7664-93-9)

US - New Jersey RTK - Substances: Listed substance

Magnesium nitrate (CAS 10377-60-3)	Listed.
Sulphuric acid (CAS 7664-93-9)	Listed.

US - Pennsylvania RTK - Hazardous Substances

Magnesium nitrate (CAS 10377-60-3)	Listed.
Sulphuric acid (CAS 7664-93-9)	Listed.

US - Rhode Island RTK

Magnesium nitrate (CAS 10377-60-3)
Sulphuric acid (CAS 7664-93-9)

16. Other Information

List of abbreviations	CAS: Chemical Abstract Service Registration Number TWA: Time Weighted Average STEL: Short Term Exposure Limit LD50: Lethal Dose, 50% LC50: Lethal Concentration, 50% NOEL: No Observed Effect Level COD: Chemical Oxygen Demand BOD: Biochemical Oxygen Demand TOC: Total Organic Carbon IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods Code NFPA: National Fire Protection Association ACGIH: American Conference of Governmental Industrial Hygienists TSRN indicates a Trade Secret Registry Number is used in place of the CAS number.
HMIS® ratings	Health: 3 Flammability: 0 Physical hazard: 0 Personal protection: D
NFPA ratings	Health: 3 Flammability: 0 Instability: 0 Special hazards: CORR
This data sheet contains changes from the previous version in section(s):	This document has undergone significant changes and should be reviewed in its entirety.
Prepared by	This MSDS has been prepared by GE Water & Process Technologies Regulatory Department (1-215-355-3300).

* Trademark of General Electric Company. May be registered in one or more countries.

GE
Water & Process Technologies

Material Safety Data Sheet

Issue Date: 28-JUL-2011
Supercedes: 24-MAY-2011

CORRSHIELD NT4207

1 Identification

Identification of substance or preparation
CORRSHIELD NT4207

Product Application Area
Corrosion inhibitor.

Company/Undertaking Identification
GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355-3300, F 215 953 5524

Emergency Telephone
(800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300 Prepared on: 28-JUL-2011

2 Hazard(s) identification

****
EMERGENCY OVERVIEW

WARNING

May cause moderate irritation to the skin. Severe irritant to the eyes. Mists/aerosols cause irritation to the upper respiratory tract.

DOT hazard: Toxic Liquid, RQ
Odor: Slight; Appearance: Yellow, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: Flood with water. Use of CO2 or foam may not be effective.
****

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:
Primary route of exposure; May cause moderate irritation to the skin.

ACUTE EYE EFFECTS:
Severe irritant to the eyes.

ACUTE RESPIRATORY EFFECTS:
Mists/aerosols cause irritation to the upper respiratory tract.

INGESTION EFFECTS:
Toxic;
May cause gastrointestinal irritation with possible nausea, vomiting, headache, dizziness, unconsciousness and injury to the kidneys and liver.

TARGET ORGANS:
Prolonged or repeated exposures may cause CNS depression and/or toxicity to the liver, kidney, and blood system.

MEDICAL CONDITIONS AGGRAVATED:
Not known.

SYMPTOMS OF EXPOSURE:
May cause redness or itching of skin.

3 Composition / information on ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

Cas#	Chemical Name	Range(w/w%)
7632-00-0	SODIUM NITRITE Oxidizer; toxic (by ingestion); potential blood toxin	15-40
12179-04-3	BORIC ACID, DISODIUM SALT, PENTAHYDRATE Eye, skin and respiratory tract irritant	1-5

4 First-aid measures

SKIN CONTACT:
Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. Get medical attention if irritation develops or persists.

EYE CONTACT:
Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

INHALATION:
If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.

INGESTION:
Do not feed anything by mouth to an unconscious or convulsive victim. Dilute contents of stomach. Induce vomiting by one of the standard methods. Immediately contact a physician.

NOTES TO PHYSICIANS:
No special instructions

5 Fire-fighting measures

FIRE FIGHTING INSTRUCTIONS:
Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
EXTINGUISHING MEDIA:
Flood with water. Use of CO2 or foam may not be effective.
HAZARDOUS DECOMPOSITION PRODUCTS:
oxides of boron, carbon and nitrogen
FLASH POINT:
> 200F > 93C P-M(CC)
MISCELLANEOUS:
Toxic Liquid, RQ
UN 3287;Emergency Response Guide #151

6 Accidental release measures

PROTECTION AND SPILL CONTAINMENT:
Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.
DISPOSAL INSTRUCTIONS:
Water contaminated with this product may be sent to a sanitary sewer treatment facility,in accordance with any local agreement,a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7 Handling and storage

HANDLING:
Contains an oxidizer. Avoid all contact with reducing agents, oils, greases, organics and acids. Do not allow to dry.
STORAGE:
Keep containers closed when not in use. Protect from freezing.

8 Exposure controls / personal protection

EXPOSURE LIMITS
CHEMICAL NAME

SODIUM NITRITE
PEL (OSHA): LIMITS HAVE NOT BEEN ESTABLISHED BY US OSHA.
TLV (ACGIH): LIMITS HAVE NOT BEEN ESTABLISHED BY ACGIH.

BORIC ACID, DISODIUM SALT, PENTAHYDRATE
PEL (OSHA): LIMITS HAVE NOT BEEN ESTABLISHED BY US OSHA.
TLV (ACGIH): TWA = 2 MG/M3; STEL = 6 MG/M3; A4 (As Borate compounds, Inorganic)

ENGINEERING CONTROLS:
Adequate ventilation to maintain air contaminants below exposure limits.
PERSONAL PROTECTIVE EQUIPMENT:
Use protective equipment in accordance with 29CFR 1910 Subpart I
RESPIRATORY PROTECTION:
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.

USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.
If air-purifying respirator use is appropriate, use any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.

SKIN PROTECTION:

rubber, butyl, viton or neoprene gloves -- Wash off after each use. Replace as necessary.

EYE PROTECTION:

splash proof chemical goggles

9 Physical and chemical properties

Spec. Grav.(70F,21C)	1.250	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	< < 0	Vapor Density (air=1)	< 1.00
Freeze Point (C)	< -18		
Viscosity(cps 70F,21C)	12	% Solubility (water)	100.0

Odor		Slight
Appearance		Yellow
Physical State		Liquid
Flash Point	P-M(CC)	> 200F > 93C
pH As Is (approx.)		11.6
Evaporation Rate (Ether=1)		< 1.00
Percent VOC:		0.0

NA = not applicable ND = not determined

10 Stability and reactivity

CHEMICAL STABILITY:

Stable under normal storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

No known hazardous reactions.

INCOMPATIBILITIES:

May react with organics or reducing agents.

DECOMPOSITION PRODUCTS:

oxides of boron, carbon and nitrogen

11 Toxicological information

Oral LD50 RAT:	~275 mg/kg
NOTE - Estimated value	
Dermal LD50 RABBIT:	>5,000 mg/kg
NOTE - Estimated value	

12 Ecological information

AQUATIC TOXICOLOGY

Ceriodaphnia 48 Hour Static Renewal Bioassay
LC50= 61; No Effect Level= 15.6 mg/L
Daphnia magna 48 Hour Static Renewal Bioassay pH of test solutions was adjusted to a level of 6-9.

LC50= 100; No Effect Level= 38 mg/L
Fathead Minnow 96 Hour Static Renewal Bioassay
LC50= 1072; No Effect Level= 500 mg/L
Rainbow Trout 96 Hour Static Acute Bioassay
LC50= 180; No Effect Level= 100 mg/L

BIODEGRADATION

BOD-28 (mg/g): 1
BOD-5 (mg/g): 0
COD (mg/g): 79
TOC (mg/g): 4

13 Disposal considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14 Transport information

Transportation Hazard: Toxic Liquid, RQ
DOT: TOXIC LIQUID, INORGANIC, N.O.S.(SODIUM NITRITE SOLUTION) 6.1, UN 3287, PG III RQ
DOT EMERGENCY RESPONSE GUIDE #: 151
Note: Some containers may be DOT exempt, please check BOL for exact container classification
IATA: TOXIC LIQUID, INORGANIC, N.O.S.(SODIUM NITRITE SOLUTION) 6.1, UN3287, PG III
IMDG: TOXIC LIQUID, INORGANIC, N.O.S.(SODIUM NITRITE SOLUTION) 6.1, UN 3287, PG III

15 Regulatory information

TSCA:

All components of this product are included on or are in compliance with the U.S. TSCA regulations.

CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):

32 gallons due to SODIUM NITRITE;

NSF Registered and/or meets USDA (according to 1998 Guidelines):

Registration number: 144579
Category Code(s):
G10 Boiler treatment products - all food processing areas except meat and poultry/nonfood contact
G8 Cooling and retort water treatment products - all food processing areas except meat and poultry

SARA SECTION 312 HAZARD CLASS:

Immediate(acute);Delayed(Chronic)

SARA SECTION 302 CHEMICALS:

No regulated constituent present at OSHA thresholds

SARA SECTION 313 CHEMICALS:

CAS#	CHEMICAL NAME	RANGE
7632-00-0	SODIUM NITRITE	21.0-30.0%

CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):

No regulated constituents present

MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16 Other information

HMIS vII		**CODE TRANSLATION**
Health	2	Moderate Hazard
Fire	0	Minimal Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles,Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	09-JAN-1998		** NEW **
	16-NOV-2001	15	09-JAN-1998
	09-OCT-2002	12	16-NOV-2001
	21-MAR-2005	12	09-OCT-2002
	16-MAY-2006	10	21-MAR-2005
	03-AUG-2007	5,8,10	16-MAY-2006
	11-SEP-2008	3,8	03-AUG-2007
	23-JUN-2009	10	11-SEP-2008
	24-MAY-2011	15	23-JUN-2009
	28-JUL-2011	15	24-MAY-2011

GE Power & Water
Water & Process Technologies

SAFETY DATA SHEET

BETZ* MPH5000

1. Product and Company Identification

Material name	**BETZ MPH5000**
Version #	1.1
Revision date	12/05/2014
Supersedes date	06/05/2011
Chemical description	Solution of organic complexant (citric acid)
CAS #	Mixture
Product application	Membrane cleaner

Company/undertaking identification

GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355 3300, F 215 953 5524

Emergency telephone

(800) 877 1940

2. Hazards Identification

Emergency overview

WARNING

Irritating to eyes. May cause slight irritation to the skin.

Potential health effects

Eyes	Irritating to eyes.
Inhalation	Mists/aerosols cause irritation to the upper respiratory tract
Ingestion	May cause slight gastrointestinal irritation.
Medical conditions aggravated by exposure	None known.

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
Citric acid	77-92-9	40 - 60

Non-hazardous components	CAS #
Water	7732-18-5

Composition comments

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

4. First Aid Measures

First aid procedures

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Keep eyelids apart. Get medical attention immediately.

Skin contact	Wash immediately with plenty of water. If irritation persists, seek medical advice.
Inhalation	Move to fresh air. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Get medical attention immediately.
Ingestion	Rinse mouth. Do not feed anything by mouth to an unconscious or convulsive victim. Do NOT induce vomiting! Immediately contact a physician. Dilute contents of stomach using 2-8 fluid ounces (60-240ml) of milk or water.
Notes to physician	No special instructions.

5. Fire Fighting Measures

Extinguishing media	
Suitable extinguishing media	Carbon dioxide, dry chemicals, foam, water spray (fog).
Protection of firefighters	
Specific hazards arising from the chemical	Oxides of carbon evolved in fire.
Fire fighting equipment/instructions	Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

6. Accidental Release Measures

Personal precautions	Wear protective clothing, gloves and safety goggles.
Environmental precautions	Prevent from entering sewers or the immediate environment. Accidental release of large quantities into the aquatic environment may harm aquatic organisms.
Methods for cleaning up	Ventilate the area. Soak up with inert absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.

7. Handling and Storage

Handling	Acidic. Do not mix with alkaline material. Normal chemical handling.
Storage	Store in dry, cool, well ventilated area. Store containers closed when not in use.

8. Exposure Controls / Personal Protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Engineering controls	Provide adequate ventilation.
Personal protective equipment	
Eye / face protection	Splash proof chemical goggles.
Skin protection	Rubber, butyl, viton or neoprene gloves. Wash off after each use. Replace as necessary.
Respiratory protection	A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE. If air-purifying respirator use is appropriate, use any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.

9. Physical & Chemical Properties

Appearance	
Physical state	Liquid
Color	Colorless
Odor	Mild
Odor threshold	Not available.
pH (concentrated product)	2
Vapor pressure	18 mm Hg
Vapor pressure temp.	70 °F (21 °C)
Vapor density	< 1 (Air = 1)
Boiling point	225 °F (107 °C)
Melting point/Freezing point	20 °F (-7 °C)
Solubility (water)	100 %
Specific gravity (70°F, 21°C)	1.24
Flash point	> 212 °F (> 100 °C) P-M(CC)

Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.
Evaporation rate	< 1 (Ether = 1)
Viscosity temperature	70 °F (21 °C)
Percent volatile	0 (Calculated)
Pour point	25 °F (-4 °C)

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Avoid contact with strong oxidizers. Avoid contact with strong bases.
Incompatible materials	Strong oxidizing substances. Avoid contact with strong bases.
Hazardous decomposition products	Oxides of carbon evolved in fire.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Product	**Species**	**Test Results**
BETZ MPH5000 (CAS Mixture)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, (Calculated according to GHS additivity formula)
Inhalation		
LC50	Rat	> 20 mg/l, 4 Hour, (Calculated according to GHS additivity formula)
Oral		
LD50	Rat	> 2000 mg/kg, (Calculated according to GHS additivity formula)

Components	**Species**	**Test Results**
Citric acid (CAS 77-92-9)		
Acute		
Oral		
LD50	Rat	5040 mg/kg

Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Skin corrosion/irritation Causes skin irritation.

12. Ecological Information

Ecotoxicity No data available

Ecotoxicity No data available

Persistence and degradability

No data available

13. Disposal Considerations

Disposal instructions According to Hazardous Waste Regulations.

Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

Contaminated packaging	According to Hazardous Waste Regulations. Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

14. Transport Information

DOT

UN number	UN3265
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS CITRIC ACID)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Special precautions for user	Not available.
ERG number	153

Some containers may be DOT exempt, please check BOL for exact container classification.

IATA

UN number	UN3265
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS CITRIC ACID)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Environmental hazards	No.
Special precautions for user	Not available.

IMDG

UN number	UN3265
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS CITRIC ACID)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	No.
EmS	Not available.
Special precautions for user	Not available.

TDG

UN number	UN3265
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS CITRIC ACID)
Hazard class	8
Packing group	III
ERG code	153

DOT



IATA; IMDG; TDG



15. Regulatory Information

US federal regulations

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

None listed.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA (Superfund) reportable quantity, lbs

None listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical	No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

State regulations

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

No ingredient listed.

US - Massachusetts RTK - Substance List

Not regulated.

US - Pennsylvania RTK - Hazardous Substances

Not regulated.

US - Rhode Island RTK

Not regulated.

16. Other Information

List of abbreviations	CAS: Chemical Abstract Service Registration Number TWA: Time Weighted Average STEL: Short Term Exposure Limit LD50: Lethal Dose, 50% LC50: Lethal Concentration, 50% NOEL: No Observed Effect Level COD: Chemical Oxygen Demand BOD: Biochemical Oxygen Demand TOC: Total Organic Carbon IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods Code TSRN indicates a Trade Secret Registry Number is used in place of the CAS number. ACGIH: American Conference of Governmental Industrial Hygienists NFPA: National Fire Protection Association
HMIS® ratings	Health: 2 Flammability: 0 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 2 Flammability: 0 Instability: 0 Special hazards: ACID
This data sheet contains changes from the previous version in section(s):	Product and Company Identification: Commercial Names Physical & Chemical Properties: Multiple Properties Regulatory Information: United States
Prepared by	This MSDS has been prepared by GE Water & Process Technologies Regulatory Department (1-215-355-3300).

* Trademark of General Electric Company. May be registered in one or more countries.

GE
Water & Process Technologies

Material Safety Data Sheet

Issue Date: 03-NOV-2011
Supercedes: 23-OCT-2008

HYPERSPERSE MDC220

1 Identification

Identification of substance or preparation
HYPERSPERSE MDC220

Product Application Area
Reverse osmosis antiscalant

Company/Undertaking Identification
GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355-3300, F 215 953 5524

Emergency Telephone
(800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300 Prepared on: 03-NOV-2011

2 Hazard(s) identification

****
EMERGENCY OVERVIEW

CAUTION

May cause slight irritation to the skin. May cause moderate irritation to the eyes. Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard is not applicable
Odor: Mild; Appearance: Light Yellow To Amber, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water
****

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:
Primary route of exposure; May cause slight irritation to the skin.

ACUTE EYE EFFECTS:
May cause moderate irritation to the eyes.

ACUTE RESPIRATORY EFFECTS:
Mists/aerosols may cause irritation to upper respiratory tract.

INGESTION EFFECTS:
May cause slight gastrointestinal irritation.

TARGET ORGANS:
No evidence of potential chronic effects.

MEDICAL CONDITIONS AGGRAVATED:
Not known.

SYMPTOMS OF EXPOSURE:
May cause redness or itching of skin.

3 Composition / information on ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

Cas#	Chemical Name	Range(w/w%)
29329-71-3	PHOSPHONIC ACID, (1-HYDROXYETHYLIDENE)BIS-, SODIUM SALT Eye irritant; slight skin irritant	10-20

4 First-aid measures

SKIN CONTACT:
Wash thoroughly with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

EYE CONTACT:
Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

INHALATION:
If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.

INGESTION:
Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 3-4 glasses milk or water.

NOTES TO PHYSICIANS:
No special instructions

5 Fire-fighting measures

FIRE FIGHTING INSTRUCTIONS:
Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
EXTINGUISHING MEDIA:
dry chemical, carbon dioxide, foam or water
HAZARDOUS DECOMPOSITION PRODUCTS:
elemental oxides
FLASH POINT:
> 200F > 93C P-M(CC)

6 Accidental release measures

PROTECTION AND SPILL CONTAINMENT:
Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.
DISPOSAL INSTRUCTIONS:
Water contaminated with this product may be sent to a sanitary sewer treatment facility,in accordance with any local agreement,a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7 Handling and storage

HANDLING:
Normal chemical handling.
STORAGE:
Keep containers closed when not in use. Protect from freezing. Do not store at elevated temperatures. Use proper containers.

8 Exposure controls / personal protection

EXPOSURE LIMITS

CHEMICAL NAME

PHOSPHONIC ACID, (1-HYDROXYETHYLIDENE)BIS-, SODIUM SALT
PEL (OSHA): LIMITS HAVE NOT BEEN ESTABLISHED BY US OSHA.
TLV (ACGIH): LIMITS HAVE NOT BEEN ESTABLISHED BY ACGIH.

ENGINEERING CONTROLS:
adequate ventilation
PERSONAL PROTECTIVE EQUIPMENT:
Use protective equipment in accordance with 29CFR 1910 Subpart I
RESPIRATORY PROTECTION:
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.
USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.
If air-purifying respirator use is appropriate, use a respirator with dust/mist filters.
SKIN PROTECTION:
neoprene gloves-- Wash off after each use. Replace as necessary.
EYE PROTECTION:
splash proof chemical goggles

9 Physical and chemical properties

Spec. Grav.(70F,21C)	1.169	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	25	Vapor Density (air=1)	< 1.00
Freeze Point (C)	-4		
Viscosity(cps 70F,21C)	14	% Solubility (water)	100.0

Odor		Mild
Appearance		Light Yellow To Amber
Physical State		Liquid
Flash Point	P-M(CC)	> 200F > 93C
pH As Is (approx.)		2.4
Evaporation Rate (Ether=1)		< 1.00
Percent VOC:		0.0

NA = not applicable ND = not determined

10 Stability and reactivity

CHEMICAL STABILITY:
Stable under normal storage conditions.
POSSIBILITY OF HAZARDOUS REACTIONS:

INCOMPATIBILITIES:
May react with strong oxidizers.
DECOMPOSITION PRODUCTS:
elemental oxides

11 Toxicological information

Oral LD50 RAT: 2740 mg/kg
NOTE - Calculated value according to GHS additivity formula
Dermal LD50 RABBIT: >5000 mg/kg
NOTE - Calculated value according to GHS additivity formula

12 Ecological information

AQUATIC TOXICOLOGY
Daphnia magna 48 Hour Acute Toxicity (Estimated)
LC50= 2700; No Effect Level= 1540 mg/L
Fathead Minnow 96 Hour Acute Toxicity (Estimated)
No Effect Level= 5000 mg/L

BIODEGRADATION
BOD-28 (mg/g): 1
BOD-5 (mg/g): 1
COD (mg/g): 116
TOC (mg/g): 26

13 Disposal considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14 Transport information

Transportation Hazard: Not Applicable
DOT: Not Regulated

DOT EMERGENCY RESPONSE GUIDE #: Not applicable
Note: Some containers may be DOT exempt, please check BOL for exact container classification
IATA: Not Regulated

IMDG: Not Regulated

15 Regulatory information

TSCA:
All components of this product are included on or are in compliance with the U.S. TSCA regulations.
CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):
No regulated constituent present at OSHA thresholds
NSF Registered and/or meets USDA (according to 1998 Guidelines):
Registration number: Not Registered
SARA SECTION 312 HAZARD CLASS:
Immediate(acute)
SARA SECTION 302 CHEMICALS:
No regulated constituent present at OSHA thresholds
SARA SECTION 313 CHEMICALS:
No regulated constituent present at OSHA thresholds
CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):
No regulated constituents present
MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16 Other information

HMIS vII		**CODE TRANSLATION**
Health	1	Slight Hazard
Fire	0	Minimal Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles,Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	21-SEP-1999		** NEW **
	07-JAN-2000	15	21-SEP-1999
	13-MAR-2000	2,4,8	07-JAN-2000
	09-JAN-2002	15	13-MAR-2000
	16-DEC-2002	2,7,8	09-JAN-2002
	25-SEP-2006	2;EDIT:15	16-DEC-2002
	12-JAN-2007	2,14	25-SEP-2006
	23-OCT-2008	3,8	12-JAN-2007
	03-NOV-2011	11	23-OCT-2008

GE Power & Water
Water & Process Technologies

SAFETY DATA SHEET

FLOGARD* POT807

1. Identification

Product identifier **FLOGARD POT807**

Other means of identification Not available.

Recommended use Corrosion inhibitor

Recommended restrictions None known.

Company/undertaking identification

GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355 3300, F 215 953 5524

Emergency telephone

(800) 877 1940

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes skin irritation. Causes serious eye damage. May cause respiratory irritation.

Precautionary statement

Prevention Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye/face protection.

Response If on skin: Wash with plenty of water/. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor/. Specific treatment (see on this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Phosphoric acid, tripotassium salt		7778-53-2	20 - 40
Tetrapotassium pyrophosphate		7320-34-5	10 - 20

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Composition comments Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this SDS for our assessment of the potential hazards of this formulation.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

Most important symptoms/effects, acute and delayed Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Do not get this material in contact with eyes. Avoid breathing mist or vapor. Avoid contact with skin. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use care in handling/storage.
Conditions for safe storage, including any incompatibilities	Do not freeze. Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Store in accordance with local/regional/national/international regulation.

8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection	Splash proof chemical goggles.
Skin protection	
Hand protection	Chemical resistant gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Glove selection must take into account any solvents and other hazards present.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece. A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Color	Colorless
Physical state	Liquid
Odor	Mild
Odor threshold	Not available.
pH (concentrated product)	7.2
pH in aqueous solution	7 (5% SOL.)
Melting point/freezing point	3 °F (-16 °C)
Initial boiling point and boiling range	220 °F (104 °C)
Flash point	> 200 °F (> 93 °C) P-M(CC)
Evaporation rate	< 1 (Ether = 1)
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	18 mm Hg
Vapor pressure temp.	70 °F (21 °C)
Vapor density	< 1 (Air = 1)

Relative density	1.44
Relative density temperature	70 °F (21 °C)
Solubility(ies)	
Solubility (water)	100 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	24 cps
Viscosity temperature	70 °F (21 °C)
Other information	
Percent volatile	0 (Estimated)
Pour point	8 °F (-13 °C)
Specific gravity	1.44

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Protect from freezing.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Elemental Oxides

11. Toxicological information

Information on likely routes of exposure

Ingestion	May cause gastrointestinal irritation.
Inhalation	May cause irritation to the respiratory system.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.
Symptoms related to the physical, chemical and toxicological characteristics	May cause redness and pain. May cause respiratory irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity May cause respiratory irritation.

Product	Species	Test Results
FLOGARD POT807 (CAS Mixture)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg, (Calculated according to GHS additivity formula)
Oral		
LD50	Rat	> 5000 mg/kg, (Calculated according to GHS additivity formula)

Components	Species	Test Results
Phosphoric acid, tripotassium salt (CAS 7778-53-2)		
Acute		
Dermal		
LD50	Rabbit	> 4640 mg/kg
Oral		
LD50	Rat	> 4640 mg/kg

Components	Species	Test Results
Tetrapotassium pyrophosphate (CAS 7320-34-5)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	2440 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure May cause respiratory irritation.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Based on available data, the classification criteria are not met. May be harmful if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test Results
FLOGARD POT807 (CAS Mixture)			
	LC50	Fathead Minnow	2110 mg/L, Static Renewal Bioassay, 96 hour
	NOEL	Fathead Minnow	1370 mg/L, Static Renewal Bioassay, 96 hour
Crustacea	LC50	Daphnia magna	1285 mg/L, Static Renewal Bioassay, 48 hour
	NOEL	Daphnia magna	892 mg/L, Static Renewal Bioassay, 48 hour

* Estimates for product may be based on additional component data not shown.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Environmental fate The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of this product.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

Some containers may be DOT exempt, please check BOL for exact container classification.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical: No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA): Not regulated.

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Food and drug administration	The ingredients in this product are Generally Recognized As Safe by FDA for direct addition to human food.
NSF Registered and/or meets USDA (according to 1998 guidelines):	Registration No. – 140831 Category Code(s): G5 Cooling and retort water treatment products G7 Boiler, steam line treatment products – nonfood contact
US state regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - Massachusetts RTK - Substance List

Not regulated.

US - Pennsylvania RTK - Hazardous Substances

Not regulated.

US - Rhode Island RTK

Not regulated.

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

No ingredient listed.

16. Other information, including date of preparation or last revision

Issue date	Dec-18-2014
Revision date	Dec-18-2014
Version #	1.0
List of abbreviations	CAS: Chemical Abstract Service Registration Number TSRN indicates a Trade Secret Registry Number is used in place of the CAS number. ACGIH: American Conference of Governmental Industrial Hygienists NOEL: No Observed Effect Level STEL: Short Term Exposure Limit LC50: Lethal Concentration, 50% TWA: Time Weighted Average BOD: Biochemical Oxygen Demand COD: Chemical Oxygen Demand TOC: Total Organic Carbon IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods Code TLV: Threshold Limit Value LD50: Lethal Dose, 50% NFPA: National Fire Protection Association
References:	No data available
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information in the sheet was written based on the best knowledge and experience currently available.
Revision Information	Product and Company Identification: Physical States Toxicological Information: Toxicological Data GHS: Classification

Prepared by	This SDS has been prepared by GE Water & Process Technologies Regulatory Department (1-215-355-3300).

* Trademark of General Electric Company. May be registered in one or more countries.

Sodium Hydroxide,1M

SECTION 1 : Identification of the substance/mixture and of the supplier

Product name : **Sodium Hydroxide,1M**

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: **S25549A**

Recommended uses of the product and uses restrictions on use:

Manufacturer Details:

AquaPhoenix Scientific
9 Barnhart Drive, Hanover, PA 17331

Supplier Details:

Fisher Science Education
15 Jet View Drive, Rochester, NY 14624

Emergency telephone number:

Fisher Science Education Emergency Telephone No.: 800-535-5053

SECTION 2 : Hazards identification

Classification of the substance or mixture:



Corrosive
Corrosive to metals, category 1
Skin corrosion, category 1B
Serious eye damage, category 1

Skin Corr. 1B
Eye corr. 1
Metal Corr. 1

Signal word :Danger

Hazard statements:
May be corrosive to metals
Causes severe skin burns and eye damage
Causes serious eye damage

Precautionary statements:
If medical advice is needed, have product container or label at hand
Keep out of reach of children
Read label before use
Keep only in original container
Wash ... thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapours/spray
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell
Immediately call a POISON CENTER or doctor/physician
Specific treatment (see supplemental first aid instructions on this label)

Absorb spillage to prevent material damage
Store in a corrosive resistant/... container with a resistant inner liner
Store locked up
Dispose of contents/container to ...

Other Non-GHS Classification:

WHMIS

E 

NFPA/HMIS



NFPA SCALE (0-4)

Health	2
Flammability	0
Physical Hazard	0
Personal Protection	X

HMIS RATINGS (0-4)

SECTION 3 : Composition/information on ingredients

Ingredients:		
CAS 1310-73-2	Sodium Hydroxide	4 %
CAS 7732-18-5	Deionized Water	96 %
		Percentages are by weight

SECTION 4 : First aid measures

Description of first aid measures

After inhalation: Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position.Seek medical advice if discomfort or irritation persists.If breathing difficult, give oxygen.

After skin contact: Take off contaminated clothing and shoes immediately.Wash affected area with soap and water.Seek medical attention if irritation, discomfort persist.

After eye contact: Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Immediately get medical assistance.

After swallowing: Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.

Most important symptoms and effects, both acute and delayed:

Irritation, Nausea,Headache, Shortness of breath.;

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician.

SECTION 5 : Firefighting measures

Extinguishing media

Suitable extinguishing agents: If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

For safety reasons unsuitable extinguishing agents: Carbon dioxide.Carbon dioxide.

Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors.Thermal decomposition can lead to release of irritating gases and vapors.Sodium oxides.

Advice for firefighters:

Protective equipment: Use NIOSH-approved respiratory protection/breathing apparatus.

Additional information (precautions): Move product containers away from fire or keep cool with water spray as a protective measure, where feasible.

SECTION 6 : Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Transfer to a disposal or recovery container.Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation.Keep away from ignition sources. Protect from heat.

Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13

Methods and material for containment and cleaning up:

If in a laboratory setting, follow Chemical Hygiene Plan procedures.Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor.Collect liquid and dilute with water. Neutralize with dilute acid solutions. Decant water to drain with excess water. Absorb with suitable material. Dispose of remaining solid as normal refuse. Always obey local regulations.

Reference to other sections:

SECTION 7 : Handling and storage

Precautions for safe handling:

Absorb spillage to prevent material damage due to corrosiveness to metal. Avoid contact with eyes, skin, and clothing. Wash hands after handling. Do not mix with acids.Follow good hygiene procedures when handling chemical materials. Use only in well ventilated areas.

Conditions for safe storage, including any incompatibilities:

Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents.Store in cool, dry conditions in well sealed containers. Store with Corrosives.

SECTION 8 : Exposure controls/personal protection





Control Parameters:	1310-73-2, Sodium Hydroxide, OSHA PEL TWA 2 mg/m3 1310-73-2, Sodium Hydroxide, ACGIH TLV TWA 2 mg/m3
Appropriate Engineering controls:	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling.Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.Use under a chemical fume hood.
Respiratory protection:	Use suitable respiratory protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable. Use under a chemical fume hood.
Protection of skin:	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation being used/handled.Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Eye protection:	Safety glasses with side shields or goggles.
General hygienic measures:	The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.

SECTION 9 : Physical and chemical properties

Appearance (physical state,color):	Clear, colorless liquid	**Explosion limit lower**: **Explosion limit upper**:	Non Explosive Non Explosive
Odor:	Odorless	**Vapor pressure**:	14mmHg @ 20C
Odor threshold:	Not Determined	**Vapor density**:	>1
pH-value:	13.3	**Relative density**:	Approx 1
Melting/Freezing point:	Approx 0°C	**Solubilities**:	Soluble in Water
Boiling point/Boiling range:	Approx 100°C	**Partition coefficient (n-octanol/water)**:	Not Determined
Flash point (closed cup):	Not Determined	**Auto/Self-ignition temperature**:	Not Determined
Evaporation rate:	Not Determined	**Decomposition temperature**:	Not Determined
Flammability (solid,gaseous):	Not Determined	**Viscosity**:	a. Kinematic:Not Determined b. Dynamic: Not Determined
Density: Not Determined			

SECTION 10 : Stability and reactivity

Reactivity: solution attacks metals such as aluminium, tin, lead and zinc Also generates heat on exposure to acids. Aqueous solutions react violently with acids.
Chemical stability: No decomposition if used and stored according to specifications.
Possible hazardous reactions:

Conditions to avoid: Incompatible materials, excess heat
Incompatible materials:acids, Organic materials, Chlorinated solvents, Aluminum, Phosphorus, Tin/tin oxides, Zinc
Hazardous decomposition products:sodium oxides, hydrogen

SECTION 11 : Toxicological information

Acute Toxicity: No additional information.		
Chronic Toxicity: No additional information.		
Corrosion Irritation:		
Ocular:	1310-73-2	Rabbit: Corrosive to eyes
Dermal:	1310-73-2	Rabbit: Causes Burns
Sensitization:		No additional information.
Single Target Organ (STOT):		No additional information.
Numerical Measures:		No additional information.
Carcinogenicity:		Not listed as a carcinogen: 1310-73-2
Mutagenicity:		No additional information.
Reproductive Toxicity:		No additional information.

SECTION 12 : Ecological information

Ecotoxicity Persistence and degradability: Readily degradable in the environment.
Bioaccumulative potential: Not Bioaccumulative.
Mobility in soil: -1.87 (water)
Other adverse effects:

SECTION 13 : Disposal considerations

Waste disposal recommendations:

Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water.It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.Neutralize with dilute acid solutions.

SECTION 14 : Transport information

UN-Number

1824

UN proper shipping name

Sodium hydroxide solution

Transport hazard class(es)



Class:
8 Corrosive substances

Packing group:II
Environmental hazard:
Transport in bulk:
Special precautions for user:

SECTION 15 : Regulatory information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

None of the ingredients is listed

SARA Section 313 (Specific toxic chemical listings):

None of the ingredients is listed

RCRA (hazardous waste code):

None of the ingredients is listed

TSCA (Toxic Substances Control Act):

All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

1310-73-2 Sodium Hydroxide 1000 lb

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

Chemicals known to cause developmental toxicity:

None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed

Canadian NPRI Ingredient Disclosure list (limit 1%):

1310-73-2 Sodium Hydroxide

SECTION 16 : Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.Note:. The responsibility to provide a safe workplace remains with the user.The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.The information contained herein is, to the best of our knowledge and belief, accurate.However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this

material.It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.
GHS Full Text Phrases:

Abbreviations and acronyms:
IMDG: International Maritime Code for Dangerous Goods
PNEC: Predicted No-Effect Concentration (REACH)
CFR: Code of Federal Regulations (USA)
SARA: Superfund Amendments and Reauthorization Act (USA)
RCRA: Resource Conservation and Recovery Act (USA)
TSCA: Toxic Substances Control Act (USA)
NPRI: National Pollutant Release Inventory (Canada)
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)

Effective date : 12.14.2014
Last updated : 03.25.2015

ATTACHMENT E

GROUNDWATER MONITORING DATA

March 18, 2025 Service Request No:E2500192

SPL, Inc.-Ana-lab
101 Ibex Lane
Broussard, LA 70518

Laboratory Results for: 2387193

Dear Project Manager,

Enclosed are the results of the sample(s) submitted to our laboratory March 07, 2025
For your reference, these analyses have been assigned our service request number **E2500192.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	ALS Environmental - Middletown	**Service Request No.:**	E2500192
Project:	3327439	**Date Received:**	03/07/25
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 03/07/25.

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2500103: Laboratory Control Spike / **Duplicate Laboratory Control Spike (LCS/DLCS)** samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

B flags – Method Blanks

The Method Blank EQ2500103-01 contained low levels of target compounds below the Method Reporting Limit (MRL). The associated compounds in the samples are flagged with 'B' flags where the sample result is less than ten times the level detected in the method blank.

One compound, OCDD, was above the MRL (CRQL). ALS/Houston follows the ***EPA National Functional Guidelines for CDDs and CDFs, September 2005,*** which states on page 31, "The concentration of OCDD/OCDF in the method blank must be <3x the CRQL (MRL.):"

K flags

EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.

Detection Limits

Detection limits are calculated for each analyte in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

The TEQ Summary results for each sample have been calculated by ALS/Houston to include:

- WHO-2005 TEFs, The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds (M. Van den Berg et al., Toxicological Sciences 93(2):223-241, 2006)
- Non-detected compounds are not included in the 'Total'
- The 1:1 and associated dilution have been combined into one TEQ Summary report
- EPA-89 TEFs, "Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxins and Dibenzofurans (CDDs and CDFs)", 1989 EPA Update (EPA/625/3-89/016, March 1989)

- WHO-1998 TEFs, for PCBs, PCDDs, 21 PCDFs for humans and wildlife. (M. Van den Berg, et al., Environ Health Perspect 106: 775-792, 1998)

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: SPL, Inc.-Ana-lab **Service Request:**E2500192
Project: 2387193

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2500192-001	2387193	3/6/2025	0920

Service Request Summary

Folder #: **E2500192**
Client Name: SPL, Inc.-Ana-lab
Project Name: 2387193
Project Number:

Report To:

SPL, Inc.-Ana-lab
101 Ibex Lane
Broussard, LA 70518
USA

Phone Number: 903-984-0551
Cell Number:
Fax Number: 903-984-5914
E-mail: kilgore.projectmanagement@spllabs.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MLUCIO
Date Received: 03/07/25
Internal Due Date: 3/28/2025
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

3 1000 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved
Location: EHRMS-WIC 9E
Pressure Gas:
NPDES

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS Dioxins Furans/1613B
E2500192-001	2387193	Water	03/06/25 0920	II

Service Request Summary

Folder #: **E2500192**
Client Name: SPL, Inc.-Ana-lab
Project Name: 2387193
Project Number:

Report To:

SPL, Inc.-Ana-lab
101 Ibex Lane
Broussard, LA 70518
USA

Phone Number: 903-984-0551
Cell Number:
Fax Number: 903-984-5914
E-mail: kilgore.projectmanagement@spllabs.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MLUCIO
Date Received: 03/07/25
Internal Due Date: 3/28/2025
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

3 1000 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved

Location: EHRMS-WIC 9E

Pressure Gas:

NPDES

Data Qualifiers

HRMS Qualifier Set

*	Indicates the samples were extracted outside of the recommended holding time.
B	Indicates the associated analyte was found in the method blank at >1/10th the reported value.
E	Estimated value. The reported concentration is above the calibration range of the instrument.
J	Estimated value. The reported concentration is below the MRL.
K	The ion abundance ratio between the primary and secondary ions were outside of theoretical acceptance limits.The concentration of this analyte should be considered as an estimate.
P	Chlorodiphenyl ether interference was present at the retention time of the target analyte. Reported result should be considered an estimate.
Q	Monitored lock-mass indicates matrix-interference. Reported result is estimated.
S	Signal saturated detector. Result reported from dilution.
U	Compound was analyzed for, but was not detected (ND).
X	See Case Narrative.
Y	Isotopically Labeled Standard recovery outside of acceptance limits. In all cases, the signal-to-nois ratios are greater than 10:1, making the recoveries acceptable.
i	The MDL/MRL have been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Hawaii Department of Health	2024	4/30/2025
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441	6/30/2025
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025

ALS ENVIRONMENTAL – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID: E2500192 | DB-5MSUI | SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date:	Analyst:	Samples:
03/17/25	LKL	001

Second Level - Data Review – to be filled by person doing peer review

Date:	Analyst:	Samples:
03/17/25	RT	001

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

E2500192
SPL, Inc.-Ana-lab
2387193

5

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

SPL
The Science of Sure

SUBCONTRACT CHAIN OF CUSTODY

Printed 03/06/2025 Page 1 of 1

Subcontract to:

ALS Laboratory Group/Houstor
10450 Stancliff Rd
Houston TX 77099

/ -

Sample 2387193

Taken: 03/06/2025 09:20:00

COMPOSITE

Normal TAT

coll temp

BT TPDES Permit Comp

COMP 3/5 1020-3/6 0920

#1 Autosampler # 7240 Bottle # 001501

Sample poured Date: 3/6/25 Time: 1030

#2 Autosampler # 6359 Bottle # 001500

Sample poured Date: 3/6/25 Time: 1030

1 Amber Glass Liter w/Teflon lined lid

Requested Test(s)

!DIX Dioxins and Furans Subcontract 1613

Shipping Temp 4C

Previous Results:

Date Time	Relinquished	Date Time	Received
03/06/2025 15:31	Affiliation SPL Kilgore Printed Name McCabe Wheeler Signature	03/06/2025 15:31	Affiliation SPL Kilgore Printed Name Michael D. Gribble Signature Michael D Gribble
3/6/25	Printed Name Michael D. Gribble Affiliation SPL Kilgore Signature Michael D Gribble		Printed Name Affiliation Signature
	Printed Name P. Gica Affiliation Signature 3/7/25 10:38		Printed Name Affiliation Signature
	Printed Name Affiliation Signature		Printed Name Affiliation Signature

Sample Received on Ice? [X] Yes [ ] No
Cooler/Sample Secure? [X] Yes [ ] No

Method of Shipment: [ ] UPS [ ] Bus [ ] FedEx [ ] Lone Star [ ] Hand Delivered [ ] Ot

If Shipped: Tracking Number & Temp - See Attached

Hand Delivered to Region

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments

Project 1138739

foam 1.40 #34 cl(-0.2)

Corporate - Kilgore: 2600 Dudley Road Kilgore TX

Kilgore.ProjectManagement@spllabs.com

Form rptSampleSUBNSPL Created 11/16/2

ORIGIN ID:SWOA (405) 372-5300
DANNY CHANCE
ACCURATE ENVIRONMENTAL LLC
505 S LOWRY

STILLWATER, OK 74074
UNITED STATES US

SHIP DATE: 06MAR25
ACTWGT: 13.44 LB
CAD: 253339560/WSXI3600
DIMS: 10x10x12 IN

BILL SENDER

TO **RECEIVING DEPARTMENT**
ALS LAB GROUP USA
10450 STANCLIFF RD
STE 210
HOUSTON TX 77099
(281) 530-5656 REF:
INV:
PO: DEPT:

58CJ207B9/C6C4

FedEx Express

J2510241217010

FRI - 07 MAR 5:00P
STANDARD OVERNIGHT

TRK# 0201 **2861 5664 2352**

XS SGRA

77099
TX-US **IAH**

E2500192
SPL, Inc.-Ana-lab
2387193

5

10450 Stancliff Road, Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Client: SPL Date: 3.7.25 WO#:

Time Received: 10:38 Received by: PG BO#:

Matrices: Solid/Sludge Water Oil Wipes Hydrocarbon Liquid Other

Kit ID/Cooler ID	Trip Blank ID	Cooler Temp (C) Observed/Corrected	IR #	Temp BLK Present?
Foam	—	1.4 / 1.4	34	Y N
		/		Y N
		/		Y N
		/		Y N
		/		Y N

Delivery Method: FedEx UPS Greyhound ALS Client Other

Date/Time of Unpacking: 3.8.25 12:00 Unpacked by: MC

Shipping container/cooler in good condition?	Yes	No	Not Present
Custody seals intact on shipping container/cooler?	Yes	No	Not Present
Custody seals intact on sample bottles?	Yes	No	Not Present
Chain of Custody present?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of Custody - Sampler's name present?	Yes	No	
Chain of Custody agrees with sample labels?	Yes	No	
Samples in proper container/bottle?	Yes	No	
VOA/TX1005/1006 Solids in hermetically Sealed Vials:	Yes	No	No VOA/TX1005/1006 Solid
Sample containers intact?	Yes	No	
Sufficient sample volume for indicated test?	Yes	No	
All samples received within holding time?	Yes	No	
Container/Temp Blank temperature in compliance?	Yes	No	
Water - VOA vials have zero headspace?	Yes	No	N/A No VOA submitted
Non-VOA waters preserved with HCl, H2SO4, HNO3 are pH <2?			Yes No N/A
Waters preserved with NaOH/Ascorbic acid are pH>12?	Yes	No	N/A
pH adjusted?	Yes*	No	N/A *See Preservation Logbook

pH adjusted by: _____ **pH Paper Lot:** _____

RIGHT SOLUTIONS | RIGHT PARTNER

10450 Stancliff Rd., Suite 210
Houston, TX 77099
T: +1 281 530 5656
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www.alsglobal.com

SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 453683 **Prep WorkFlow:** OrgExtAq(365) **Status:** Draft
Team: Semivoa GCMS/TWOODS **Prep Method:** **Prep Date/Time:** 3/11/25 01:55 PM

#	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext.	pH	Cl	I	M	C	Sample Description
1	E2500167-001	Q4 2024 LOQ 5 pg/L (P5)	.01		1613B / Dioxins Furans	Water	1000	5	X				50 ul
2	E2500167-002	Q4 2024 LOD 3 pg/L (P5)	.01		1613B / Dioxins Furans	Water	1000	5					30 ul
3	E2500167-003	Q4 2024 LOQ 5 pg/L	.02		1613 / 16130 Dioxins/Furans	Water	1000	5					50 ul
4	E2500167-004	Q4 2024 LOD 3 pg/L	.02		1613 / 16130 Dioxins/Furans	Water	1000	5					30 ul
5	E2500167-009	Q4 2024 LOQ 5 pg/L (P6)	.01		1613B / Dioxins Furans	Water	1000	5					50 ul
6	E2500167-010	Q4 2024 LOD 3 pg/L (P6)	.01		1613B / Dioxins Furans	Water	1000	5					30 ul
7	E2500186-001	VT-680	.01		1613B / Dioxin Furans Unadjusted MRL	Water	1073	10/7					1587 murky 514
8	E2500186-002	EDC Process	.01		1613B / Dioxin Furans Unadjusted MRL	Water	1093	14/6					1614 tint 521
9	E2500186-003	TZT-07	.01		1613B / Dioxin Furans Unadjusted MRL	Water	1011	7					1492 Clear 481
10	E2500186-004	Biological @Sump PH	.01		1613B / Dioxin Furans Unadjusted MRL-	Water	996	7					1478 tint yellow 482
11	E2500186-005	Physical @ Sump PH Probe	.01		1613B / Dioxin Furans Unadjusted MRL	Water	1017	6					1498 ↓ 481
12	E2500191-001	HC05114-01	.01		1613B / Dioxins Furans	Water	994	6					1475 murky 481
13	E2500192-001	2387193	.01		1613B / Dioxins Furans	Water	1028	6					1478 clear 450
14	E2500194-001	2524 Edwards RD	.01		1613B / Dioxins Furans	Drinking Water	1046	6					1491 clear 445
15	E2500194-002	2283 Brewer RD	.01		1613B / Dioxins Furans	Drinking Water	1013	6					1455 light yellow 442
16	E2500194-003	2461 Edwards RD	.01		1613B / Dioxins Furans	Drinking Water	947	6					1389 clear 442
17	E2500199-001	OD-007 REXTAC			1613B / Dioxins Furans	Wastewater	1018	7					1514 yellow 496
18	EQ2500103-01	MB			1613B / Dioxins Furans	Liquid	1000	5					
19	EQ2500103-02	LCS			1613B / Dioxins Furans	Liquid	1000	5					
20	EQ2500103-03	DLCS			1613B / Dioxins Furans	Liquid	1000	5					

I: 1613 LCS 240536 @ 1000 ul @ 2-4 ng/ml
M: 1613 MWS 240452 @ 100 ul @ 2-20 ng/ml
C: 1613 CWS 240551 @ 1000 ul
1613 MDL LOQ LOD 239480

Supplementary Analytical Record

General Information:

Batch Number: 103
Prep. Run Number: 453683
Method: 1613B
Matrix: Liquid
Apparatus Used: Lg. Soxhlets | Small Soxhlets | Half-Gallon Jars | 250 mL Jars

Extraction

Hexane Lot #: 240233
Dichloromethane Lot #: 239815
Toluene Lot #: 239427
Tridecane Lot #: 239604
Methanol Lot #:
Corn Oil Lot #:
Balance Serial Number: HRMS-01
Rotovaps: Rotovap 1 ( ) or Rotovap 2 ( ) Analyst:

Chlorine Strips Lot #: 235876
pH Strips Lot #: 240082
Sodium Sulfate Lot #: 235888
Acid Lot#:
Sodium Thiosulfate Lot#:
Resin Lot #:
Ottawa Sand ID:

Acid Clean-Up

Sulfuric Acid Lot#: N/A
Sodium Chloride Lot #:

Column Clean-Up

Hexane Lot #: 240233
Dichloromethane Lot#: 239815
Toluene Lot #: 239427
Ethyl Acetate Lot #: 228820
Glass Wool Lot #: 239605
Balance Serial Number: HRMS-01

NaOH Silica Gel ID: 226220-42
H2SO4 Silica Gel ID: 226220-6
Silica Gel Lot #: 236763
Carbon Lot #: 236342
Sodium Hydroxide Lot #:
Sulfuric Acid Lot #:
Sodium Sulfate Lot #: 235888

Additional Notes:

Step-Time Processing:

Extraction: 3/11/25
Spike Time 1200 PM Start Time 2:00
Acid Clean-Up: 3/12/25 11:10 12:00 PM
Column Clean-Up: ------NA---- 12 to 3:00 PM
Final Volume: 3/13/25 9:00 to 12:00 PM

Soxhlet:

Date/Time Up:
Date/Time Down:

Abbreviation Key:

Bench Sheet:

B#: LIMS bottle number
V: Chlorine Check (X = False)
I: Internal Standard Witness (initials)
M: Matrix Witness (initials)
C: Cleanup Standard Witness (initials)

STD Tracking:

I: Internal Spike (LIMS ID; Name; Conc; Initials)
M: Matrix Spike (LIMS ID; Name; Conc; Initials)
C: Cleanup Spike (LIMS ID; Name; Conc; Initials)

*Where additional standards are added to the sample, distinctions are made using unique symbols to indicate which standards are added to which samples.

Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	03/06/25 09:20
Sample Matrix:	Water	**Date Received:**	03/07/25 10:38
Sample Name:	2387193	**Units:**	pg/L
Lab Code:	E2500192-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/14/25 12:59
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1028mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551833	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551829

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	1.13	4.86			1
1,2,3,7,8-PeCDD	ND	U	0.575	24.3			1
1,2,3,4,7,8-HxCDD	1.43**BJK**		0.274	24.3	0.89	1.000	1
1,2,3,6,7,8-HxCDD	ND	U	0.256	24.3			1
1,2,3,7,8,9-HxCDD	ND	U	0.258	24.3			1
1,2,3,4,6,7,8-HpCDD	1.37**BJ**		0.152	24.3	0.88	1.000	1
OCDD	10.5**BJ**		0.664	48.6	0.97	1.000	1
2,3,7,8-TCDF	ND	U	0.885	4.86			1
1,2,3,7,8-PeCDF	ND	U	0.565	24.3			1
2,3,4,7,8-PeCDF	ND	U	0.516	24.3			1
1,2,3,4,7,8-HxCDF	ND	U	0.164	24.3			1
1,2,3,6,7,8-HxCDF	ND	U	0.171	24.3			1
1,2,3,7,8,9-HxCDF	1.19**BJK**		0.194	24.3	1.04	1.000	1
2,3,4,6,7,8-HxCDF	ND	U	0.187	24.3			1
1,2,3,4,6,7,8-HpCDF	0.631**BJK**		0.0788	24.3	0.75	1.000	1
1,2,3,4,7,8,9-HpCDF	0.307**BJK**		0.0857	24.3	1.91	1.000	1
OCDF	4.57**BJ**		0.788	48.6	0.96	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	03/06/25 09:20
Sample Matrix:	Water	**Date Received:**	03/07/25 10:38
Sample Name:	2387193	**Units:**	pg/L
Lab Code:	E2500192-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/14/25 12:59
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1028mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551833	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551829

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	1.13	4.86			1
Total Penta-Dioxins	ND	U	0.575	24.3			1
Total Hexa-Dioxins	ND	U	0.262	24.3			1
Total Hepta-Dioxins	2.31**J**		0.152	24.3	1.12		1
Total Tetra-Furans	ND	U	0.885	4.86			1
Total Penta-Furans	ND	U	0.539	24.3			1
Total Hexa-Furans	ND	U	0.179	24.3			1
Total Hepta-Furans	ND	U	0.0818	24.3			1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	03/06/25 09:20
Sample Matrix:	Water	**Date Received:**	03/07/25 10:38
Sample Name:	2387193	**Units:**	Percent
Lab Code:	E2500192-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/14/25 12:59
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1028mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551833	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551829

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1185.984	59		25-164	0.80	1.022
13C-1,2,3,7,8-PeCDD	2000	1299.551	65		25-181	1.59	1.199
13C-1,2,3,4,7,8-HxCDD	2000	1239.866	62		32-141	1.33	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1228.159	61		28-130	1.24	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1260.020	63		23-140	1.07	1.066
13C-OCDD	4000	2364.587	59		17-157	0.91	1.138
13C-2,3,7,8-TCDF	2000	987.079	49		24-169	0.79	0.991
13C-1,2,3,7,8-PeCDF	2000	1203.574	60		24-185	1.61	1.154
13C-2,3,4,7,8-PeCDF	2000	1271.576	64		21-178	1.61	1.188
13C-1,2,3,4,7,8-HxCDF	2000	1272.565	64		26-152	0.52	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1133.869	57		26-123	0.52	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1270.188	64		29-147	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1107.610	55		28-136	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1064.496	53		28-143	0.44	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	1230.399	62		26-138	0.44	1.079
37Cl-2,3,7,8-TCDD	800	1245.116	156		35-197	NA	1.023

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	03/06/25 09:20
Sample Matrix:	Water	**Date Received:**	03/07/25 10:38
Sample Name:	2387193	**Units:**	pg/L
Lab Code:	E2500192-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	1.13	4.86	1	1	
1,2,3,7,8-PeCDD	ND	0.575	24.3	1	1	
1,2,3,4,7,8-HxCDD	**1.43**	0.274	24.3	1	0.1	0.143
1,2,3,6,7,8-HxCDD	ND	0.256	24.3	1	0.1	
1,2,3,7,8,9-HxCDD	ND	0.258	24.3	1	0.1	
1,2,3,4,6,7,8-HpCDD	**1.37**	0.152	24.3	1	0.01	0.0137
OCDD	**10.5**	0.664	48.6	1	0.0003	0.00315
2,3,7,8-TCDF	ND	0.885	4.86	1	0.1	
1,2,3,7,8-PeCDF	ND	0.565	24.3	1	0.03	
2,3,4,7,8-PeCDF	ND	0.516	24.3	1	0.3	
1,2,3,4,7,8-HxCDF	ND	0.164	24.3	1	0.1	
1,2,3,6,7,8-HxCDF	ND	0.171	24.3	1	0.1	
1,2,3,7,8,9-HxCDF	**1.19**	0.194	24.3	1	0.1	0.119
2,3,4,6,7,8-HxCDF	ND	0.187	24.3	1	0.1	
1,2,3,4,6,7,8-HpCDF	**0.631**	0.0788	24.3	1	0.01	0.00631
1,2,3,4,7,8,9-HpCDF	**0.307**	0.0857	24.3	1	0.01	0.00307
OCDF	**4.57**	0.788	48.6	1	0.0003	0.00137
		Total TEQ				0.290

2005 WHO TEFs, ND = 0

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg/L
Lab Code:	EQ2500103-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/13/25 15:21
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551816	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551813

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	1.06	5.00			1
1,2,3,7,8-PeCDD	ND	U	0.580	25.0			1
1,2,3,4,7,8-HxCDD	1.43**JK**		0.288	25.0	0.88	1.000	1
1,2,3,6,7,8-HxCDD	0.263**JK**		0.246	25.0	0.81	1.000	1
1,2,3,7,8,9-HxCDD	ND	U	0.258	25.0			1
1,2,3,4,6,7,8-HpCDD	0.946**JK**		0.488	25.0	1.73	1.000	1
OCDD	4.42**JK**		0.986	50.0	1.05	1.000	1
2,3,7,8-TCDF	ND	U	0.776	5.00			1
1,2,3,7,8-PeCDF	ND	U	0.669	25.0			1
2,3,4,7,8-PeCDF	ND	U	0.583	25.0			1
1,2,3,4,7,8-HxCDF	0.308**JK**		0.173	25.0	0.80	1.000	1
1,2,3,6,7,8-HxCDF	ND	U	0.179	25.0			1
1,2,3,7,8,9-HxCDF	1.01**JK**		0.216	25.0	1.48	1.000	1
2,3,4,6,7,8-HxCDF	ND	U	0.198	25.0			1
1,2,3,4,6,7,8-HpCDF	0.584**JK**		0.0650	25.0	1.37	1.001	1
1,2,3,4,7,8,9-HpCDF	0.208**JK**		0.0720	25.0	0.35	1.000	1
OCDF	3.20**J**		0.552	50.0	0.98	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg/L
Lab Code:	EQ2500103-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/13/25 15:21
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551816	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551813

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	1.06	5.00			1
Total Penta-Dioxins	ND	U	0.580	25.0			1
Total Hexa-Dioxins	ND	U	0.262	25.0			1
Total Hepta-Dioxins	ND	U	0.488	25.0			1
Total Tetra-Furans	ND	U	0.776	5.00			1
Total Penta-Furans	ND	U	0.625	25.0			1
Total Hexa-Furans	ND	U	0.190	25.0			1
Total Hepta-Furans	ND	U	0.0690	25.0			1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	EQ2500103-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/13/25 15:21
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551816	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551813

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1504.741	75		25-164	0.78	1.021
13C-1,2,3,7,8-PeCDD	2000	1557.668	78		25-181	1.57	1.191
13C-1,2,3,4,7,8-HxCDD	2000	1292.780	65		32-141	1.28	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1472.973	74		28-130	1.30	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1388.364	69		23-140	1.07	1.066
13C-OCDD	4000	2631.256	66		17-157	0.90	1.139
13C-2,3,7,8-TCDF	2000	1240.160	62		24-169	0.79	0.992
13C-1,2,3,7,8-PeCDF	2000	1386.555	69		24-185	1.62	1.147
13C-2,3,4,7,8-PeCDF	2000	1460.758	73		21-178	1.60	1.180
13C-1,2,3,4,7,8-HxCDF	2000	1331.611	67		26-152	0.52	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1273.074	64		26-123	0.52	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1350.438	68		29-147	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1230.719	62		28-136	0.53	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1158.493	58		28-143	0.43	1.042
13C-1,2,3,4,7,8,9-HpCDF	2000	1313.505	66		26-138	0.43	1.079
37Cl-2,3,7,8-TCDD	800	1429.276	179		35-197	NA	1.022

Accuracy & Precision

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500103-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/13/25 22:39
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551825	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551813

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	172		0.945	5.00	0.76	1.001	1
1,2,3,7,8-PeCDD	944		0.355	25.0	1.60	1.001	1
1,2,3,4,7,8-HxCDD	993		0.198	25.0	1.28	1.000	1
1,2,3,6,7,8-HxCDD	887		0.170	25.0	1.26	1.000	1
1,2,3,7,8,9-HxCDD	953		0.178	25.0	1.27	1.007	1
1,2,3,4,6,7,8-HpCDD	975		0.250	25.0	1.06	1.000	1
OCDD	1950		1.88	50.0	0.89	1.000	1
2,3,7,8-TCDF	187		0.940	5.00	0.76	1.001	1
1,2,3,7,8-PeCDF	1020		0.588	25.0	1.49	1.001	1
2,3,4,7,8-PeCDF	933		0.505	25.0	1.47	1.001	1
1,2,3,4,7,8-HxCDF	884		0.193	25.0	1.18	1.000	1
1,2,3,6,7,8-HxCDF	903		0.185	25.0	1.19	1.000	1
1,2,3,7,8,9-HxCDF	1030		0.244	25.0	1.19	1.000	1
2,3,4,6,7,8-HxCDF	1040		0.221	25.0	1.20	1.000	1
1,2,3,4,6,7,8-HpCDF	1070		1.10	25.0	1.03	1.000	1
1,2,3,4,7,8,9-HpCDF	964		1.19	25.0	1.00	1.000	1
OCDF	1900		1.24	50.0	0.87	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500103-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/13/25 22:39
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551825	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551813

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	173		0.945	5.00	0.76		1
Total Penta-Dioxins	944		0.355	25.0	1.60		1
Total Hexa-Dioxins	2830		0.181	25.0	1.28		1
Total Hepta-Dioxins	975		0.250	25.0	1.06		1
Total Tetra-Furans	187		0.940	5.00	0.76		1
Total Penta-Furans	1980		0.545	25.0	1.32		1
Total Hexa-Furans	3850		0.208	25.0	1.18		1
Total Hepta-Furans	2030		1.14	25.0	1.03		1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	Percent
Lab Code:	EQ2500103-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/13/25 22:39
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551825	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551813

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1250.114	63		25-164	0.79	1.021
13C-1,2,3,7,8-PeCDD	2000	1884.896	94		25-181	1.57	1.190
13C-1,2,3,4,7,8-HxCDD	2000	1414.677	71		32-141	1.26	0.992
13C-1,2,3,6,7,8-HxCDD	2000	1603.455	80		28-130	1.28	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1646.234	82		23-140	1.09	1.066
13C-OCDD	4000	3238.650	81		17-157	0.91	1.139
13C-2,3,7,8-TCDF	2000	909.680	45		24-169	0.80	0.992
13C-1,2,3,7,8-PeCDF	2000	1512.184	76		24-185	1.61	1.147
13C-2,3,4,7,8-PeCDF	2000	1683.612	84		21-178	1.62	1.180
13C-1,2,3,4,7,8-HxCDF	2000	1380.814	69		26-152	0.52	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1321.574	66		26-123	0.53	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1275.519	64		29-147	0.52	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1219.693	61		28-136	0.51	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1302.716	65		28-143	0.44	1.042
13C-1,2,3,4,7,8,9-HpCDF	2000	1498.262	75		26-138	0.44	1.079
37Cl-2,3,7,8-TCDD	800	953.015	119		35-197	NA	1.022

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500103-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/13/25 23:28
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551826	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551813

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	179		0.734	5.00	0.78	1.001	1
1,2,3,7,8-PeCDD	983		0.397	25.0	1.62	1.001	1
1,2,3,4,7,8-HxCDD	1100		0.178	25.0	1.28	1.000	1
1,2,3,6,7,8-HxCDD	897		0.157	25.0	1.28	1.000	1
1,2,3,7,8,9-HxCDD	1010		0.162	25.0	1.27	1.007	1
1,2,3,4,6,7,8-HpCDD	1000		0.358	25.0	1.04	1.000	1
OCDD	2000		2.94	50.0	0.90	1.000	1
2,3,7,8-TCDF	200		0.757	5.00	0.75	1.001	1
1,2,3,7,8-PeCDF	1050		0.882	25.0	1.52	1.001	1
2,3,4,7,8-PeCDF	980		0.735	25.0	1.52	1.001	1
1,2,3,4,7,8-HxCDF	925		0.279	25.0	1.18	1.000	1
1,2,3,6,7,8-HxCDF	932		0.270	25.0	1.21	1.000	1
1,2,3,7,8,9-HxCDF	1070		0.376	25.0	1.19	1.000	1
2,3,4,6,7,8-HxCDF	1070		0.324	25.0	1.20	1.000	1
1,2,3,4,6,7,8-HpCDF	1090		0.986	25.0	1.00	1.000	1
1,2,3,4,7,8,9-HpCDF	1000		1.11	25.0	1.01	1.000	1
OCDF	2000		2.25	50.0	0.88	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500103-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/13/25 23:28
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551826	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551813

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	179		0.734	5.00	0.78		1
Total Penta-Dioxins	983		0.397	25.0	1.62		1
Total Hexa-Dioxins	3000		0.165	25.0	1.28		1
Total Hepta-Dioxins	1000		0.358	25.0	1.04		1
Total Tetra-Furans	200		0.757	5.00	0.75		1
Total Penta-Furans	2040		0.805	25.0	1.60		1
Total Hexa-Furans	4000		0.307	25.0	1.18		1
Total Hepta-Furans	2090		1.05	25.0	1.00		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500192
Project:	2387193	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	Percent
Lab Code:	EQ2500103-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/13/25 23:28
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/11/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551826	**Blank File Name:**	P551816
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551813

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1354.600	68		25-164	0.79	1.022
13C-1,2,3,7,8-PeCDD	2000	1632.958	82		25-181	1.60	1.191
13C-1,2,3,4,7,8-HxCDD	2000	1298.655	65		32-141	1.37	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1438.240	72		28-130	1.18	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1286.300	64		23-140	1.07	1.066
13C-OCDD	4000	2141.439	54		17-157	0.91	1.139
13C-2,3,7,8-TCDF	2000	1139.636	57		24-169	0.79	0.992
13C-1,2,3,7,8-PeCDF	2000	1390.244	70		24-185	1.62	1.148
13C-2,3,4,7,8-PeCDF	2000	1534.971	77		21-178	1.61	1.181
13C-1,2,3,4,7,8-HxCDF	2000	1316.250	66		26-152	0.52	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1279.912	64		26-123	0.52	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1173.594	59		29-147	0.53	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1147.339	57		28-136	0.52	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1050.074	53		28-143	0.44	1.042
13C-1,2,3,4,7,8,9-HpCDF	2000	1215.541	61		26-138	0.44	1.079
37Cl-2,3,7,8-TCDD	800	1041.518	130		35-197	NA	1.022

March 28, 2025 Service Request No:E2500217

SPL, Inc.-Ana-lab
101 Ibex Lane
Broussard, LA 70518

Laboratory Results for: BT TPDES Permit Comp

Dear Project Manager,

Enclosed are the results of the sample(s) submitted to our laboratory March 19, 2025
For your reference, these analyses have been assigned our service request number **E2500217.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	SPL, Inc.-Ana-lab	**Service Request No.:**	E2500217
Project:	BT TPDES Permit Comp	**Date Received:**	03/19/25
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 03/19/25.

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2500117: Laboratory Control Spike / **Duplicate Laboratory Control Spike (LCS/DLCS)** samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

B flags – Method Blanks

The Method Blank EQ2500117-01 contained low levels of target compounds below the Method Reporting Limit (MRL). The associated compounds in the samples are flagged with 'B' flags where the sample result is less than ten times the level detected in the method blank.

One compound, OCDD, was above the MRL (CRQL). ALS/Houston follows the ***EPA National Functional Guidelines for CDDs and CDFs, September 2005,*** which states on page 31, "The concentration of OCDD/OCDF in the method blank must be <3x the CRQL (MRL.):"

K flags

EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.

Detection Limits

Detection limits are calculated for each analyte in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

The TEQ Summary results for each sample have been calculated by ALS/Houston to include:

- WHO-2005 TEFs, The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds (M. Van den Berg et al., Toxicological Sciences 93(2):223-241, 2006)
- Non-detected compounds are not included in the 'Total'

- The 1:1 and associated dilution have been combined into one TEQ Summary report
- EPA-89 TEFs, "Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxins and Dibenzofurans (CDDs and CDFs)", 1989 EPA Update (EPA/625/3-89/016, March 1989)
- WHO-1998 TEFs, for PCBs, PCDDs, 21 PCDFs for humans and wildlife. (M. Van den Berg, et al., Environ Health Perspect 106: 775-792, 1998)

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: SPL, Inc.-Ana-lab **Service Request:**E2500217
Project: BT TPDES Permit Comp

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2500217-001	2389823	3/13/2025	0945

Service Request Summary

Folder #: **E2500217**
Client Name: SPL, Inc.-Ana-lab
Project Name: BT TPDES Permit Comp
Project Number:

Report To:

SPL, Inc.-Ana-lab
101 Ibex Lane
Broussard, LA 70518
USA

Phone Number: 903-984-0551
Cell Number:
Fax Number: 903-984-5914
E-mail: kilgore.projectmanagement@spllabs.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MLUCIO
Date Received: 03/19/25
Internal Due Date: 4/10/2025
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

3 1000 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved
Location: EHRMS-WIC 8E
Pressure Gas:
NPDES

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS Dioxins Furans/1613B
E2500217-001	2389823	Water	03/13/25 0945	II

Service Request Summary

Folder #: **E2500217**
Client Name: SPL, Inc.-Ana-lab
Project Name: BT TPDES Permit Comp
Project Number:

Report To:

SPL, Inc.-Ana-lab
101 Ibex Lane
Broussard, LA 70518
USA

Phone Number: 903-984-0551
Cell Number:
Fax Number: 903-984-5914
E-mail: kilgore.projectmanagement@spllabs.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MLUCIO
Date Received: 03/19/25
Internal Due Date: 4/10/2025
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

3 1000 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved

Location: EHRMS-WIC 8E

Pressure Gas:

NPDES

Data Qualifiers

HRMS Qualifier Set

*	Indicates the samples were extracted outside of the recommended holding time.
B	Indicates the associated analyte was found in the method blank at >1/10th the reported value.
E	Estimated value. The reported concentration is above the calibration range of the instrument.
J	Estimated value. The reported concentration is below the MRL.
K	The ion abundance ratio between the primary and secondary ions were outside of theoretical acceptance limits.The concentration of this analyte should be considered as an estimate.
P	Chlorodiphenyl ether interference was present at the retention time of the target analyte. Reported result should be considered an estimate.
Q	Monitored lock-mass indicates matrix-interference. Reported result is estimated.
S	Signal saturated detector. Result reported from dilution.
U	Compound was analyzed for, but was not detected (ND).
X	See Case Narrative.
Y	Isotopically Labeled Standard recovery outside of acceptance limits. In all cases, the signal-to-nois ratios are greater than 10:1, making the recoveries acceptable.
i	The MDL/MRL have been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Hawaii Department of Health	2024	4/30/2025
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441	6/30/2025
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025

ALS ENVIRONMENTAL – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID: E2500217 | DB-5MSUI (circled) | SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date:	Analyst:	Samples:
03/28/25	LKL	001

Second Level - Data Review – to be filled by person doing peer review

Date:	Analyst:	Samples:
03/28/25	KW	001

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

E2500217 5
SPL, Inc.-Ana-lab
BT TPDES Permit Comp

SPL The Science of Sure

SUBCONTRACT CHAIN OF CUSTODY

Printed 03/13/2025 Page 1 of 1

Subcontract to:

ALS Laboratory Group/Houstor
10450 Stancliff Rd
Houston TX 77099

/ -

Sample 2389823

Taken: 03/13/2025 09:45:00

COMPOSITE

Normal TAT

coll_temp

BT TPDES Permit Comp

COMP 3-12 1045- 3-13 0945

#1 Autosampler #6359 Bottle #001990
Sample poured Date: 3-13-25 Time0945

#2 Autosampler #7240 Bottle #001500

Sample poured Date 3-13-25 Time:1010

N 3 Amber Glass Liter w/Teflon lined lid

Requested Test(s)

!DIX Dioxins and Furans Subcontract 1613

Shipping Temp 4C

Previous Results:

Date Time	Relinquished	Date Time	Received
03/13/2025 15:53	Affiliation SPL Kilgore Printed Name Doris Stoker Signature	03/13/2025 15:53	Affiliation SPL Kilgore Printed Name Michael D. Gribble Signature Michael D Gribble
3/13/25 1613	Printed Name Michael D. Gribble Affiliation SPL Kilgore Signature Michael D Gribble		Printed Name Affiliation Signature
	Printed Name Affiliation Signature		Printed Name Affiliation Signature
	Printed Name Affiliation Signature	03/14/25 0930	Printed Name Affiliation Signature

Sample Received on Ice? [ ] Yes [ ] No
Cooler/Sample Secure? [ ] Yes [ ] No

Method of Shipment: [ ] UPS [ ] Bus [ ] FedEx [ ] Lone Star [ ] Hand Delivered [ ] Other

If Shipped: Tracking Number & Temp - See Attached

Hand Delivered to Region [ ]

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments Cooler + Foam Temp w/in 2 hrs 3.4 2.2 cf 0.0

Project 1139763

Corporate - Kilgore: 2600 Dudley Road Kilgore TX 75662

Kilgore.ProjectManagement@spllabs.com

E2500217 5
SPL, Inc.-Ana-lab
BT TPDES Permit Comp

10450 Stancliff Road, Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Client: SPL Date: 3.14.25 WO#:

Time Received: 9:30 Received by: SM BO#:

Matrices: Solid/Sludge Water Oil Wipes Hydrocarbon Liquid Other

Kit ID/Cooler ID	Trip Blank ID	Cooler Temp (C) Observed/Corrected	IR #	Temp BLK Present?
Foam	—	2.2 / 2.2	34	Y N
		/		Y N
		/		Y N
		/		Y N
		/		Y N

Delivery Method: FedEx UPS Greyhound ALS Client Other

Date/Time of Unpacking: 3.19.25 11:00 Unpacked by: ML

Shipping container/cooler in good condition?	Yes	No	Not Present
Custody seals intact on shipping container/cooler?	Yes	No	Not Present
Custody seals intact on sample bottles?	Yes	No	Not Present
Chain of Custody present?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of Custody - Sampler's name present?	Yes	No	
Chain of Custody agrees with sample labels?	Yes	No	
Samples in proper container/bottle?	Yes	No	
VOA/TX1005/1006 Solids in hermetically Sealed Vials:	Yes	No	No VOA/TX1005/1006 Solid
Sample containers intact?	Yes	No	
Sufficient sample volume for indicated test?	Yes	No	
All samples received within holding time?	Yes	No	
Container/Temp Blank temperature in compliance?	Yes	No	
Water - VOA vials have zero headspace?	Yes	No	N/A No VOA submitted
Non-VOA waters preserved with HCl, H2SO4, HNO3 are pH <2?			Yes No N/A
Waters preserved with NaOH/Ascorbic acid are pH>12?	Yes	No	N/A
pH adjusted?	Yes*	No	N/A *See Preservation Logbook

pH adjusted by: _____ **pH Paper Lot:** _____

10450 Stancliff Rd., Suite 210
Houston, TX 77099
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F: +1 281 530 5887
www.alsglobal.com

SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

1613B Liquid RC#:

Due Dates: ()

EQ#: 117

Prep Run#: 454167
Team: Semivoa GCMS/MAITRI.DESAI

Prep WorkFlow: OrgExtAq(365)
Prep Method:

Status: Draft
Prep Date/Time: 3/20/25 01:36 PM

#	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext.	pH (mL)	Cl	I	M	C	Sample Description
1	E2500208-001	HC05114-02	.01		1613B / Dioxins Furans	Water	996	5	x	00	x	00	1476.7 V.lightgreen 431
2	E2500215-001	BP-2440 MULTI-CHEM BS	.01		1613B / Dioxins Furans	Wastewater	1039	6	x		x		1561.2 Pintgreen 523.0
3	E2500215-002	BP-2445 AM ACRYL	.01		1613B / Dioxins Furans	Wastewater	1025	6	x		x		1548 Amber 523.3
4	E2500215-003	2450 INTERGULF LS BS	.01		1613B / Dioxins Furans	Wastewater	1053	7	x		x		1565.2 Cabbagebrownish 513
5	E2500215-004	BP-2460 DIXIE BS	.01		1613B / Dioxins Furans	Wastewater	1009	8	x		x		1524 Pintgreen 514.5
6	E2500216-001	OD-005 ORREX	.01		1613B / Dioxins Furans	Wastewater	1036	6	x		x		1534 cloudy 498.5
7	E2500217-001	2389823	.01		1613B / Dioxins Furans	Water	976	5	x		x		1417.8 V.lightgreen 442.7
8	E2500218-001	2391350	.01		1613B / Dioxins Furans	Water	971	6	x		x		1417.9 lightbrown 447
9	E2500219-001	001 East Outfall Comp (031225)	.01		1613B / Dioxins Furans	Water	1040	6	x		x		1490.3 Amber 450
10	E2500219-002	002West Outfall (031225)	.02		1613B / Dioxins Furans	Water	1045	5	x		x		1496.6 Amber 451.3
11	E2500222-001	25C0110-08	.02		1613B / Dioxins Furans	Water	1012	10/7	x		x		1461.5 Clear 449.5
12	E2500222-002	25C0110-07	.01		1613B / Dioxins Furans	Water	1014	9	x		x		1460.1 Clear 445.8
13	E2500224-001	Cameo	.01		1613B / Dioxins Furans	Water	1029	5	x		x		1479.3 cloudy 449.5
14	EQ2500117-01	MB			1613B / Dioxins Furans	Liquid	1000				x		Organic-free water
15	EQ2500117-02	LCS			1613B / Dioxins Furans	Liquid	1000				00		Organic-free water
16	EQ2500117-03	DLCS			1613B / Dioxins Furans	Liquid	1000				x		Organic-free water

Note:- E2500215-01, 03 had lot of emotions.
E2500215-03 evaporated more than 1 ml.

Spiketime. 3/20/25 3:40pm

I: 1613B LCS. 240693C 10ul of 2-4ng/ml

M: 1613B MCS. 240652 C 100 ul of 2-20 ng/ml

C: 1613B CCVS 240729C 10 ul of 8 ng/ml

MD 3/24/25

Supplementary Analytical Record

General Information:

Batch Number:	117
Prep. Run Number:	1154167
Method:	1613B
Matrix:	Water
Apparatus Used:	Lg. Soxhlets / Small Soxhlets / (Half-Gallon Jars) / 250 mL Jars

Extraction

Hexane Lot #:	240233	Chlorine Strips Lot #:	235876
Dichloromethane Lot #:	239815	pH Strips Lot #:	240082
Toluene Lot #:	239437	Sodium Sulfate Lot #:	235888
Tridecane Lot #:	239604	Acid Lot#:	
Methanol Lot #:		Sodium Thiosulfate Lot#:	
Corn Oil Lot #:		Resin Lot #:	
Balance Serial Number:	HRMS-01	Ottowa Sand ID:	

Rotovaps: Rotovap 1 ( ) or Rotovap 2 ( ) Analyst:

Acid Clean-Up

Sulfuric Acid Lot#:	N/A.
Sodium Chloride Lot #:	

Column Clean-Up

Hexane Lot #:	240233	NaOH Silica Gel ID:	326 220412
Dichloromethane Lot#:	239815	H2SO4 Silica Gel ID:	326220416
Toluene Lot #:	239437	Silica Gel Lot #:	236863
Ethyl Acetate Lot #:	238820	Carbon Lot #:	236342
Glass Wool Lot #:	239605	Sodium Hydroxide Lot #:	
Balance Serial Number:	HRMS-01	Sulfuric Acid Lot #:	
		Sodium Sulfate Lot #:	235888

Additional Notes:

Step-Time Processing:

Extraction: 3/20/25

Spike Time 3:44PM Start Time 3/21/25 9:00 AM

Acid Clean-Up: 3/24/25 9 to 10 am

Column Clean-Up: ------NA------ 11: to 3pm.

Final Volume: 3/25/25 9:00 am to 1:30pm.

Soxhlet:

Date/Time Up:

Date/Time Down:

Abbreviation Key:

Bench Sheet:
B#: LIMS bottle number
V: Chlorine Check (X = False)
I: Internal Standard Witness (Initials)
M: Matrix Witness (Initials)
C: Cleanup Standard Witness (Initials)

STD Tracking:

I: Internal Spike (LIMS ID; Name; Conc; Initials)
M: Matrix Spike (LIMS ID; Name; Conc; Initials)
C: Cleanup Spike (LIMS ID; Name; Conc; Initials)

*Where additional standards are added to the sample, distinctions are made using unique symbols to indicate which standards are added to which samples.

Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	03/13/25 09:45
Sample Matrix:	Water	**Date Received:**	03/19/25 11:35
Sample Name:	2389823	**Units:**	pg/L
Lab Code:	E2500217-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/26/25 01:47
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	976mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552015	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552011

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	1.25	5.12			1
1,2,3,7,8-PeCDD	ND	U	0.800	25.6			1
1,2,3,4,7,8-HxCDD	1.74**BJK**		0.261	25.6	1.92	1.000	1
1,2,3,6,7,8-HxCDD	0.492**BJK**		0.234	25.6	0.75	1.000	1
1,2,3,7,8,9-HxCDD	ND	U	0.240	25.6			1
1,2,3,4,6,7,8-HpCDD	2.02**BJ**		0.179	25.6	1.13	1.000	1
OCDD	9.47**BJ**		0.808	51.2	0.98	1.000	1
2,3,7,8-TCDF	ND	U	1.20	5.12			1
1,2,3,7,8-PeCDF	1.09**J**		0.631	25.6	1.47	1.000	1
2,3,4,7,8-PeCDF	ND	U	0.560	25.6			1
1,2,3,4,7,8-HxCDF	0.274**JK**		0.184	25.6	0.75	1.000	1
1,2,3,6,7,8-HxCDF	ND	U	0.178	25.6			1
1,2,3,7,8,9-HxCDF	0.928**BJK**		0.255	25.6	0.73	1.001	1
2,3,4,6,7,8-HxCDF	0.326**BJ**		0.220	25.6	1.19	1.000	1
1,2,3,4,6,7,8-HpCDF	0.641**BJK**		0.277	25.6	0.46	1.000	1
1,2,3,4,7,8,9-HpCDF	0.572**BJK**		0.325	25.6	2.79	1.000	1
OCDF	4.41**BJK**		1.15	51.2	0.56	1.004	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	03/13/25 09:45
Sample Matrix:	Water	**Date Received:**	03/19/25 11:35
Sample Name:	2389823	**Units:**	pg/L
Lab Code:	E2500217-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/26/25 01:47
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	976mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552015	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552011

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	1.25	5.12			1
Total Penta-Dioxins	ND	U	0.800	25.6			1
Total Hexa-Dioxins	0.881**J**		0.244	25.6	1.25		1
Total Hepta-Dioxins	3.57**J**		0.179	25.6	0.95		1
Total Tetra-Furans	ND	U	1.20	5.12			1
Total Penta-Furans	1.09**J**		0.595	25.6	1.47		1
Total Hexa-Furans	0.529**J**		0.204	25.6	1.25		1
Total Hepta-Furans	ND	U	0.300	25.6			1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	03/13/25 09:45
Sample Matrix:	Water	**Date Received:**	03/19/25 11:35
Sample Name:	2389823	**Units:**	Percent
Lab Code:	E2500217-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/26/25 01:47
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	976mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552015	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552011

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1154.499	58		25-164	0.79	1.023
13C-1,2,3,7,8-PeCDD	2000	1303.412	65		25-181	1.58	1.201
13C-1,2,3,4,7,8-HxCDD	2000	1210.892	61		32-141	1.37	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1285.829	64		28-130	1.23	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1196.528	60		23-140	1.07	1.067
13C-OCDD	4000	2403.013	60		17-157	0.90	1.139
13C-2,3,7,8-TCDF	2000	874.237	44		24-169	0.79	0.991
13C-1,2,3,7,8-PeCDF	2000	1088.540	54		24-185	1.59	1.156
13C-2,3,4,7,8-PeCDF	2000	1153.267	58		21-178	1.59	1.190
13C-1,2,3,4,7,8-HxCDF	2000	1171.960	59		26-152	0.51	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1143.898	57		26-123	0.51	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1034.557	52		29-147	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1001.470	50		28-136	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	981.251	49		28-143	0.43	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	1060.329	53		26-138	0.43	1.079
37Cl-2,3,7,8-TCDD	800	1351.840	169		35-197	NA	1.024

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	03/13/25 09:45
Sample Matrix:	Water	**Date Received:**	03/19/25 11:35
Sample Name:	2389823	**Units:**	pg/L
Lab Code:	E2500217-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	1.25	5.12	1	1	
1,2,3,7,8-PeCDD	ND	0.800	25.6	1	1	
1,2,3,4,7,8-HxCDD	**1.74**	0.261	25.6	1	0.1	0.174
1,2,3,6,7,8-HxCDD	**0.492**	0.234	25.6	1	0.1	0.0492
1,2,3,7,8,9-HxCDD	ND	0.240	25.6	1	0.1	
1,2,3,4,6,7,8-HpCDD	**2.02**	0.179	25.6	1	0.01	0.0202
OCDD	**9.47**	0.808	51.2	1	0.0003	0.00284
2,3,7,8-TCDF	ND	1.20	5.12	1	0.1	
1,2,3,7,8-PeCDF	**1.09**	0.631	25.6	1	0.03	0.0327
2,3,4,7,8-PeCDF	ND	0.560	25.6	1	0.3	
1,2,3,4,7,8-HxCDF	**0.274**	0.184	25.6	1	0.1	0.0274
1,2,3,6,7,8-HxCDF	ND	0.178	25.6	1	0.1	
1,2,3,7,8,9-HxCDF	**0.928**	0.255	25.6	1	0.1	0.0928
2,3,4,6,7,8-HxCDF	**0.326**	0.220	25.6	1	0.1	0.0326
1,2,3,4,6,7,8-HpCDF	**0.641**	0.277	25.6	1	0.01	0.00641
1,2,3,4,7,8,9-HpCDF	**0.572**	0.325	25.6	1	0.01	0.00572
OCDF	**4.41**	1.15	51.2	1	0.0003	0.00132
		Total TEQ				0.445

2005 WHO TEFs, ND = 0

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg/L
Lab Code:	EQ2500117-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/25/25 12:24
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551999	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551996

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	1.04	5.00			1
1,2,3,7,8-PeCDD	0.523**JK**		0.373	25.0	2.83	1.001	1
1,2,3,4,7,8-HxCDD	1.29**J**		0.304	25.0	1.14	1.000	1
1,2,3,6,7,8-HxCDD	0.323**JK**		0.269	25.0	0.99	1.001	1
1,2,3,7,8,9-HxCDD	ND	U	0.278	25.0			1
1,2,3,4,6,7,8-HpCDD	1.76**JK**		0.184	25.0	1.40	1.000	1
OCDD	8.28**J**		0.447	50.0	0.92	1.000	1
2,3,7,8-TCDF	ND	U	0.767	5.00			1
1,2,3,7,8-PeCDF	ND	U	0.253	25.0			1
2,3,4,7,8-PeCDF	ND	U	0.243	25.0			1
1,2,3,4,7,8-HxCDF	ND	U	0.147	25.0			1
1,2,3,6,7,8-HxCDF	ND	U	0.150	25.0			1
1,2,3,7,8,9-HxCDF	0.714**JK**		0.203	25.0	1.81	1.001	1
2,3,4,6,7,8-HxCDF	0.329**JK**		0.175	25.0	0.73	1.000	1
1,2,3,4,6,7,8-HpCDF	1.60**J**		0.0270	25.0	0.92	1.000	1
1,2,3,4,7,8,9-HpCDF	0.317**JK**		0.0330	25.0	1.96	1.000	1
OCDF	19.1**J**		0.837	50.0	0.88	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg/L
Lab Code:	EQ2500117-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/25/25 12:24
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551999	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551996

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	1.04	5.00			1
Total Penta-Dioxins	ND	U	0.373	25.0			1
Total Hexa-Dioxins	1.29**J**		0.283	25.0	1.14		1
Total Hepta-Dioxins	2.21**J**		0.184	25.0	1.11		1
Total Tetra-Furans	ND	U	0.767	5.00			1
Total Penta-Furans	ND	U	0.248	25.0			1
Total Hexa-Furans	ND	U	0.166	25.0			1
Total Hepta-Furans	1.78**J**		0.0300	25.0	0.92		1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	EQ2500117-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/25/25 12:24
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P551999	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551996

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1568.990	78		25-164	0.78	1.023
13C-1,2,3,7,8-PeCDD	2000	1650.879	83		25-181	1.59	1.201
13C-1,2,3,4,7,8-HxCDD	2000	1674.081	84		32-141	1.28	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1766.960	88		28-130	1.25	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1517.028	76		23-140	1.09	1.067
13C-OCDD	4000	2716.323	68		17-157	0.92	1.139
13C-2,3,7,8-TCDF	2000	1233.054	62		24-169	0.79	0.991
13C-1,2,3,7,8-PeCDF	2000	1457.515	73		24-185	1.60	1.156
13C-2,3,4,7,8-PeCDF	2000	1475.898	74		21-178	1.62	1.190
13C-1,2,3,4,7,8-HxCDF	2000	1650.005	83		26-152	0.51	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1541.380	77		26-123	0.52	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1476.530	74		29-147	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1426.535	71		28-136	0.50	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1267.954	63		28-143	0.42	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	1325.502	66		26-138	0.43	1.080
37Cl-2,3,7,8-TCDD	800	866.193	108		35-197	NA	1.024

Accuracy & Precision

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Analyzed:**	03/25/25
Sample Matrix:	Water	**Date Extracted:**	03/21/25

Duplicate Lab Control Sample Summary
Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Units:**	pg/L
Prep Method:	Method Sep Funnel/Jar	**Basis:**	NA
		Analysis Lot:	874136

	Lab Control Sample EQ2500117-02			Duplicate Lab Control Sample EQ2500117-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,3,4,6,7,8-HpCDD	921	1000	92	948	1000	95	70-140	3	50
1,2,3,4,7,8-HxCDD	950	1000	95	993	1000	99	70-164	4	50
1,2,3,6,7,8-HxCDD	825	1000	83	851	1000	85	76-134	3	50
1,2,3,7,8,9-HxCDD	859	1000	86	921	1000	92	64-162	7	50
1,2,3,7,8-PeCDD	862	1000	86	954	1000	95	70-142	10	50
2,3,7,8-TCDD	164	200	82	181	200	91	67-158	10	50
OCDD	1870	2000	94	1920	2000	96	78-144	2	50
1,2,3,4,6,7,8-HpCDF	927	1000	93	993	1000	99	82-122	7	50
1,2,3,4,7,8,9-HpCDF	896	1000	90	913	1000	91	78-138	2	50
1,2,3,4,7,8-HxCDF	821	1000	82	813	1000	81	72-134	1	50
1,2,3,6,7,8-HxCDF	849	1000	85	857	1000	86	84-130	1	50
1,2,3,7,8,9-HxCDF	939	1000	94	917	1000	92	78-130	2	50
1,2,3,7,8-PeCDF	912	1000	91	948	1000	95	80-134	4	50
2,3,4,6,7,8-HxCDF	916	1000	92	975	1000	98	70-156	6	50
2,3,4,7,8-PeCDF	843	1000	84	910	1000	91	68-160	8	50
2,3,7,8-TCDF	163	200	81	190	200	95	75-158	16	50
OCDF	1820	2000	91	1920	2000	96	63-170	6	50

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500117-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/25/25 19:50
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552008	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551996

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	164		0.896	5.00	0.78	1.001	1
1,2,3,7,8-PeCDD	862		0.551	25.0	1.63	1.000	1
1,2,3,4,7,8-HxCDD	950		0.204	25.0	1.24	1.000	1
1,2,3,6,7,8-HxCDD	825		0.178	25.0	1.24	1.000	1
1,2,3,7,8,9-HxCDD	859		0.186	25.0	1.31	1.007	1
1,2,3,4,6,7,8-HpCDD	921		0.495	25.0	1.06	1.000	1
OCDD	1870		4.54	50.0	0.90	1.000	1
2,3,7,8-TCDF	163		1.01	5.00	0.69	1.001	1
1,2,3,7,8-PeCDF	912		0.547	25.0	1.47	1.000	1
2,3,4,7,8-PeCDF	843		0.509	25.0	1.47	1.001	1
1,2,3,4,7,8-HxCDF	821		0.381	25.0	1.17	1.000	1
1,2,3,6,7,8-HxCDF	849		0.369	25.0	1.19	1.000	1
1,2,3,7,8,9-HxCDF	939		0.519	25.0	1.16	1.000	1
2,3,4,6,7,8-HxCDF	916		0.458	25.0	1.15	1.000	1
1,2,3,4,6,7,8-HpCDF	927		1.46	25.0	0.98	1.000	1
1,2,3,4,7,8,9-HpCDF	896		1.71	25.0	0.99	1.000	1
OCDF	1820		1.37	50.0	0.86	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500117-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/25/25 19:50
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552008	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551996

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	164		0.896	5.00	0.78		1
Total Penta-Dioxins	862		0.551	25.0	1.63		1
Total Hexa-Dioxins	2630		0.189	25.0	1.24		1
Total Hepta-Dioxins	921		0.495	25.0	1.06		1
Total Tetra-Furans	163		1.01	5.00	0.69		1
Total Penta-Furans	1760		0.528	25.0	1.71		1
Total Hexa-Furans	3490		0.424	25.0	1.17		1
Total Hepta-Furans	1820		1.58	25.0	0.98		1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	Percent
Lab Code:	EQ2500117-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/25/25 19:50
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552008	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551996

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1239.335	62		25-164	0.78	1.023
13C-1,2,3,7,8-PeCDD	2000	1325.222	66		25-181	1.57	1.201
13C-1,2,3,4,7,8-HxCDD	2000	1259.319	63		32-141	1.25	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1312.551	66		28-130	1.28	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1148.079	57		23-140	1.07	1.067
13C-OCDD	4000	2028.152	51		17-157	0.90	1.138
13C-2,3,7,8-TCDF	2000	963.147	48		24-169	0.79	0.991
13C-1,2,3,7,8-PeCDF	2000	1130.650	57		24-185	1.61	1.156
13C-2,3,4,7,8-PeCDF	2000	1184.926	59		21-178	1.62	1.190
13C-1,2,3,4,7,8-HxCDF	2000	1240.534	62		26-152	0.51	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1187.881	59		26-123	0.51	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1105.904	55		29-147	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1055.101	53		28-136	0.50	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	973.994	49		28-143	0.43	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	1022.396	51		26-138	0.43	1.079
37Cl-2,3,7,8-TCDD	800	1377.818	172		35-197	NA	1.024

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500117-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/25/25 20:39
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552009	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551996

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	181		1.28	5.00	0.76	1.001	1
1,2,3,7,8-PeCDD	954		0.380	25.0	1.64	1.000	1
1,2,3,4,7,8-HxCDD	993		0.288	25.0	1.28	1.000	1
1,2,3,6,7,8-HxCDD	851		0.260	25.0	1.27	1.000	1
1,2,3,7,8,9-HxCDD	921		0.267	25.0	1.28	1.007	1
1,2,3,4,6,7,8-HpCDD	948		0.590	25.0	1.07	1.000	1
OCDD	1920		3.18	50.0	0.89	1.000	1
2,3,7,8-TCDF	190		0.939	5.00	0.69	1.001	1
1,2,3,7,8-PeCDF	948		0.669	25.0	1.48	1.001	1
2,3,4,7,8-PeCDF	910		0.644	25.0	1.42	1.001	1
1,2,3,4,7,8-HxCDF	813		0.375	25.0	1.12	1.001	1
1,2,3,6,7,8-HxCDF	857		0.374	25.0	1.11	1.000	1
1,2,3,7,8,9-HxCDF	917		0.496	25.0	1.17	1.000	1
2,3,4,6,7,8-HxCDF	975		0.441	25.0	1.15	1.000	1
1,2,3,4,6,7,8-HpCDF	993		1.68	25.0	0.97	1.000	1
1,2,3,4,7,8,9-HpCDF	913		1.95	25.0	0.98	1.000	1
OCDF	1920		3.85	50.0	0.87	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500117-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/25/25 20:39
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552009	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551996

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	181		1.28	5.00	0.76		1
Total Penta-Dioxins	961		0.380	25.0	1.64		1
Total Hexa-Dioxins	2760		0.271	25.0	1.28		1
Total Hepta-Dioxins	948		0.590	25.0	1.07		1
Total Tetra-Furans	191		0.939	5.00	0.69		1
Total Penta-Furans	1880		0.656	25.0	1.40		1
Total Hexa-Furans	3560		0.415	25.0	1.12		1
Total Hepta-Furans	1910		1.81	25.0	0.97		1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500217
Project:	BT TPDES Permit Comp	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	Percent
Lab Code:	EQ2500117-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	03/25/25 20:39
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/21/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552009	**Blank File Name:**	P551999
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P551996

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1449.355	72		25-164	0.78	1.023
13C-1,2,3,7,8-PeCDD	2000	1583.558	79		25-181	1.57	1.201
13C-1,2,3,4,7,8-HxCDD	2000	1649.314	82		32-141	1.29	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1677.692	84		28-130	1.28	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1665.416	83		23-140	1.07	1.067
13C-OCDD	4000	2945.625	74		17-157	0.91	1.138
13C-2,3,7,8-TCDF	2000	1292.708	65		24-169	0.82	0.991
13C-1,2,3,7,8-PeCDF	2000	1558.027	78		24-185	1.61	1.156
13C-2,3,4,7,8-PeCDF	2000	1580.653	79		21-178	1.63	1.190
13C-1,2,3,4,7,8-HxCDF	2000	1710.163	86		26-152	0.53	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1615.135	81		26-123	0.52	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1519.302	76		29-147	0.53	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1468.457	73		28-136	0.52	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1444.206	72		28-143	0.43	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	1584.956	79		26-138	0.43	1.079
37Cl-2,3,7,8-TCDD	800	893.746	112		35-197	NA	1.024

April 03, 2025 Service Request No:E2500232

SPL, Inc.-Ana-lab
101 Ibex Lane
Broussard, LA 70518

Laboratory Results for: BT TPDES Permit Comp

Dear Project Manager,

Enclosed are the results of the sample(s) submitted to our laboratory March 21, 2025
For your reference, these analyses have been assigned our service request number **E2500232.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	SPL, Inc.-Ana-lab	**Service Request No.:**	E2500232
Project:	BT TPDES Permit Comp	**Date Received:**	03/21/25
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 03/21/25.

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2500125: Laboratory Control Spike / **Duplicate Laboratory Control Spike (LCS/DLCS)** samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

B flags – Method Blanks

The Method Blank EQ2500125-01 contained low levels of target compounds below the Method Reporting Limit (MRL). The associated compounds in the samples are flagged with 'B' flags where the sample result is less than ten times the level detected in the method blank.

One compound, OCDD, was above the MRL (CRQL). ALS/Houston follows the ***EPA National Functional Guidelines for CDDs and CDFs, September 2005,*** which states on page 31, "The concentration of OCDD/OCDF in the method blank must be <3x the CRQL (MRL.):"

K flags

EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.

Detection Limits

Detection limits are calculated for each analyte in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

The TEQ Summary results for each sample have been calculated by ALS/Houston to include:

- WHO-2005 TEFs, The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds (M. Van den Berg et al., Toxicological Sciences 93(2):223-241, 2006)
- Non-detected compounds are not included in the 'Total'
- The 1:1 and associated dilution have been combined into one TEQ Summary report
- EPA-89 TEFs, "Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxins and Dibenzofurans (CDDs and CDFs)", 1989 EPA Update (EPA/625/3-89/016, March 1989)

- WHO-1998 TEFs, for PCBs, PCDDs, 21 PCDFs for humans and wildlife. (M. Van den Berg, et al., Environ Health Perspect 106: 775-792, 1998)

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: SPL, Inc.-Ana-lab **Service Request:**E2500232
Project: BT TPDES Permit Comp/2392060

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2500232-001	2392060	3/21/2025	0925

Service Request Summary

Folder #: **E2500232**
Client Name: SPL, Inc.-Ana-lab
Project Name: BT TPDES Permit Comp
Project Number: 2392060

Report To:

SPL, Inc.-Ana-lab
101 Ibex Lane
Broussard, LA 70518
USA

Phone Number: 903-984-0551
Cell Number:
Fax Number: 903-984-5914
E-mail: kilgore.projectmanagement@spllabs.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MLUCIO
Date Received: 03/21/25
Internal Due Date: 4/11/2025
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

3 1000 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved
Location: EHRMS-WIC 9E
Pressure Gas:
NPDES

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS Dioxins Furans/1613B
E2500232-001	2392060	Water	03/21/25 0925	II

Service Request Summary

Folder #: **E2500232**
Client Name: SPL, Inc.-Ana-lab
Project Name: BT TPDES Permit Comp
Project Number: 2392060

Report To:

SPL, Inc.-Ana-lab
101 Ibex Lane
Broussard, LA 70518
USA

Phone Number: 903-984-0551
Cell Number:
Fax Number: 903-984-5914
E-mail: kilgore.projectmanagement@spllabs.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MLUCIO
Date Received: 03/21/25
Internal Due Date: 4/11/2025
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

3 1000 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved

Location: EHRMS-WIC 9E

Pressure Gas:

NPDES

Data Qualifiers

HRMS Qualifier Set

*	Indicates the samples were extracted outside of the recommended holding time.
B	Indicates the associated analyte was found in the method blank at >1/10th the reported value.
E	Estimated value. The reported concentration is above the calibration range of the instrument.
J	Estimated value. The reported concentration is below the MRL.
K	The ion abundance ratio between the primary and secondary ions were outside of theoretical acceptance limits.The concentration of this analyte should be considered as an estimate.
P	Chlorodiphenyl ether interference was present at the retention time of the target analyte. Reported result should be considered an estimate.
Q	Monitored lock-mass indicates matrix-interference. Reported result is estimated.
S	Signal saturated detector. Result reported from dilution.
U	Compound was analyzed for, but was not detected (ND).
X	See Case Narrative.
Y	Isotopically Labeled Standard recovery outside of acceptance limits. In all cases, the signal-to-nois ratios are greater than 10:1, making the recoveries acceptable.
i	The MDL/MRL have been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Hawaii Department of Health	2024	4/30/2025
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441	6/30/2025
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025

ALS ENVIRONMENTAL – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID: E2500232 | DB-5MSUI | SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date:	Analyst:	Samples:
04/03/25	LKL	001

Second Level - Data Review – to be filled by person doing peer review

Date:	Analyst:	Samples:
04/03/25	KJ	001

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
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2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

SPL
The Science of Sure

SUBCONTRACT CHAIN OF CUSTODY

Printed 03/20/2025 Page 1 of 1

Subcontract to:

ALS Laboratory Group/Houstor
10450 Stancliff Rd
Houston TX 77099

/ -

Sample 2392060

Taken: 03/20/2025 07:50:00

COMPOSITE

Normal TAT

coll_temp

BT TPDES Permit Comp

#1 Autosampler #7241 Bottle #001501
Sample poured Date:3-20-25 Time:0930

#2 Autosampler #7240 Bottle #001501

Sample poured Date:7240 Time:0945

3 x Amber Glass Liter w/Teflon lined lid

Requested Test(s)

!DIX Dioxins and Furans Subcontract 1613

Shipping Temp 4C

Previous Results:

Date Time	Relinquished	Date Time	Received
03/20/2025 13:59	Affiliation SPL Kilgore	03/20/2025 13:59	Affiliation SPL Kilgore
	Printed Name Doris Stoker		Printed Name
	Signature		Signature
3.20	Printed Name Doug Swaim - SPL, Inc. Affiliation SPL Kilgore		Printed Name Affiliation
	Signature		Signature
	Printed Name Affiliation		Printed Name Affiliation
	Signature		Signature
	Printed Name Affiliation 03/21/25		Printed Name Affiliation
	Signature 09:25		Signature

Sample Received on Ice? [ ] Yes [ ] No
Cooler/Sample Secure? [ ] Yes [ ] No

Method of Shipment: [ ] UPS [ ] Bus [ ] FedEx [ ] Lone Star [ ] Hand Delivered [ ] Other

If Shipped: Tracking Number & Temp - See Attached

Hand Delivered to Region [ ]

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments

Cooler Form Temp IR 2.3 34 CF 0.0

Project 1140559

Corporate - Kilgore: 2600 Dudley Road Kilgore TX 75662

Kilgore.ProjectManagement@spllabs.com


ORIGIN ID:GGGA (903) 984-0551
MIKE GRIBBLE
ANA-LAB CORPORATION
2600 DUDLEY RD
KILGORE, TX 75662
UNITED STATES US
SHIP DATE: 20MAR25
ACTWGT: 18.00 LB MAN
CAD: 0949542/CAFE3855
DIMS: 14x12x12 IN
BILL SENDER
TO ENVIROMENTAL DIVISION
ALS
10450 STANCLIFF RD
HOUSTON TX 77099
(281) 530-5666
INV:
PO:
REF:
DEPT:
FedEx Express
TRK# 0201 4131 9516 8003
FRI - 21 MAR 10:30A
PRIORITY OVERNIGHT
XP SGRA
77099
TX-US IAH
NOT WRITE OR MARK
CLASS 9 LABEL)
FedEx M-3650 11/13 Item # 106426
UN 1845
Part # 156148-434 MTW EXP 05/24

10450 Stancliff Road, Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Client: SPL Date: 3.21.25 WO#:

Time Received: 9:25 Received by: BO#:

Matrices: Solid/Sludge Water Oil Wipes Hydrocarbon Liquid Other

Kit ID/Cooler ID	Trip Blank ID	Cooler Temp (C) Observed/Corrected	IR #	Temp BLK Present?
Fedex	—	2.3 / 2.3	34	Y N
		/		Y N
		/		Y N
		/		Y N
		/		Y N

Delivery Method: FedEx UPS Greyhound ALS Client Other

Date/Time of Unpacking: 3.21.25 13:00 Unpacked by: MM

Shipping container/cooler in good condition?	Yes	No	Not Present
Custody seals intact on shipping container/cooler?	Yes	No	Not Present
Custody seals intact on sample bottles?	Yes	No	Not Present
Chain of Custody present?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of Custody - Sampler's name present?	Yes	No	
Chain of Custody agrees with sample labels?	Yes	No	
Samples in proper container/bottle?	Yes	No	
VOA/TX1005/1006 Solids in hermetically Sealed Vials:	Yes	No	No VOA/TX1005/1006 Solid
Sample containers intact?	Yes	No	
Sufficient sample volume for indicated test?	Yes	No	
All samples received within holding time?	Yes	No	
Container/Temp Blank temperature in compliance?	Yes	No	
Water - VOA vials have zero headspace?	Yes	No	N/A No VOA submitted
Non-VOA waters preserved with HCl, H2SO4, HNO3 are pH <2?			Yes No N/A
Waters preserved with NaOH/Ascorbic acid are pH>12?	Yes	No	N/A
pH adjusted?	Yes*	No	N/A *See Preservation Logbook

pH adjusted by: _____ **pH Paper Lot:** _____

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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 454459 **Prep WorkFlow:** OrgExtAq(365) **Status:** Prepped
Team: Semivoa GCMS/MDESAI **Prep Method:** Method Sep Funnel/Jar **Prep Date/Time:** 3/26/25 13:00

#	Lab Code	Client ID	B#	Method /Test	pH	CI	Matrix	Amt. Ext.	Sample Description
1	E2500209-001	BP-2410 STYROLUTION CS	.01	1613B/Dioxins Furans	5	x	Wastewater	1037mL	light green
2	E2500209-002	BP-2420 STYROLUTION CS	.01	1613B/Dioxins Furans	5	x	Wastewater	1045mL	tint green
3	E2500209-003	BP-2425 STYROLUTION BS	.01	1613B/Dioxins Furans	5	x	Wastewater	839mL	yellow occur
4	E2500209-004	BP-2430 CARPENTER BS	.01	1613B/Dioxins Furans	11/7	x	Wastewater	1054mL	cloudy
5	E2500209-005	BP-2435 KURARAY/SEPCA BS	.01	1613B/Dioxins Furans	5	x	Wastewater	1024mL	clear
6	E2500230-001	BP-2470 10201 BAY AREA BS	.01	1613B/Dioxins Furans	7	x	Wastewater	1014mL	carbon
7	E2500230-002	BP-2480 DIXIE BS 2	.01	1613B/Dioxins Furans	8	x	Wastewater	993mL	very light green
8	E2500230-003	BP-2485 NCTI BS	.01	1613B/Dioxins Furans	7	x	Wastewater	1043mL	very light green
9	E2500230-004	BP-2510 HALDOR BS	.01	1613B/Dioxins Furans	7	x	Wastewater	1040mL	cloudy
10	E2500231-001	2391321	.01	1613B/Dioxins Furans	6	x	Water	960mL	clear
11	E2500232-001	2392060	.01	1613B/Dioxins Furans	6	x	Water	990mL	light green
12	EQ2500125-01	MB		1613B/Dioxins Furans	5	x	Liquid	1000mL	
13	EQ2500125-02	LCS		1613B/Dioxins Furans	5	x	Liquid	1000mL	
14	EQ2500125-03	DLCS		1613B/Dioxins Furans	5	x	Liquid	1000mL	

Spiking Solutions

Name: 1613B Matrix Working Standard Inventory ID 240452 Logbook Ref: OO 3/5/25@MWS@4-20ng/ml Expires On: 07/10/2025

EQ2500125-02	100.00µL	EQ2500125-03	100.00µL

Name: 1613B Labeled Working Standard Inventory ID 240693 Logbook Ref: 1613BLWS 03/20/25 MD Expires On: 05/16/2025

E2500209-001	1,000.00µL	E2500209-002	1,000.00µL	E2500209-003	1,000.00µL	E2500209-004	1,000.00µL	E2500209-005	1,000.00µL	E2500230-001	1,000.00µL
E2500230-002	1,000.00µL	E2500230-003	1,000.00µL	E2500230-004	1,000.00µL	E2500231-001	1,000.00µL	E2500232-001	1,000.00µL	EQ2500125-01	1,000.00µL
EQ2500125-02	1,000.00µL	EQ2500125-03	1,000.00µL								

Name: 8290/1613B Cleanup Working Standard Inventory ID 240729 Logbook Ref: OO 3/24/25 CWS@8ng/ml Expires On: 06/13/2025

E2500209-001	100.00µL	E2500209-002	100.00µL	E2500209-003	100.00µL	E2500209-004	100.00µL	E2500209-005	100.00µL	E2500230-001	100.00µL
E2500230-002	100.00µL	E2500230-003	100.00µL	E2500230-004	100.00µL	E2500231-001	100.00µL	E2500232-001	100.00µL	EQ2500125-01	100.00µL
EQ2500125-02	100.00µL	EQ2500125-03	100.00µL								

Preparation Information Benchsheet

Prep Run#: 454459 **Prep WorkFlow:** OrgExtAq(365) **Status:** Prepped
Team: Semivoa GCMS/MDESAI **Prep Method:** Method Sep Funnel/Jar **Prep Date/Time:** 3/26/25 13:00

Preparation Materials

Aquachek Chlorine Strips	MD FREE CHLORINE STR (235876)	Ethyl Acetate 99.9% Minimum EtOAc	OO 4/24/23 C4H8O4 (228820)	Glass Wool	cw 1/15/25 (239605)
Hexanes 95%	HEXANE 95% 02/20/25 MD (240233)	Dichloromethane (Methylene Chloride) 99.9% MeCl2	DICHLORO MRTHANE MD 01/28/2025 (239815)	Sodium Sulfate Anhydrous Reagent Grade Na2SO4	DD062124 (235888)
Tridecane (n-Tridecane)	CW 1/15/25 (239604)	pH Paper 0-14	02/12/2025 MDPH STRIPS 0-14 (240082)	Silica Gel	DD081924 (236863)
Toluene 99.9% Minimum	MD 04/01/25 TOLUENE99.5% (240895)				

Preparation Steps

Step:	Extraction	Step:	Acid Clean	Step:	Silica Gel Clean	Step:	Final Volume
Started:	3/26/25 13:00	Started:	3/31/25 10:00	Started:	3/31/25 12:00	Started:	4/1/25 09:00
Finished:	3/31/25 12:00	Finished:	3/31/25 11:00	Finished:	3/31/25 16:40	Finished:	4/1/25 14:30
By:	MDESAI	By:	MDESAI	By:	MDESAI	By:	MDESAI
Comments		Comments		Comments		Comments	

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	03/21/25 09:25
Sample Matrix:	Water	**Date Received:**	03/21/25 18:41
Sample Name:	2392060	**Units:**	pg/L
Lab Code:	E2500232-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/02/25 08:52
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	990mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552097	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552085

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	4.55	5.05			1
1,2,3,7,8-PeCDD	ND	U	2.01	25.3			1
1,2,3,4,7,8-HxCDD	1.73**BJK**		0.512	25.3	0.79	1.000	1
1,2,3,6,7,8-HxCDD	0.672**BJK**		0.448	25.3	0.73	1.000	1
1,2,3,7,8,9-HxCDD	ND	U	0.465	25.3			1
1,2,3,4,6,7,8-HpCDD	3.78**BJ**		0.485	25.3	0.96	1.000	1
OCDD	12.1**BJK**		1.87	50.5	1.11	1.000	1
2,3,7,8-TCDF	ND	U	4.23	5.05			1
1,2,3,7,8-PeCDF	ND	U	2.01	25.3			1
2,3,4,7,8-PeCDF	ND	U	1.79	25.3			1
1,2,3,4,7,8-HxCDF	1.32**BJK**		0.605	25.3	0.96	1.000	1
1,2,3,6,7,8-HxCDF	1.13**BJK**		0.597	25.3	1.49	1.001	1
1,2,3,7,8,9-HxCDF	1.45**BJK**		0.819	25.3	1.03	1.001	1
2,3,4,6,7,8-HxCDF	ND	U	0.738	25.3			1
1,2,3,4,6,7,8-HpCDF	1.61**BJK**		0.471	25.3	0.80	1.000	1
1,2,3,4,7,8,9-HpCDF	ND	U	0.541	25.3			1
OCDF	5.14**BJK**		2.00	50.5	1.11	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	03/21/25 09:25
Sample Matrix:	Water	**Date Received:**	03/21/25 18:41
Sample Name:	2392060	**Units:**	pg/L
Lab Code:	E2500232-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/02/25 08:52
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	990mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552097	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552085

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	4.55	5.05			1
Total Penta-Dioxins	ND	U	2.01	25.3			1
Total Hexa-Dioxins	ND	U	0.473	25.3			1
Total Hepta-Dioxins	4.47**J**		0.485	25.3	0.96		1
Total Tetra-Furans	ND	U	4.23	5.05			1
Total Penta-Furans	ND	U	1.90	25.3			1
Total Hexa-Furans	ND	U	0.678	25.3			1
Total Hepta-Furans	0.831**J**		0.504	25.3	1.14		1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	03/21/25 09:25
Sample Matrix:	Water	**Date Received:**	03/21/25 18:41
Sample Name:	2392060	**Units:**	Percent
Lab Code:	E2500232-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/02/25 08:52
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	990mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552097	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552085

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	724.191	36		25-164	0.78	1.024
13C-1,2,3,7,8-PeCDD	2000	911.413	46		25-181	1.57	1.210
13C-1,2,3,4,7,8-HxCDD	2000	831.461	42		32-141	1.30	0.991
13C-1,2,3,6,7,8-HxCDD	2000	863.557	43		28-130	1.27	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	905.468	45		23-140	1.05	1.068
13C-OCDD	4000	1841.735	46		17-157	0.89	1.138
13C-2,3,7,8-TCDF	2000	551.997	28		24-169	0.80	0.991
13C-1,2,3,7,8-PeCDF	2000	749.649	37		24-185	1.60	1.163
13C-2,3,4,7,8-PeCDF	2000	800.169	40		21-178	1.59	1.199
13C-1,2,3,4,7,8-HxCDF	2000	774.203	39		26-152	0.50	0.970
13C-1,2,3,6,7,8-HxCDF	2000	719.887	36		26-123	0.51	0.973
13C-1,2,3,7,8,9-HxCDF	2000	682.370	34		29-147	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	639.443	32		28-136	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	712.721	36		28-143	0.44	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	783.028	39		26-138	0.43	1.080
37Cl-2,3,7,8-TCDD	800	1174.540	147		35-197	NA	1.025

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	03/21/25 09:25
Sample Matrix:	Water	**Date Received:**	03/21/25 18:41
Sample Name:	2392060	**Units:**	pg/L
Lab Code:	E2500232-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	4.55	5.05	1	1	
1,2,3,7,8-PeCDD	ND	2.01	25.3	1	1	
1,2,3,4,7,8-HxCDD	**1.73**	0.512	25.3	1	0.1	0.173
1,2,3,6,7,8-HxCDD	**0.672**	0.448	25.3	1	0.1	0.0672
1,2,3,7,8,9-HxCDD	ND	0.465	25.3	1	0.1	
1,2,3,4,6,7,8-HpCDD	**3.78**	0.485	25.3	1	0.01	0.0378
OCDD	**12.1**	1.87	50.5	1	0.0003	0.00363
2,3,7,8-TCDF	ND	4.23	5.05	1	0.1	
1,2,3,7,8-PeCDF	ND	2.01	25.3	1	0.03	
2,3,4,7,8-PeCDF	ND	1.79	25.3	1	0.3	
1,2,3,4,7,8-HxCDF	**1.32**	0.605	25.3	1	0.1	0.132
1,2,3,6,7,8-HxCDF	**1.13**	0.597	25.3	1	0.1	0.113
1,2,3,7,8,9-HxCDF	**1.45**	0.819	25.3	1	0.1	0.145
2,3,4,6,7,8-HxCDF	ND	0.738	25.3	1	0.1	
1,2,3,4,6,7,8-HpCDF	**1.61**	0.471	25.3	1	0.01	0.0161
1,2,3,4,7,8,9-HpCDF	ND	0.541	25.3	1	0.01	
OCDF	**5.14**	2.00	50.5	1	0.0003	0.00154
		Total TEQ				0.689

2005 WHO TEFs, ND = 0

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg/L
Lab Code:	EQ2500125-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/01/25 13:34
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552074	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552072

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.699	5.00			1
1,2,3,7,8-PeCDD	0.649**JK**		0.429	25.0	1.11	1.001	1
1,2,3,4,7,8-HxCDD	1.92**JK**		0.254	25.0	1.44	1.000	1
1,2,3,6,7,8-HxCDD	0.492**J**		0.228	25.0	1.18	1.000	1
1,2,3,7,8,9-HxCDD	0.447**JK**		0.235	25.0	1.83	1.007	1
1,2,3,4,6,7,8-HpCDD	2.00**JK**		0.270	25.0	0.79	1.001	1
OCDD	11.1**JK**		0.581	50.0	0.72	1.000	1
2,3,7,8-TCDF	ND	U	0.769	5.00			1
1,2,3,7,8-PeCDF	ND	U	0.432	25.0			1
2,3,4,7,8-PeCDF	0.531**JK**		0.393	25.0	1.03	1.001	1
1,2,3,4,7,8-HxCDF	0.608**J**		0.237	25.0	1.22	1.000	1
1,2,3,6,7,8-HxCDF	0.478**JK**		0.231	25.0	1.61	1.000	1
1,2,3,7,8,9-HxCDF	1.23**JK**		0.331	25.0	0.81	1.001	1
2,3,4,6,7,8-HxCDF	0.477**JK**		0.280	25.0	1.72	1.000	1
1,2,3,4,6,7,8-HpCDF	0.953**JK**		0.0980	25.0	1.71	1.000	1
1,2,3,4,7,8,9-HpCDF	0.722**JK**		0.113	25.0	1.38	1.000	1
OCDF	8.74**J**		0.732	50.0	0.79	1.004	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg/L
Lab Code:	EQ2500125-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/01/25 13:34
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552074	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552072

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	0.699	5.00			1
Total Penta-Dioxins	ND	U	0.429	25.0			1
Total Hexa-Dioxins	0.492**J**		0.238	25.0	1.18		1
Total Hepta-Dioxins	2.11**J**		0.270	25.0	1.04		1
Total Tetra-Furans	ND	U	0.769	5.00			1
Total Penta-Furans	ND	U	0.412	25.0			1
Total Hexa-Furans	0.608**J**		0.265	25.0	1.22		1
Total Hepta-Furans	ND	U	0.105	25.0			1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	EQ2500125-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/01/25 13:34
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552074	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552072

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1337.757	67		25-164	0.78	1.025
13C-1,2,3,7,8-PeCDD	2000	1340.645	67		25-181	1.57	1.211
13C-1,2,3,4,7,8-HxCDD	2000	1292.206	65		32-141	1.27	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1323.244	66		28-130	1.28	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1180.944	59		23-140	1.07	1.068
13C-OCDD	4000	1808.944	45		17-157	0.98	1.139
13C-2,3,7,8-TCDF	2000	1023.392	51		24-169	0.78	0.991
13C-1,2,3,7,8-PeCDF	2000	1126.804	56		24-185	1.59	1.164
13C-2,3,4,7,8-PeCDF	2000	1162.831	58		21-178	1.59	1.200
13C-1,2,3,4,7,8-HxCDF	2000	1213.742	61		26-152	0.51	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1140.892	57		26-123	0.52	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1035.270	52		29-147	0.52	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1020.488	51		28-136	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	975.270	49		28-143	0.44	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1037.408	52		26-138	0.43	1.080
37Cl-2,3,7,8-TCDD	800	1413.649	177		35-197	NA	1.025

Accuracy & Precision

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10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Analyzed:**	04/01/25
Sample Matrix:	Water	**Date Extracted:**	03/26/25

Duplicate Lab Control Sample Summary
Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Units:**	pg/L
Prep Method:	Method Sep Funnel/Jar	**Basis:**	NA
		Analysis Lot:	874719

	Lab Control Sample EQ2500125-02			Duplicate Lab Control Sample EQ2500125-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,3,4,6,7,8-HpCDD	885	1000	89	880	1000	88	70-140	<1	50
1,2,3,4,7,8-HxCDD	883	1000	88	914	1000	91	70-164	4	50
1,2,3,6,7,8-HxCDD	776	1000	78	762	1000	76	76-134	2	50
1,2,3,7,8,9-HxCDD	850	1000	85	851	1000	85	64-162	<1	50
1,2,3,7,8-PeCDD	845	1000	84	847	1000	85	70-142	<1	50
2,3,7,8-TCDD	167	200	83	168	200	84	67-158	<1	50
OCDD	1760	2000	88	1760	2000	88	78-144	<1	50
1,2,3,4,6,7,8-HpCDF	895	1000	90	894	1000	89	82-122	<1	50
1,2,3,4,7,8,9-HpCDF	876	1000	88	795	1000	80	78-138	10	50
1,2,3,4,7,8-HxCDF	775	1000	78	782	1000	78	72-134	<1	50
1,2,3,6,7,8-HxCDF	849	1000	85	841	1000	84	84-130	<1	50
1,2,3,7,8,9-HxCDF	910	1000	91	927	1000	93	78-130	2	50
1,2,3,7,8-PeCDF	865	1000	86	862	1000	86	80-134	<1	50
2,3,4,6,7,8-HxCDF	905	1000	90	913	1000	91	70-156	<1	50
2,3,4,7,8-PeCDF	800	1000	80	799	1000	80	68-160	<1	50
2,3,7,8-TCDF	159	200	80	160	200	80	75-158	<1	50
OCDF	1650	2000	83	1670	2000	83	63-170	1	50

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500125-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/01/25 20:11
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552082	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552072

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	167		1.15	5.00	0.75	1.001	1
1,2,3,7,8-PeCDD	845		0.649	25.0	1.58	1.000	1
1,2,3,4,7,8-HxCDD	883		0.282	25.0	1.27	1.000	1
1,2,3,6,7,8-HxCDD	776		0.253	25.0	1.28	1.000	1
1,2,3,7,8,9-HxCDD	850		0.260	25.0	1.22	1.007	1
1,2,3,4,6,7,8-HpCDD	885		0.397	25.0	1.04	1.000	1
OCDD	1760		0.781	50.0	0.88	1.000	1
2,3,7,8-TCDF	159		0.834	5.00	0.69	1.001	1
1,2,3,7,8-PeCDF	865		0.496	25.0	1.46	1.000	1
2,3,4,7,8-PeCDF	800		0.453	25.0	1.48	1.000	1
1,2,3,4,7,8-HxCDF	775		0.187	25.0	1.14	1.000	1
1,2,3,6,7,8-HxCDF	849		0.184	25.0	1.15	1.000	1
1,2,3,7,8,9-HxCDF	910		0.250	25.0	1.13	1.000	1
2,3,4,6,7,8-HxCDF	905		0.221	25.0	1.15	1.000	1
1,2,3,4,6,7,8-HpCDF	895		0.980	25.0	0.99	1.000	1
1,2,3,4,7,8,9-HpCDF	876		1.09	25.0	1.01	1.000	1
OCDF	1650		0.859	50.0	0.85	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500125-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/01/25 20:11
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552082	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552072

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	168		1.15	5.00	0.75		1
Total Penta-Dioxins	845		0.649	25.0	1.58		1
Total Hexa-Dioxins	2510		0.265	25.0	1.27		1
Total Hepta-Dioxins	885		0.397	25.0	1.04		1
Total Tetra-Furans	159		0.834	5.00	0.69		1
Total Penta-Furans	1670		0.474	25.0	1.60		1
Total Hexa-Furans	3370		0.207	25.0	1.14		1
Total Hepta-Furans	1770		1.03	25.0	0.99		1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	Percent
Lab Code:	EQ2500125-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/01/25 20:11
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552082	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552072

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1698.611	85		25-164	0.78	1.025
13C-1,2,3,7,8-PeCDD	2000	1834.791	92		25-181	1.57	1.211
13C-1,2,3,4,7,8-HxCDD	2000	1739.105	87		32-141	1.28	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1765.196	88		28-130	1.27	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1620.373	81		23-140	1.08	1.068
13C-OCDD	4000	2873.832	72		17-157	0.91	1.138
13C-2,3,7,8-TCDF	2000	1302.081	65		24-169	0.79	0.991
13C-1,2,3,7,8-PeCDF	2000	1510.423	76		24-185	1.60	1.164
13C-2,3,4,7,8-PeCDF	2000	1591.868	80		21-178	1.59	1.200
13C-1,2,3,4,7,8-HxCDF	2000	1597.548	80		26-152	0.51	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1468.807	73		26-123	0.51	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1446.520	72		29-147	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1369.222	68		28-136	0.52	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1291.530	65		28-143	0.44	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1402.745	70		26-138	0.43	1.080
37Cl-2,3,7,8-TCDD	800	2034.430	254	**Y**	35-197	NA	1.025

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500125-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/01/25 21:00
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552083	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552072

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	168		1.82	5.00	0.73	1.001	1
1,2,3,7,8-PeCDD	847		0.823	25.0	1.62	1.001	1
1,2,3,4,7,8-HxCDD	914		0.657	25.0	1.31	1.000	1
1,2,3,6,7,8-HxCDD	762		0.591	25.0	1.19	1.000	1
1,2,3,7,8,9-HxCDD	851		0.607	25.0	1.26	1.007	1
1,2,3,4,6,7,8-HpCDD	880		0.584	25.0	1.04	1.000	1
OCDD	1760		3.15	50.0	0.90	1.000	1
2,3,7,8-TCDF	160		1.55	5.00	0.72	1.001	1
1,2,3,7,8-PeCDF	862		0.763	25.0	1.44	1.001	1
2,3,4,7,8-PeCDF	799		0.687	25.0	1.48	1.001	1
1,2,3,4,7,8-HxCDF	782		0.271	25.0	1.15	1.000	1
1,2,3,6,7,8-HxCDF	841		0.271	25.0	1.16	1.000	1
1,2,3,7,8,9-HxCDF	927		0.383	25.0	1.16	1.000	1
2,3,4,6,7,8-HxCDF	913		0.327	25.0	1.14	1.000	1
1,2,3,4,6,7,8-HpCDF	894		0.706	25.0	0.97	1.000	1
1,2,3,4,7,8,9-HpCDF	795		0.838	25.0	0.99	1.000	1
OCDF	1670		1.27	50.0	0.87	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500125-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/01/25 21:00
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552083	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552072

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	168		1.82	5.00	0.73		1
Total Penta-Dioxins	847		0.823	25.0	1.62		1
Total Hexa-Dioxins	2530		0.617	25.0	1.31		1
Total Hepta-Dioxins	880		0.584	25.0	1.04		1
Total Tetra-Furans	160		1.55	5.00	0.72		1
Total Penta-Furans	1660		0.724	25.0	1.71		1
Total Hexa-Furans	3400		0.307	25.0	1.15		1
Total Hepta-Furans	1690		0.767	25.0	0.97		1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500232
Project:	BT TPDES Permit Comp/2392060	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	Percent
Lab Code:	EQ2500125-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	04/01/25 21:00
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	3/26/25
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P552083	**Blank File Name:**	P552074
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P552072

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1086.808	54		25-164	0.79	1.024
13C-1,2,3,7,8-PeCDD	2000	1137.046	57		25-181	1.57	1.210
13C-1,2,3,4,7,8-HxCDD	2000	1151.431	58		32-141	1.28	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1205.852	60		28-130	1.30	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1097.361	55		23-140	1.08	1.068
13C-OCDD	4000	1963.863	49		17-157	0.91	1.138
13C-2,3,7,8-TCDF	2000	838.402	42		24-169	0.79	0.991
13C-1,2,3,7,8-PeCDF	2000	939.277	47		24-185	1.59	1.163
13C-2,3,4,7,8-PeCDF	2000	998.006	50		21-178	1.62	1.199
13C-1,2,3,4,7,8-HxCDF	2000	1086.205	54		26-152	0.51	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1009.939	50		26-123	0.50	0.973
13C-1,2,3,7,8,9-HxCDF	2000	933.575	47		29-147	0.53	1.008
13C-2,3,4,6,7,8-HxCDF	2000	914.751	46		28-136	0.52	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	888.962	44		28-143	0.43	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	916.110	46		26-138	0.42	1.080
37Cl-2,3,7,8-TCDD	800	1320.128	165		35-197	NA	1.025

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

Project
1141300

APEA-A

Apex Companies Austin
Margeret Schell
12501 Hymeadow Drive
Suite 1 G
Austin, TX 78750

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2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

SAMPLE CROSS REFERENCE

Project
1141300

Apex Companies Austin
Margeret Schell
12501 Hymeadow Drive
Suite 1 G
Austin, TX 78750

Sample	Sample ID	Taken	Time	Received
2393856	*BT TPDES Permit Comp*	03/27/2025	07:00:00	03/27/2025

Bottle 01 Polyethylene 1/2 gal (White)
Bottle 02 Polyethylene 1/2 gal (White)
Bottle 03 Polyethylene Quart
Bottle 04 16 oz HNO3 Metals Plastic
Bottle 05 NaOH to pH >9 and Zinc Acetate Polyethylene 250 mL
Bottle 06 8 oz Plastic H2SO4 pH < 2
Bottle 07 EDTA Preserved 250 ml Polyethylene
Bottle 08 8 oz Plastic H2SO4 pH < 2
Bottle 09 8 oz Plastic H2SO4 pH < 2
Bottle 10 Cr+6 Preserved 250 Polyethylene
Bottle 11 H2SO4 to pH <2 Amber Glass 250 mL w/Teflon lined lid(4)
Bottle 12 Amber 32 Oz
Bottle 13 Amber 32 Oz
Bottle 14 Amber 32 Oz
Bottle 15 Amber 32 Oz
Bottle 16 Amber 32 Oz
Bottle 17 Amber 32 Oz
Bottle 18 Amber 32 Oz
Bottle 19 Amber 32 Oz
Bottle 20 Amber 32 Oz
Bottle 21 Amber 32 Oz
Bottle 22 Amber 32 Oz
Bottle 23 Amber 32 Oz
Bottle 24 Amber 32 Oz
Bottle 25 Prepared Bottle: 2 mL Autosampler Vial (Batch 1167572) Volume: 1.00000 mL <== Derived from 12 (977 ml)
Bottle 26 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1167613) Volume: 6.00000 mL <== Derived from 08 (6 ml)
Bottle 27 BOD Titration Beaker A (Batch 1167635) Volume: 100.00000 mL <== Derived from 03 (100 ml)
Bottle 28 BOD Analytical Beaker B (Batch 1167635) Volume: 100.00000 mL <== Derived from 03 (100 ml)
Bottle 29 BOD Titration Beaker A (Batch 1167634) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 30 BOD Analytical Beaker B (Batch 1167634) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 31 Prepared Bottle: ICP Preparation for Metals (Batch 1167652) Volume: 50.00000 mL <== Derived from 04 (50 ml)
Bottle 32 Prepared Bottle: ICP Preparation for Metals (Batch 1167652) Volume: 50.00000 mL <== Derived from 04 (50 ml)
Bottle 33 Prepared Bottle: ICP Preparation for Metals (Batch 1167652) Volume: 50.00000 mL <== Derived from 04 (50 ml)
Bottle 34 Prepared Bottle: 2 mL Autosampler Vial (Batch 1167676) Volume: 5.00000 mL <== Derived from 16 (957 ml)
Bottle 35 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1167687) Volume: 20.00000 mL <== Derived from 06 (20 ml)
Bottle 36 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1167895) Volume: 1.00000 mL <== Derived from 14 (1000 ml)
Bottle 37 Prepared Bottle: GCXL\GCXS 2 mL Autosampler Vial (Batch 1167899) Volume: 1.00000 mL <== Derived from 14 (1000 ml)
Bottle 38 Prepared Bottle: OPXL/OPXS 2 mL Autosampler Vial (Batch 1167905) Volume: 1.00000 mL <== Derived from 14 (1000 ml)
Bottle 39 Prepared Bottle:PCBL 2 mL Autosampler Vial (Batch 1167907) Volume: 1.00000 mL <== Derived from 14 (1000 ml)
Bottle 40 Prepared Bottle: 2 mL Autosampler Vial (Batch 1168083) Volume: 10.00000 mL <== Derived from 17 (999 ml)

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SAMPLE CROSS REFERENCE

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Bottle 41 Prepared Bottle: 2 mL Autosampler Vial (Batch 1168553) Volume: 1.00000 mL <== Derived from 18 (1009 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 608.3	37	1167899	03/31/2025	1168867	04/02/2025
EPA 608.3	37	1167899	03/31/2025	1169467	04/02/2025
EPA 615	40	1168083	04/01/2025	1168894	04/04/2025
EPA 300.0 2.1	01	1167786	03/27/2025	1167786	03/27/2025
EPA 632	36	1167895	03/31/2025	1168631	04/02/2025
EPA 604.1	34	1167676	03/28/2025	1167960	03/31/2025
EPA 1657	38	1167905	03/31/2025	1168306	04/01/2025
EPA 617	37	1167899	03/31/2025	1168859	04/02/2025
EPA 625.1	25	1167572	03/27/2025	1169408	04/07/2025
TX 1001	41	1168553	04/03/2025	1169722	04/09/2025
EPA 200.8 5.4	31	1167652	03/28/2025	1168097	04/01/2025
EPA 200.8 5.4	31	1167652	03/28/2025	1167869	03/28/2025
EPA 200.7 4.4	31	1167652	03/28/2025	1167701	03/28/2025
EPA 200.8 5.4	31	1167652	03/28/2025	1168008	04/01/2025
EPA 200.7 4.4	31	1167652	03/28/2025	1167705	03/28/2025
EPA 200.7, Rev. 4.4	31	1167652	03/28/2025	1167701	03/28/2025
SM 2320 B-2011	02	1168742	04/04/2025	1168742	04/04/2025
SM 5210 B-2016	01	1167634	04/02/2025	1167634	04/02/2025
SM 5210 B-2016 (TCMP Inhibitor)	03	1167635	04/02/2025	1167635	04/02/2025
SM 5220 D-2011	08	1168204	04/01/2025	1168204	04/01/2025
SM 2120 B-2011	13	1167646	03/28/2025	1167646	03/28/2025
Calculation			03/31/2025		03/31/2025
SM 3500-Cr B-2011	10	1167740	03/27/2025	1167740	03/27/2025
SM 3500-Cr B-2011		1167536	03/27/2025	1167536	03/27/2025
SM 5540 C-2011	01	1167888	03/28/2025	1167888	03/28/2025
EPA 350.1 2	26	1167613	03/27/2025	1168121	04/01/2025
EPA 351.2 minus EPA 350.1			04/02/2025		04/02/2025
SM 4500-$S2^{-}$ D-2011	05	1167729	03/28/2025	1167729	03/28/2025
SM 4500-$SO3^{-}$ B-2011/EPA 377.1	07	1167651	03/27/2025	1167651	03/27/2025
SM 2540 C-2020	03	1168442	04/01/2025	1168442	04/01/2025
EPA 351.2 2	35	1167687	03/28/2025	1168178	04/01/2025
Calculation	35	1167687	03/28/2025	1168178	04/02/2025
SM 5310 C-2014	11	1167670	03/28/2025	1167670	03/28/2025
SM 2540 D-2020	01	1168499	04/02/2025	1168499	04/02/2025

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Printed: 05/16/2025

RESULTS

Sample Results

2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 07:00 3/27/25 *Taken:* 03/27/2025 07:00:00
#1 Autosampler #7241 Bottle #001501

Sample poured Date:3/27/25 Time:0910

#2 Autosampler #6358 Bottle #001726

Sample poured Date:3/27/25 Time:0920

Prepared: 03/27/2025 14:30:32 *Calculated* 03/27/2025 14:30:32 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**2 Composite Sampler Rentals**	**Verified**					

Calculation *Prepared:* 03/31/2025 17:20:55 *Calculated* 03/31/2025 17:20:55 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Trivalent Chromium**	**<0.003**	**mg/L**	0.003		**16065-83-1**	

Calculation *Prepared:* 1167687 03/28/2025 10:38:33 *Calculated* 1168178 04/02/2025 07:35:17 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Nitrogen (as N)**	**1.474**	**mg/L**	0.050			35

EPA 1657 *Prepared:* 1167905 03/31/2025 12:50:00 *Analyzed* 1168306 04/01/2025 20:12:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Azinphos-methyl (Guthion)**	**<0.050**	**ug/L**	0.050		**86-50-0**	38
z	**Chlorpyrifos**	**<0.050**	**ug/L**	0.050		**2921-88-2**	38
z	**Demeton**	**<0.050**	**ug/L**	0.050		**8065-48-3**	38
z	**Diazinon**	**<0.050**	**ug/L**	0.050		**333-41-5**	38
z	**Malathion**	**<0.050**	**ug/L**	0.050		**121-75-5**	38
z	**Parathion, ethyl**	**<0.050**	**ug/L**	0.050		**56-38-2**	38
z	**Parathion, methyl**	**<0.050**	**ug/L**	0.050		**298-00-0**	38

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2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 07:00 3/27/25 *Taken:* 03/27/2025 07:00:00

#1 Autosampler #7241 Bottle #001501

Sample poured Date:3/27/25 Time:0910

#2 Autosampler #6358 Bottle #001726

Sample poured Date:3/27/25 Time:0920

EPA 200.7 4.4 *Prepared:* 1167652 03/28/2025 06:00:00 *Analyzed* 1167701 03/28/2025 10:35:00 *CAS*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Boron	0.0183	mg/L	0.008		7440-42-8	31
NELAC	Phosphorus	0.217	mg/L	0.040		7723-14-0	31
NELAC	Tin, Total	<0.010	mg/L	0.010		7440-31-5	31

EPA 200.7 4.4 *Prepared:* 1167652 03/28/2025 06:00:00 *Analyzed* 1167705 03/28/2025 10:40:00 *CAS*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Iron, Total	0.104	mg/L	0.025		7439-89-6	31
NELAC	Magnesium, Total	2.11	mg/L	0.500		7439-95-4	31

EPA 200.7, Rev. 4.4 *Prepared:* 1167652 03/28/2025 06:00:00 *Analyzed* 1167701 03/28/2025 10:35:00 *CAS*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Titanium	<0.040	mg/L	0.040		7440-32-6	31

EPA 200.8 5.4 *Prepared:* 1167652 03/28/2025 06:00:00 *Analyzed* 1167869 03/28/2025 18:54:00 *ESG*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Aluminum, Total	0.0118	mg/L	0.005		7429-90-5	31
NELAC	Antimony, Total	<0.003	mg/L	0.003		7440-36-0	31
NELAC	Arsenic, Total	<0.001	mg/L	0.001		7440-38-2	31
NELAC	Beryllium, Total	<0.000162	mg/L	0.000162		7440-41-7	31
NELAC	Cadmium, Total	<0.001	mg/L	0.001		7440-43-9	31
NELAC	Chromium, Total	<0.001	mg/L	0.001		7440-47-3	31
NELAC	Cobalt, Total	0.00172	mg/L	0.001		7440-48-4	31
NELAC	Copper, Total	0.00452	mg/L	0.001		7440-50-8	31
NELAC	Manganese, Total	0.0239	mg/L	0.001		7439-96-5	31
NELAC	Molybdenum, Total	0.00152	mg/L	0.001		7439-98-7	31
NELAC	Nickel, Total	0.00221	mg/L	0.001		7440-02-0	31
NELAC	Zinc, Total	0.0184	mg/L	0.001		7440-66-6	31

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2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 07:00 3/27/25 *Taken:* 03/27/2025 07:00:00

#1 Autosampler #7241 Bottle #001501

Sample poured Date:3/27/25 Time:0910

#2 Autosampler #6358 Bottle #001726

Sample poured Date:3/27/25 Time:0920

EPA 200.8 5.4 *Prepared:* 1167652 03/28/2025 06:00:00 *Analyzed* 1168008 04/01/2025 02:25:00 HLT

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Barium, Total**	**0.102**	**mg/L**	0.005		**7440-39-3**	31
NELAC	**Lead, Total**	**<0.0005**	**mg/L**	0.0005		**7439-92-1**	31
NELAC	**Selenium, Total**	**<0.005**	**mg/L**	0.005		**7782-49-2**	31
NELAC	**Thallium, Total**	**<0.000966**	**mg/L**	0.000966		**7440-28-0**	31

EPA 200.8 5.4 *Prepared:* 1167652 03/28/2025 06:00:00 *Analyzed* 1168097 04/01/2025 13:11:00 HLT

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Silver, Total**	**<0.001**	**mg/L**	0.001		**7440-22-4**	31

EPA 300.0 2.1 *Prepared:* 1167786 03/27/2025 16:45:00 *Analyzed* 1167786 03/27/2025 16:45:00 KRA

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Bromide**	**<0.4**	**mg/L**	0.4			01
NELAC	**Chloride**	**22.6**	**mg/L**	3.00			01
NELAC	**Fluoride**	**<0.5**	**mg/L**	0.5			01
NELAC	**Nitrate-Nitrite Nitrogen**	**1.05**	**mg/L**	0.530			01
NELAC	**Nitrate-Nitrogen Total**	**1.05**	**mg/L**	0.226		**14797-55-8**	01
NELAC	**Sulfate**	**14.1**	**mg/L**	3.00			01

EPA 350.1 2 *Prepared:* 1167613 03/27/2025 16:49:01 *Analyzed* 1168121 04/01/2025 06:34:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Ammonia Nitrogen**	**<0.020**	**mg/L**	0.020			26

EPA 351.2 2 *Prepared:* 1167687 03/28/2025 10:38:33 *Analyzed* 1168178 04/01/2025 09:48:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Kjeldahl Nitrogen**	**0.424**	**mg/L**	0.050		**7727-37-9**	35

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2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 07:00 3/27/25 *Taken:* 03/27/2025 07:00:00
#1 Autosampler #7241 Bottle #001501

Sample poured Date:3/27/25 Time:0910

#2 Autosampler #6358 Bottle #001726

Sample poured Date:3/27/25 Time:0920

EPA 351.2 minus EPA 350.1 *Prepared:* *04/02/2025 07:35:17* *Calculated* *04/02/2025 07:35:17* *CAL*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Nitrogen, Total Organic (as N)**	**0.404**	**mg/L**	0.050			

EPA 604.1 *Prepared:* *1167676 03/28/2025 09:35:00* *Analyzed* *1167960 03/31/2025 04:00:00* *BRU*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Hexachlorophene**	**<2.61**	**ug/L**	2.61		**70-30-4**	34

EPA 608.3 *Prepared:* *1167899 03/31/2025 13:03:29* *Analyzed* *1168867 04/02/2025 20:16:00* *KAP*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**4,4-DDD**	**<0.010**	**ug/L**	0.010		**72-54-8**	37
NELAC	**4,4-DDE**	**<0.010**	**ug/L**	0.010		**72-55-9**	37
NELAC	**4,4-DDT**	**<0.010**	**ug/L**	0.010	S	**50-29-3**	37
NELAC	**Aldrin**	**<0.010**	**ug/L**	0.010		**309-00-2**	37
NELAC	**Alpha-BHC(hexachlorocyclohexane)**	**0.0342**	**ug/L**	0.010		**319-84-6**	37
NELAC	**Beta-BHC(hexachlorocyclohexane)**	**<0.010**	**ug/L**	0.010		**319-85-7**	37
NELAC	**Chlordane**	**<0.200**	**ug/L**	0.200		**57-74-9**	37
NELAC	**Delta-BHC(hexachlorocyclohexane)**	**<0.010**	**ug/L**	0.010		**319-86-8**	37
NELAC	**Dieldrin**	**<0.010**	**ug/L**	0.010		**60-57-1**	37
NELAC	**Endosulfan I (alpha)**	**<0.010**	**ug/L**	0.010		**959-98-8**	37
NELAC	**Endosulfan II (beta)**	**<0.010**	**ug/L**	0.010		**33213-65-9**	37
NELAC	**Endosulfan sulfate**	**<0.010**	**ug/L**	0.010		**1031-07-8**	37
NELAC	**Endrin**	**<0.010**	**ug/L**	0.010		**72-20-8**	37
NELAC	**Endrin aldehyde**	**<0.010**	**ug/L**	0.010		**7421-93-4**	37
NELAC	**Gamma-BHC(Lindane)**	**<0.010**	**ug/L**	0.010		**58-89-9**	37
NELAC	**Heptachlor**	**<0.010**	**ug/L**	0.010		**76-44-8**	37
NELAC	**Heptachlor epoxide**	**<0.010**	**ug/L**	0.010		**1024-57-3**	37
NELAC	**PCB-1016**	**<0.202**	**ug/L**	0.202	X	**12674-11-2**	37
NELAC	**PCB-1221**	**<0.200**	**ug/L**	0.200		**11104-28-2**	37
NELAC	**PCB-1232**	**<0.200**	**ug/L**	0.200		**11141-16-5**	37

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2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 07:00 3/27/25 *Taken:* 03/27/2025 07:00:00
#1 Autosampler #7241 Bottle #001501

Sample poured Date:3/27/25 Time:0910

#2 Autosampler #6358 Bottle #001726

Sample poured Date:3/27/25 Time:0920

EPA 608.3 *Prepared:* 1167899 03/31/2025 13:03:29 *Analyzed* 1169467 04/02/2025 20:16:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1242	<0.200	ug/L	0.200		53469-21-9	37
NELAC	PCB-1248	<0.200	ug/L	0.200		12672-29-6	37
NELAC	PCB-1254	<0.200	ug/L	0.200		11097-69-1	37
NELAC	PCB-1260	<0.200	ug/L	0.200	X	11096-82-5	37
NELAC	PCB-1262	<0.200	ug/L	0.200		37324-23-5	37
NELAC	PCB-1268	<0.200	ug/L	0.200		11100-14-4	37
NELAC	Toxaphene	<0.200	ug/L	0.200		8001-35-2	37

EPA 615 *Prepared:* 1168083 04/01/2025 14:00:00 *Analyzed* 1168894 04/04/2025 14:37:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	2,4 Dichlorophenoxyacetic acid	<0.501	ug/L	0.501		94-75-7	40
NELAC	2,4,5-TP (Silvex)	<0.300	ug/L	0.300		93-72-1	40

EPA 617 *Prepared:* 1167899 03/31/2025 13:03:29 *Analyzed* 1168859 04/02/2025 20:16:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Kelthane (Dicofol)	<0.050	ug/L	0.050	XS	115-32-2	37
z	Methoxychlor	<0.010	ug/L	0.010	S	72-43-5	37
z	Mirex	<0.010	ug/L	0.010		2385-85-5	37

EPA 625.1 *Prepared:* 1167572 03/27/2025 14:30:00 *Analyzed* 1169408 04/07/2025 21:37:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	1,2,4,5-Tetrachlorobenzene	<1.05	ug/L	1.05		95-94-3	25
NELAC	1,2,4-Trichlorobenzene	<1.02	ug/L	1.02	S	120-82-1	25
NELAC	1,2-Dichlorobenzene	<5.12	ug/L	5.12		95-50-1	25
NELAC	1,2-DPH (as azobenzene)	<1.02	ug/L	1.02		122-66-7	25
NELAC	1,3-Dichlorobenzene	<5.12	ug/L	5.12		541-73-1	25
NELAC	1,4-Dichlorobenzene	<5.12	ug/L	5.12		106-46-7	25

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2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 07:00 3/27/25 *Taken:* 03/27/2025 07:00:00

#1 Autosampler #7241 Bottle #001501

Sample poured Date:3/27/25 Time:0910

#2 Autosampler #6358 Bottle #001726

Sample poured Date:3/27/25 Time:0920

EPA 625.1 *Prepared:* 1167572 03/27/2025 14:30:00 *Analyzed* 1169408 04/07/2025 21:37:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	2,4,5-Trichlorophenol	<5.12	ug/L	5.12		95-95-4	25
NELAC	2,4,6-Trichlorophenol	<2.05	ug/L	2.05		88-06-2	25
NELAC	2,4-Dichlorophenol	<1.02	ug/L	1.02		120-83-2	25
NELAC	2,4-Dimethylphenol	<1.02	ug/L	1.02		105-67-9	25
NELAC	2,4-Dinitrophenol	<2.05	ug/L	2.05		51-28-5	25
NELAC	2,4-Dinitrotoluene	<2.05	ug/L	2.05		121-14-2	25
NELAC	2,6-Dinitrotoluene	<2.05	ug/L	2.05		606-20-2	25
NELAC	2-Chloronaphthalene	<1.02	ug/L	1.02	S	91-58-7	25
NELAC	2-Chlorophenol	<1.02	ug/L	1.02		95-57-8	25
NELAC	2-Methylphenol (o-Cresol)	<10.0	ug/L	10.0		95-48-7	25
NELAC	2-Nitrophenol	<1.02	ug/L	1.02		88-75-5	25
NELAC	3&4-Methylphenol (m&p-Cresol)	<8.19	ug/L	8.19		MEPH34	25
NELAC	3,3'-Dichlorobenzidine	<2.05	ug/L	2.05		91-94-1	25
NELAC	4,6-Dinitro-2-methylphenol	<2.05	ug/L	2.05	X	534-52-1	25
NELAC	4-Bromophenyl phenyl ether	<1.02	ug/L	1.02		101-55-3	25
NELAC	4-Chlorophenyl phenyl ethe	<1.02	ug/L	1.02		7005-72-3	25
NELAC	4-Nitrophenol	<1.02	ug/L	1.02		100-02-7	25
NELAC	Acenaphthene	<1.02	ug/L	1.02		83-32-9	25
NELAC	Acenaphthylene	<1.02	ug/L	1.02		208-96-8	25
NELAC	Anthracene	<1.02	ug/L	1.02		120-12-7	25
NELAC	Benzidine	<1.54	ug/L	1.54		92-87-5	25
NELAC	Benzo(a)anthracene	<1.02	ug/L	1.02		56-55-3	25
NELAC	Benzo(a)pyrene	<1.02	ug/L	1.02		50-32-8	25
NELAC	Benzo(b)fluoranthene	<1.02	ug/L	1.02		205-99-2	25
NELAC	Benzo(ghi)perylene	<1.02	ug/L	1.02		191-24-2	25
NELAC	Benzo(k)fluoranthene	<1.02	ug/L	1.02		207-08-9	25
NELAC	Benzyl Butyl phthalate	<7.68	ug/L	7.68		85-68-7	25
NELAC	Bis(2-chloroethoxy)methane	<1.02	ug/L	1.02		111-91-1	25
NELAC	Bis(2-chloroethyl)ether	<1.02	ug/L	1.02		111-44-4	25
NELAC	Bis(2-chloroisopropyl)ether	<1.02	ug/L	1.02		108-60-1	25
NELAC	Bis(2-ethylhexyl)phthalate	<7.68	ug/L	7.68		117-81-7	25

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Printed: 05/16/2025

2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 07:00 3/27/25 *Taken:* 03/27/2025 07:00:00

#1 Autosampler #7241 Bottle #001501

Sample poured Date:3/27/25 Time:0910

#2 Autosampler #6358 Bottle #001726

Sample poured Date:3/27/25 Time:0920

EPA 625.1 *Prepared:* 1167572 03/27/2025 14:30:00 *Analyzed* 1169408 04/07/2025 21:37:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chrysene (Benzo(a)phenanthrene)	<1.02	ug/L	1.02		218-01-9	25
NELAC	Dibenz(a,h)anthracene	<1.02	ug/L	1.02		53-70-3	25
NELAC	Diethyl phthalate	<5.83	ug/L	5.83		84-66-2	25
NELAC	Dimethyl phthalate	<4.91	ug/L	4.91		131-11-3	25
NELAC	Di-n-butylphthalate	<7.68	ug/L	7.68		84-74-2	25
NELAC	Di-n-octylphthalate	<2.05	ug/L	2.05		117-84-0	25
NELAC	Fluoranthene(Benzo(j,k)fluorene)	<1.02	ug/L	1.02		206-44-0	25
NELAC	Fluorene	<1.02	ug/L	1.02		86-73-7	25
NELAC	Hexachlorobenzene	<1.02	ug/L	1.02		118-74-1	25
NELAC	Hexachlorobutadiene	<1.05	ug/L	1.05		87-68-3	25
NELAC	Hexachlorocyclopentadiene	<1.02	ug/L	1.02		77-47-4	25
NELAC	Hexachloroethane	<2.05	ug/L	2.05	S	67-72-1	25
NELAC	Indeno(1,2,3-cd)pyrene	<1.02	ug/L	1.02		193-39-5	25
NELAC	Isophorone	<1.02	ug/L	1.02		78-59-1	25
NELAC	Naphthalene	<1.02	ug/L	1.02		91-20-3	25
NELAC	Nitrobenzene	<1.02	ug/L	1.02		98-95-3	25
NELAC	n-Nitrosodiethylamine	<1.02	ug/L	1.02		55-18-5	25
NELAC	N-Nitrosodimethylamine	<1.02	ug/L	1.02		62-75-9	25
NELAC	n-Nitroso-di-n-butylamine	<1.02	ug/L	1.02		924-16-3	25
NELAC	N-Nitrosodi-n-propylamine	<1.02	ug/L	1.02		621-64-7	25
NELAC	N-Nitrosodiphenylamine (as DPA	<1.02	ug/L	1.02	X	86-30-6	25
NELAC	p-Chloro-m-Cresol (4-Chloro-3-me	<1.02	ug/L	1.02		59-50-7	25
NELAC	Pentachlorobenzene	<1.02	ug/L	1.02		608-93-5	25
NELAC	Pentachlorophenol	<5.00	ug/L	5.00		87-86-5	25
NELAC	Phenanthrene	<1.02	ug/L	1.02		85-01-8	25
NELAC	Phenol	<1.02	ug/L	1.02		108-95-2	25
NELAC	Pyrene	<1.02	ug/L	1.02		129-00-0	25
NELAC	Pyridine	<1.38	ug/L	1.38	D	110-86-1	25

EPA 625.1 *Prepared:* 1167572 03/27/2025 14:30:00 *Calculated* 1169408 04/09/2025 14:24:08 CAL

Parameter	Results	Units	RL	Flags	CAS	Bottle

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Printed: 05/16/2025

2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 07:00 3/27/25 *Taken:* 03/27/2025 07:00:00
#1 Autosampler #7241 Bottle #001501

Sample poured Date:3/27/25 Time:0910

#2 Autosampler #6358 Bottle #001726

Sample poured Date:3/27/25 Time:0920

EPA 625.1 *Prepared:* 1167572 03/27/2025 14:30:00 *Calculated* 1169408 04/09/2025 14:24:08 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Cresols Total**	**<8.19**	**ug/L**	8.19		**1319-77-3, etc.**	25

EPA 632 *Prepared:* 1167895 03/31/2025 12:51:46 *Analyzed* 1168631 04/02/2025 18:48:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Carbaryl (Sevin)**	**<2.50**	**ug/L**	2.50	D	**63-25-2**	36
z	**Danitol**	**<0.100**	**ug/L**	0.100		**64357-84-7**	36
z	**Diuron**	**<0.045**	**ug/L**	0.045		**330-54-1**	36

SM 2120 B-2011 *Prepared:* 1167646 03/28/2025 13:15:00 *Analyzed* 1167646 03/28/2025 13:15:00 PNR

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Color**	**15**	**PtCo Units**	5.0			13

SM 2320 B-2011 *Prepared:* 1168742 04/04/2025 09:25:00 *Analyzed* 1168742 04/04/2025 09:25:00 MRG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Alkalinity (as CaCO3)**	**53.2**	**mg/L**	1.00			02

SM 2540 C-2020 *Prepared:* 1168442 04/01/2025 09:30:00 *Analyzed* 1168442 04/01/2025 09:30:00 JMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Dissolved Solids**	**100**	**mg/L**	10.0			03

SM 2540 D-2020 *Prepared:* 1168499 04/02/2025 08:50:00 *Analyzed* 1168499 04/02/2025 08:50:00 ADR

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Suspended Solids**	**<2.00**	**mg/L**	2.00			01

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2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 Received: 03/27/2025

Non-Potable Water Collected by: GAC SPL Kilgore PO:

Composite Stop 07:00 3/27/25 Taken: 03/27/2025 07:00:00

#1 Autosampler #7241 Bottle #001501

Sample poured Date:3/27/25 Time:0910

#2 Autosampler #6358 Bottle #001726

Sample poured Date:3/27/25 Time:0920

SM 3500-Cr B-2011 Prepared: 1167536 03/27/2025 09:11:00 Analyzed 1167536 03/27/2025 09:11:00 GAC

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Hex Cr, Field Preservation**	**PRESERVED**	**ug/L**	3		**18540-29-9**	

SM 3500-Cr B-2011 Prepared: 1167740 03/27/2025 12:45:00 Analyzed 1167740 03/27/2025 12:45:00 ALB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Hexavalent Chromium**	**<3.00**	**ug/L**	3.00		**18540-29-9**	10

SM 4500-S2¯D-2011 Prepared: 1167729 03/28/2025 10:40:00 Analyzed 1167729 03/28/2025 10:40:00 PNR

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Sulfide**	**<0.020**	**mg/L**	0.020			05

SM 4500-SO3¯B-2011/EPA 377.1 Prepared: 1167651 03/27/2025 13:20:00 Analyzed 1167651 03/27/2025 13:20:00 ANC

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Sulfite, Lab**	**<2.00**	**mg/L**	2.00			07

SM 5210 B-2016 Prepared: 1167634 03/28/2025 Analyzed 1167634 04/02/2025 13:14:21 JW1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Biochemical Oxygen Demand (BOD5)**	**4.15**	**mg/L**	2.00		**1026-3**	01

SM 5210 B-2016 (TCMP Inhibitor) Prepared: 1167635 03/28/2025 Analyzed 1167635 04/02/2025 12:28:28 JW1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**BOD Carbonaceous**	**<2.00**	**mg/L**	2.00			03

SM 5220 D-2011 Prepared: 1168204 04/01/2025 11:30:00 Analyzed 1168204 04/01/2025 11:30:00 PNR

Parameter	Results	Units	RL	Flags	CAS	Bottle

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2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 07:00 3/27/25 *Taken:* 03/27/2025 07:00:00

#1 Autosampler #7241 Bottle #001501

Sample poured Date:3/27/25 Time:0910

#2 Autosampler #6358 Bottle #001726

Sample poured Date:3/27/25 Time:0920

SM 5220 D-2011 *Prepared:* 1168204 04/01/2025 11:30:00 *Analyzed* 1168204 04/01/2025 11:30:00 PNR

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Chemical Oxygen Demand**	**<20.0**	**mg/L**	20.0			08

SM 5310 C-2014 *Prepared:* 1167670 03/28/2025 00:09:00 *Analyzed* 1167670 03/28/2025 00:09:00 NCB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Organic Carbon**	**1.14**	**mg/L**	0.500			11

SM 5540 C-2011 *Prepared:* 1167888 03/28/2025 03:50:00 *Analyzed* 1167888 03/28/2025 03:50:00 TRC

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**MBAS (Surfactant/Foaming Agents)**	**<0.200**	**mg/L**	0.200			01

TX 1001 *Prepared:* 1168553 04/03/2025 13:45:00 *Analyzed* 1169722 04/09/2025 23:57:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Tributyltin hydride**	**<0.00694**	**ug/L**	0.00694		**688-73-3**	41

Sample Preparation

2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Composite Stop 07:00 3/27/25 03/27/2025

Prepared: 03/27/2025 14:30:32 *Calculated* 03/27/2025 14:30:32 CAL

z	**Enviro Fee (per Sampling Group)**	**Verified**

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2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Composite Stop 07:00 3/27/25 03/27/2025

	EPA 1657	*Prepared:*	*1167905*	*03/31/2025*	*12:50:00*	*Analyzed*	*1168306*	*04/01/2025*	*20:12:00*	*KAP*
z	**30 TAC 307 Oganophosphorous**	**Entered**								38
	EPA 200.2 2.8	*Prepared:*	*1167652*	*03/28/2025*	*06:00:00*	*Analyzed*	*1167652*	*03/28/2025*	*06:00:00*	*HLT*
z	**Liquid Metals Digestion**	**50/50**	**ml**							04
	EPA 350.1, Rev. 2.0	*Prepared:*	*1167613*	*03/27/2025*	*16:49:01*	*Analyzed*	*1167613*	*03/27/2025*	*16:49:01*	*JR1*
NELAC	**Ammonia Distillation**	**6/6**	**ml**							08
	EPA 351.2, Rev 2.0	*Prepared:*	*1167687*	*03/28/2025*	*10:38:33*	*Analyzed*	*1167687*	*03/28/2025*	*10:38:33*	*MEG*
NELAC	**TKN Block Digestion**	**20/20**	**ml**							06
	EPA 604.1	*Prepared:*	*1167676*	*03/28/2025*	*09:35:00*	*Analyzed*	*1167676*	*03/28/2025*	*09:35:00*	*MCC*
	Hexachlorophene Extraction	**5/957**	**ml**							16
	EPA 604.1	*Prepared:*	*1167676*	*03/28/2025*	*09:35:00*	*Analyzed*	*1167960*	*03/31/2025*	*04:00:00*	*BRU*
	Hexachlorophene Expansion	**Entered**						**70-30-4**		34
	EPA 608.3	*Prepared:*	*1167899*	*03/31/2025*	*13:03:29*	*Analyzed*	*1167899*	*03/31/2025*	*13:03:29*	*CRS*
	Liquid-Liquid Extr. W/Hex Ex	**1/1000**	**ml**							14
	EPA 608.3	*Prepared:*	*1167899*	*03/31/2025*	*13:03:29*	*Analyzed*	*1169467*	*04/02/2025*	*20:16:00*	*KAP*
NELAC	**Polychlorinated Biphenyls**	**Entered**								37

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2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Composite Stop 07:00 3/27/25 03/27/2025

	EPA 608.3	*Prepared:*	*1167899*	*03/31/2025*	*13:03:29*	*Analyzed*	*1168867*	*04/02/2025*	*20:16:00*	*KAP*
NELAC	**TTO Pesticides**	**Entered**								37
	EPA 608.3	*Prepared:*	*1167905*	*03/31/2025*	*12:50:00*	*Analyzed*	*1167905*	*03/31/2025*	*12:50:00*	*CRS*
	Solvent Extraction	**1/1000**	**ml**							14
	EPA 608.3	*Prepared:*	*1167907*	*03/31/2025*	*12:50:00*	*Analyzed*	*1167907*	*03/31/2025*	*12:50:00*	*CRS*
	PCB Liq-Liq Extr. W/Hex Exch.	**1/1000**	**ml**							14
	EPA 615	*Prepared:*	*1168083*	*04/01/2025*	*14:00:00*	*Analyzed*	*1168083*	*04/01/2025*	*14:00:00*	*CRS*
NELAC	**Esterification of Sample**	**10/999**	**ml**							17
	EPA 615	*Prepared:*	*1168083*	*04/01/2025*	*14:00:00*	*Analyzed*	*1168894*	*04/04/2025*	*14:37:00*	*KAP*
NELAC	**Herbicides by GC**	**Entered**								40
	EPA 617	*Prepared:*	*1167899*	*03/31/2025*	*13:03:29*	*Analyzed*	*1168859*	*04/02/2025*	*20:16:00*	*KAP*
z	**For use with !PPR only**	**Entered**								37
	EPA 625.1	*Prepared:*	*1167572*	*03/27/2025*	*14:30:00*	*Analyzed*	*1167572*	*03/27/2025*	*14:30:00*	*MCC*
	Liquid-Liquid Extraction, BNA	**1/977**	**ml**							12
	EPA 625.1	*Prepared:*	*1167572*	*03/27/2025*	*14:30:00*	*Analyzed*	*1169408*	*04/07/2025*	*21:37:00*	*PM1*
z	**TTO ABN 40 CFR Pt 122 Table II**	**Entered**								25

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2393856 **BT TPDES Permit Comp** COMP 3/26 0800 - 3/27 0700 *Received:* 03/27/2025

Composite Stop 07:00 3/27/25 03/27/2025

EPA 632	*Prepared:*	*1167895*	*03/31/2025*	*12:51:46*	*Analyzed*	*1167895*	*03/31/2025*	*12:51:46*	*CRS*	
Liquid-Liquid Extr. W/Hex Ex	**1/1000**	**ml**								14
EPA 632	*Prepared:*	*1167895*	*03/31/2025*	*12:51:46*	*Analyzed*	*1168631*	*04/02/2025*	*18:48:00*	*BRU*	
z **Carbaryl/Diuron/Danitol EXP**	**Entered**									36
SM 2540 C-2015	*Prepared:*	*1168025*	*04/01/2025*	*09:30:00*	*Analyzed*	*1168025*	*04/01/2025*	*09:30:00*	*JMB*	
NELAC **Total Dissolved Solids Started**	**Started**									
SM 2540 D-2011	*Prepared:*	*1168060*	*04/02/2025*	*08:50:00*	*Analyzed*	*1168060*	*04/02/2025*	*08:50:00*	*ADR*	
NELAC **TSS Set Started**	**Started**									
SM 5210 B-2016	*Prepared:*	*1167634*	*03/28/2025*		*Analyzed*	*1167634*	*03/28/2025*	*05:48:58*	*JW1*	
NELAC **BOD Set Started**	**Started**									
SM 5210 B-2016 (TCMP Inhibitor)	*Prepared:*	*1167635*	*03/28/2025*		*Analyzed*	*1167635*	*03/28/2025*	*05:48:58*	*JW1*	
NELAC **BODc Set Started**	**Started**									
TX 1001	*Prepared:*	*1168553*	*04/03/2025*	*13:45:00*	*Analyzed*	*1168553*	*04/03/2025*	*13:45:00*	*CRS*	
z **Butyltins Extraction**	**1/1009**	**ml**								18
TX 1001	*Prepared:*	*1168553*	*04/03/2025*	*13:45:00*	*Analyzed*	*1169722*	*04/09/2025*	*23:57:00*	*DWL*	
z **Butyltin Expansion**	**Entered**									41

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Qualifiers:

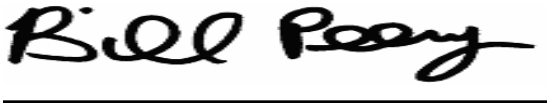
D - Duplicate RPD was higher than expected
S - Standard reads lower than desired
X - Standard reads higher than desired.

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation
z -- Not covered by our NELAC scope of accreditation

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RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.



Bill Peery, MS, VP Technical Services

QUALITY CONTROL

APEA-A

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Project
1141300

Printed 05/16/2025

Analytical Set 1167634 — SM 5210 B-2016

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Biochemical Oxygen Demand (BOD5)	1167634	0.2	0.200	0.500	mg/L	127453039
Biochemical Oxygen Demand (BOD5)	1167634	0.2	0.200	0.500	mg/L	127453089
Biochemical Oxygen Demand (BOD5)	1167634	0.2	0.200	0.500	mg/L	127453143

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Biochemical Oxygen Demand (BOD5)	2393764	27.8	26.9	mg/L	3.29	30.0
Biochemical Oxygen Demand (BOD5)	2393825	23.0	22.6	mg/L	1.75	30.0
Biochemical Oxygen Demand (BOD5)	2393979	86.7	86.7	mg/L	0	30.0
Biochemical Oxygen Demand (BOD5)	2394043	150	153	mg/L	1.98	30.0
Biochemical Oxygen Demand (BOD5)	2394109	11.7	12.6	mg/L	7.41	30.0

Seed Drop

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Biochemical Oxygen Demand (BOD5)	1167634	0.473	0.200	0.500	mg/L	127453041
Biochemical Oxygen Demand (BOD5)	1167634	0.457	0.200	0.500	mg/L	127453091
Biochemical Oxygen Demand (BOD5)	1167634	0.490	0.200	0.500	mg/L	127453145

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Biochemical Oxygen Demand (BOD5)		228	198	mg/L	115	83.7 - 116	127453042
Biochemical Oxygen Demand (BOD5)		216	198	mg/L	109	83.7 - 116	127453092
Biochemical Oxygen Demand (BOD5)		221	198	mg/L	112	83.7 - 116	127453146

Analytical Set 1167635 — SM 5210 B-2016 (TCMP Inhibitor)

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
BOD Carbonaceous	1167635	0.2	0.200	0.500	mg/L	127453159
BOD Carbonaceous	1167635	0.2	0.200	0.500	mg/L	127453213
BOD Carbonaceous	1167635	0.2	0.200	0.500	mg/L	127453263

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
BOD Carbonaceous	2393784	3.33	3.81	mg/L	13.4	30.0
BOD Carbonaceous	2393831	118	117	mg/L	0.851	30.0
BOD Carbonaceous	2393956	3.84	3.24	mg/L	16.9	30.0
BOD Carbonaceous	2394010	3.40	3.08	mg/L	9.88	30.0
BOD Carbonaceous	2394050	2.60	2.96	mg/L	12.9	30.0

Seed Drop

Parameter	PrepSet	Reading	MDL	MQL	Units	File
BOD Carbonaceous	1167635	0.507	0.200	0.500	mg/L	127453161
BOD Carbonaceous	1167635	0.470	0.200	0.500	mg/L	127453215
BOD Carbonaceous	1167635	0.460	0.200	0.500	mg/L	127453265

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Standard

Parameter	*Sample*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
BOD Carbonaceous		229	198	mg/L	116	83.7 - 116	127453162
BOD Carbonaceous		226	198	mg/L	114	83.7 - 116	127453216
BOD Carbonaceous		228	198	mg/L	115	83.7 - 116	127453266

Analytical Set 1168121 EPA 350.1 2

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Ammonia Nitrogen	1167613	ND	0.00336	0.020	mg/L	127464736

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Ammonia Nitrogen	2.06	2.00	mg/L	103	90.0 - 110	127464735
Ammonia Nitrogen	2.04	2.00	mg/L	102	90.0 - 110	127464744
Ammonia Nitrogen	2.02	2.00	mg/L	101	90.0 - 110	127464753
Ammonia Nitrogen	2.09	2.00	mg/L	104	90.0 - 110	127464761
Ammonia Nitrogen	2.03	2.00	mg/L	102	90.0 - 110	127464772
Ammonia Nitrogen	2.01	2.00	mg/L	100	90.0 - 110	127464782
Ammonia Nitrogen	1.95	2.00	mg/L	97.5	90.0 - 110	127464792
Ammonia Nitrogen	1.94	2.00	mg/L	97.0	90.0 - 110	127464803
Ammonia Nitrogen	1.96	2.00	mg/L	98.0	90.0 - 110	127464812
Ammonia Nitrogen	1.98	2.00	mg/L	99.0	90.0 - 110	127464823
Ammonia Nitrogen	1.97	2.00	mg/L	98.5	90.0 - 110	127464831
Ammonia Nitrogen	1.94	2.00	mg/L	97.0	90.0 - 110	127464840
Ammonia Nitrogen	2.02	2.00	mg/L	101	90.0 - 110	127464848
Ammonia Nitrogen	1.97	2.00	mg/L	98.5	90.0 - 110	127464858
Ammonia Nitrogen	2.02	2.00	mg/L	101	90.0 - 110	127464868
Ammonia Nitrogen	2.07	2.00	mg/L	104	90.0 - 110	127464879
Ammonia Nitrogen	2.06	2.00	mg/L	103	90.0 - 110	127464890
Ammonia Nitrogen	2.05	2.00	mg/L	102	90.0 - 110	127464898
Ammonia Nitrogen	2.04	2.00	mg/L	102	90.0 - 110	127464908
Ammonia Nitrogen	2.04	2.00	mg/L	102	90.0 - 110	127464918
Ammonia Nitrogen	2.06	2.00	mg/L	103	90.0 - 110	127464927

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
Ammonia Nitrogen	2393805	ND	ND	mg/L		20.0
Ammonia Nitrogen	2393932	ND	ND	mg/L		20.0

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Ammonia Nitrogen	2.14	2.00	mg/L	107	90.0 - 110	127464734

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Ammonia Nitrogen	1167613	2.18	2.12	2.00	90.0 - 110	109	106	mg/L	2.79	20.0

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Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Ammonia Nitrogen	2393805	2.11	ND	2.00	mg/L	106	80.0 - 120	127464745
Ammonia Nitrogen	2393932	2.03	ND	2.00	mg/L	102	80.0 - 120	127464741

Analytical Set 1168178 — EPA 351.2 2

AWRL/LOQ C

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	0.055	0.050	mg/L	110	75.0 - 125	127465433

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Kjeldahl Nitrogen	1167687	0.012	0.00712	0.050	mg/L	127465430

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.34	5.00	mg/L	107	90.0 - 110	127465415
Total Kjeldahl Nitrogen	5.50	5.00	mg/L	110	90.0 - 110	127465422
Total Kjeldahl Nitrogen	5.45	5.00	mg/L	109	90.0 - 110	127465429
Total Kjeldahl Nitrogen	5.44	5.00	mg/L	109	90.0 - 110	127465440
Total Kjeldahl Nitrogen	5.47	5.00	mg/L	109	90.0 - 110	127465447
Total Kjeldahl Nitrogen	5.42	5.00	mg/L	108	90.0 - 110	127465455
Total Kjeldahl Nitrogen	5.44	5.00	mg/L	109	90.0 - 110	127465461
Total Kjeldahl Nitrogen	5.32	5.00	mg/L	106	90.0 - 110	127465466

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Kjeldahl Nitrogen	2393790	0.331	0.324	mg/L	2.14	20.0
Total Kjeldahl Nitrogen	2393825	0.711	0.697	mg/L	1.99	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.46	5.00	mg/L	109	90.0 - 110	127465414

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Total Kjeldahl Nitrogen	1167687	5.33	5.48	5.00	90.0 - 110	107	110	mg/L	2.78	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Total Kjeldahl Nitrogen	2393790	5.45	0.324	5.00	mg/L	103	80.0 - 120	127465436
Total Kjeldahl Nitrogen	2393825	5.77	0.697	5.00	mg/L	101	80.0 - 120	127465439

Analytical Set 1168442 — SM 2540 C-2020

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Dissolved Solids	1168442	ND	5.00	5.00	mg/L	127471260

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ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Dissolved Solids	1168442	-0.0002			grams	127471247

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Dissolved Solids	2393856	106	100	mg/L	5.83	20.0

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File
Total Dissolved Solids	1168442	204	200	mg/L	102	85.0 - 115	127471248

Analytical Set 1168499 — SM 2540 D-2020

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Suspended Solids	1168499	ND	2	2	mg/L	127472270

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Suspended Solids	1168499	0			grams	127472269

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Suspended Solids	2393995	22.0	20.3	mg/L	8.04	20.0
Total Suspended Solids	2394025	43.0	43.0	mg/L	0	20.0
Total Suspended Solids	2394059	25.7	23.0	mg/L	11.1	20.0

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File
Total Suspended Solids	1168499	50.0	50.0	mg/L	100	90.0 - 110	127472303

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Total Suspended Solids		100	100	mg/L	100	90.0 - 110	127472302

Analytical Set 1167786 — EPA 300.0 2.1

AWRL/LOQ C

Parameter	Reading	Known	Units	Recover%	Limits%	File
Bromide	0.079	0.100	mg/L	79.0	70.0 - 130	127456569
Fluoride	0.093	0.100	mg/L	93.0	70.0 - 130	127456569
Nitrate-Nitrite Nitrogen	0.0569	0.053	mg/L	107	70.0 - 130	127456569
Nitrate-Nitrogen Total	0.0289	0.0226	mg/L	128	70.0 - 130	127456569

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Bromide	1167786	ND	0.0181	0.100	mg/L	127456570
Chloride	1167786	ND	0.0593	0.300	mg/L	127456570
Fluoride	1167786	ND	0.0112	0.100	mg/L	127456570
Nitrate-Nitrite Nitrogen	1167786	ND	0.0047	0.053	mg/L	127456570

QUALITY CONTROL

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Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Nitrate-Nitrogen Total	1167786	ND	0.00331	0.0226	mg/L	127456570
Sulfate	1167786	ND	0.0605	0.300	mg/L	127456570

CCB

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Bromide	1167786	0	0.0181	0.100	mg/L	127456566
Bromide	1167786	0	0.0181	0.100	mg/L	127456586
Bromide	1167786	0	0.0181	0.100	mg/L	127456598
Chloride	1167786	0	0.0593	0.300	mg/L	127456566
Chloride	1167786	0	0.0593	0.300	mg/L	127456586
Chloride	1167786	0	0.0593	0.300	mg/L	127456598
Fluoride	1167786	0	0.0112	0.100	mg/L	127456566
Fluoride	1167786	0	0.0112	0.100	mg/L	127456586
Fluoride	1167786	0	0.0112	0.100	mg/L	127456598
Nitrate-Nitrogen Total	1167786	0	0.00331	0.0226	mg/L	127456566
Nitrate-Nitrogen Total	1167786	0	0.00331	0.0226	mg/L	127456586
Nitrate-Nitrogen Total	1167786	0	0.00331	0.0226	mg/L	127456598
Sulfate	1167786	0.126	0.0605	0.300	mg/L	127456566
Sulfate	1167786	0.111	0.0605	0.300	mg/L	127456586
Sulfate	1167786	0.114	0.0605	0.300	mg/L	127456598

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Bromide	9.72	10.0	mg/L	97.2	90.0 - 110	127456565
Bromide	9.52	10.0	mg/L	95.2	90.0 - 110	127456585
Bromide	9.82	10.0	mg/L	98.2	90.0 - 110	127456597
Chloride	10.2	10.0	mg/L	102	90.0 - 110	127456565
Chloride	9.96	10.0	mg/L	99.6	90.0 - 110	127456585
Chloride	10.1	10.0	mg/L	101	90.0 - 110	127456597
Fluoride	10.4	10.0	mg/L	104	90.0 - 110	127456565
Fluoride	10.4	10.0	mg/L	104	90.0 - 110	127456585
Fluoride	10.5	10.0	mg/L	105	90.0 - 110	127456597
Nitrate-Nitrite Nitrogen	5.37	5.30	mg/L	101	90.0 - 110	127456565
Nitrate-Nitrite Nitrogen	5.33	5.30	mg/L	101	90.0 - 110	127456585
Nitrate-Nitrite Nitrogen	5.47	5.30	mg/L	103	90.0 - 110	127456597
Nitrate-Nitrogen Total	2.46	2.26	mg/L	109	90.0 - 110	127456565
Nitrate-Nitrogen Total	2.39	2.26	mg/L	106	90.0 - 110	127456585
Nitrate-Nitrogen Total	2.46	2.26	mg/L	109	90.0 - 110	127456597
Sulfate	10.1	10.0	mg/L	101	90.0 - 110	127456565
Sulfate	9.90	10.0	mg/L	99.0	90.0 - 110	127456585
Sulfate	10.0	10.0	mg/L	100	90.0 - 110	127456597

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Bromide	1167786	4.87	4.74	5.00	88.3 - 119	97.4	94.8	mg/L	2.71	20.0
Chloride	1167786	5.06	4.94	5.00	85.0 - 115	101	98.8	mg/L	2.40	20.0

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Fluoride	1167786	5.37	5.31	5.00	88.0 - 118	107	106	mg/L	1.12	20.0
Nitrate-Nitrite Nitrogen	1167786	2.89	2.82	2.65	88.0 - 117	109	106	mg/L	2.45	20.0
Nitrate-Nitrogen Total	1167786	1.22	1.19	1.13	86.3 - 117	108	105	mg/L	2.49	20.0
Sulfate	1167786	5.50	5.37	5.00	85.4 - 124	110	107	mg/L	2.39	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Bromide	2393642	18.7	18.7	ND	20.0	80.0 - 120	93.5	93.5	mg/L	0	20.0
Chloride	2393642	121	120	101	20.0	80.0 - 120	100	95.0	mg/L	5.13	20.0
Fluoride	2393642	20.7	20.6	0.960	20.0	80.0 - 120	98.7	98.2	mg/L	0.508	20.0
Nitrate-Nitrite Nitrogen	2393642	11.3	11.0	ND	10.6	80.0 - 120	107	104	mg/L	2.69	20.0
Nitrate-Nitrogen Total	2393642	4.85	4.65	0.00451	4.52	80.0 - 120	107	103	mg/L	4.21	20.0
Sulfate	2393642	88.1	88.4	68.0	20.0	80.0 - 120	100	102	mg/L	1.48	20.0
Bromide	2393676	9.23	9.18	ND	10.0	80.0 - 120	92.3	91.8	mg/L	0.543	20.0
Chloride	2393676	112	113	108	10.0	80.0 - 120	40.0 *	50.0 *	mg/L	22.2 *	20.0
Fluoride	2393676	9.95	10.0	0.660	10.0	80.0 - 120	92.9	93.4	mg/L	0.537	20.0
Nitrate-Nitrite Nitrogen	2393676	40.4	40.6	36.8	5.30	80.0 - 120	67.9 *	71.7 *	mg/L	5.41	20.0
Nitrate-Nitrogen Total	2393676	37.1	37.4	36.8	2.26	80.0 - 120	13.3 *	26.5 *	mg/L	66.7 *	20.0
Sulfate	2393676	238	241	243	10.0	80.0 - 120	-50.0 *	-20.0 *	mg/L	1.25	20.0

Analytical Set 1167670 — SM 5310 C-2014

AWRL/LOQ C

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Organic Carbon	1.97	2.00	mg/L	98.5	50.0 - 150	127454742

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Organic Carbon	1167670	0.159	0.0168	0.500	mg/L	127454735
Total Organic Carbon	1167670	0.131	0.0168	0.500	mg/L	127454741
Total Organic Carbon	1167670	0.116	0.0168	0.500	mg/L	127454770

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Organic Carbon	1167670	0.254	0.0168	0.500	mg/L	127454755
Total Organic Carbon	1167670	0.102	0.0168	0.500	mg/L	127454768

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Organic Carbon	10.1	10.0	mg/L	101	90.0 - 110	127454738
Total Organic Carbon	10.1	10.0	mg/L	101	90.0 - 110	127454756
Total Organic Carbon	9.87	10.0	mg/L	98.7	90.0 - 110	127454769

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Organic Carbon	21.0	20.0	mg/L	105	90.0 - 110	127454737

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ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Organic Carbon	10.2	10.0	mg/L	102	90.0 - 110	127454739

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File
Total Organic Carbon	1167670	5.02	5.00	mg/L	100	85.0 - 115	127454740
Total Organic Carbon	1167670	4.68	5.00	mg/L	93.6	85.0 - 115	127454771

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Total Organic Carbon	2391324	15.4	15.4	5.00	10.0	85.0 - 115	104	104	mg/L	0	20.0
Total Organic Carbon	2393676	15.9	16.2	5.70	10.0	85.0 - 115	102	105	mg/L	2.90	20.0

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Total Organic Carbon		50.7	50.0	mg/L	101	90.0 - 110	127454736

Analytical Set 1167701 — EPA 200.7 4.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Boron	1167652	ND	0.00103	0.008	mg/L	127455181
Phosphorus	1167652	ND	0.0353	0.040	mg/L	127455181
Tin, Total	1167652	0.00407	0.00288	0.010	mg/L	127455181
Titanium	1167652	ND	0.0284	0.040	mg/L	127455181

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Boron	0.990	1.00	mg/L	99.0	90.0 - 110	127455180
Boron	0.995	1.00	mg/L	99.5	90.0 - 110	127455190
Boron	1.00	1.00	mg/L	100	90.0 - 110	127455193
Phosphorus	0.984	1.00	mg/L	98.4	90.0 - 110	127455180
Phosphorus	1.00	1.00	mg/L	100	90.0 - 110	127455190
Phosphorus	1.00	1.00	mg/L	100	90.0 - 110	127455193
Tin, Total	0.246	0.250	mg/L	98.4	90.0 - 110	127455180
Tin, Total	0.248	0.250	mg/L	99.2	90.0 - 110	127455190
Tin, Total	0.248	0.250	mg/L	99.2	90.0 - 110	127455193
Titanium	0.992	1.00	mg/L	99.2	90.0 - 110	127455180
Titanium	0.993	1.00	mg/L	99.3	90.0 - 110	127455190
Titanium	1.00	1.00	mg/L	100	90.0 - 110	127455193

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Boron	10.4	10.0	mg/L	104	95.0 - 105	127455178
Phosphorus	25.1	25.0	mg/L	100	95.0 - 105	127455178
Tin, Total	1.00	1.00	mg/L	100	95.0 - 105	127455178
Titanium	10.2	10.0	mg/L	102	95.0 - 105	127455178

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ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Boron	1.03	1.00	mg/L	103	90.0 - 110	127455179
Phosphorus	1.03	1.00	mg/L	103	90.0 - 110	127455179
Tin, Total	0.251	0.250	mg/L	100	90.0 - 110	127455179
Titanium	1.03	1.00	mg/L	103	90.0 - 110	127455179

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Boron	1167652	1.02	1.02	1.00	85.0 - 115	102	102	mg/L	0	25.0
Phosphorus	1167652	4.20	4.17	4.00	85.0 - 115	105	104	mg/L	0.717	25.0
Tin, Total	1167652	0.489	0.491	0.500	85.0 - 115	97.8	98.2	mg/L	0.408	25.0
Titanium	1167652	0.505	0.503	0.500	85.0 - 115	101	101	mg/L	0.397	25.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Boron	2393856	1.04	1.06	0.0183	1.00	75.0 - 125	102	104	mg/L	1.94	25.0
Phosphorus	2393856	4.35	4.41	0.217	4.00	75.0 - 125	103	105	mg/L	1.44	25.0
Tin, Total	2393856	0.482	0.499	0.00397	0.500	75.0 - 125	95.6	99.0	mg/L	3.49	25.0
Titanium	2393856	0.499	0.504	ND	0.500	75.0 - 125	99.8	101	mg/L	0.997	25.0

Analytical Set 1167705 EPA 200.7 4.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Iron, Total	1167652	ND	0.00379	0.025	mg/L	127455254
Magnesium, Total	1167652	ND	0.00367	0.500	mg/L	127455254

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Iron, Total	2.50	2.50	mg/L	100	90.0 - 110	127455253
Iron, Total	2.50	2.50	mg/L	100	90.0 - 110	127455263
Iron, Total	2.47	2.50	mg/L	98.8	90.0 - 110	127455267
Magnesium, Total	25.2	25.0	mg/L	101	90.0 - 110	127455253
Magnesium, Total	25.1	25.0	mg/L	100	90.0 - 110	127455263
Magnesium, Total	24.8	25.0	mg/L	99.2	90.0 - 110	127455267

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Iron, Total	5.00	5.00	mg/L	100	95.0 - 105	127455247
Magnesium, Total	49.7	50.0	mg/L	99.4	95.0 - 105	127455247

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Iron, Total	2.60	2.50	mg/L	104	90.0 - 110	127455251
Magnesium, Total	25.4	25.0	mg/L	102	90.0 - 110	127455251

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Iron, Total	1167652	0.508	0.508	0.500	85.0 - 115	102	102	mg/L	0	25.0

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LCS Dup

Parameter	PrepSet	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Magnesium, Total	1167652	5.23	5.20		5.00	85.0 - 115	105	104	mg/L	0.575	25.0

LDR

Parameter	Reading	Known	Units	Recover%	Limits%	File
Iron, Total	9.78	10.0	mg/L	97.8	90.0 - 110	127455248
Magnesium, Total	104	100	mg/L	104	90.0 - 110	127455248

MRL Check

Parameter	Reading	Known	Units	Recover%	Limits%	File
Iron, Total	0.0482	0.050	mg/L	96.4	25.0 - 175	127455252
Magnesium, Total	0.513	0.500	mg/L	103	25.0 - 175	127455252

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Iron, Total	2393856	0.617	0.626	0.104	0.500	75.0 - 125	103	104	mg/L	1.74	25.0
Magnesium, Total	2393856	7.35	7.44	2.11	5.00	75.0 - 125	105	107	mg/L	1.70	25.0

Analytical Set 1167740 — SM 3500-Cr B-2011

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Hexavalent Chromium	1167740	ND	0.550	3.00	ug/L	127455685
Hexavalent Chromium	1167740	ND	0.550	3.00	ug/L	127455696
Hexavalent Chromium	1167740	0.910	0.550	3.00	ug/L	127455699

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Hexavalent Chromium	82.5	80.0	ug/L	103	90.0 - 110	127455686
Hexavalent Chromium	82.2	80.0	ug/L	103	90.0 - 110	127455697
Hexavalent Chromium	81.0	80.0	ug/L	101	90.0 - 110	127455700

LCS Dup

Parameter	PrepSet	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Hexavalent Chromium	1167740	81.8	83.0		80.0	85.0 - 115	102	104	ug/L	1.46	15.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Hexavalent Chromium	2393445	62.4	64.4	ND	80.0	70.0 - 130	78.0	80.5	ug/L	3.15	20.0

Analytical Set 1167869 — EPA 200.8 5.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Aluminum, Total	1167652	ND	0.0039	0.005	mg/L	127458210
Antimony, Total	1167652	ND	0.000847	0.003	mg/L	127458210
Arsenic, Total	1167652	ND	0.000902	0.001	mg/L	127458210
Beryllium, Total	1167652	ND	0.000162	0.001	mg/L	127458210
Cadmium, Total	1167652	ND	0.00012	0.001	mg/L	127458210
Chromium, Total	1167652	ND	0.000392	0.001	mg/L	127458210

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Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Cobalt, Total	1167652	ND	0.000167	0.001	mg/L	127458210
Copper, Total	1167652	ND	0.000325	0.001	mg/L	127458210
Manganese, Total	1167652	ND	0.000168	0.001	mg/L	127458210
Molybdenum, Total	1167652	ND	0.000155	0.001	mg/L	127458210
Nickel, Total	1167652	ND	0.000154	0.001	mg/L	127458210
Silver, Total	1167652	ND	0.000276	0.001	mg/L	127458210
Zinc, Total	1167652	ND	0.000844	0.001	mg/L	127458210

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Aluminum, Total	0.0518	0.05	mg/L	104	90.0 - 110	127458153
Aluminum, Total	0.0515	0.05	mg/L	103	90.0 - 110	127458164
Aluminum, Total	0.0504	0.05	mg/L	101	90.0 - 110	127458204
Aluminum, Total	0.0502	0.05	mg/L	100	90.0 - 110	127458214
Aluminum, Total	0.0492	0.05	mg/L	98.4	90.0 - 110	127458225
Aluminum, Total	0.0508	0.05	mg/L	102	90.0 - 110	127458234
Aluminum, Total	0.0509	0.05	mg/L	102	90.0 - 110	127458235
Antimony, Total	0.0464	0.05	mg/L	92.8	90.0 - 110	127458153
Antimony, Total	0.0465	0.05	mg/L	93.0	90.0 - 110	127458164
Antimony, Total	0.0454	0.05	mg/L	90.8	90.0 - 110	127458174
Antimony, Total	0.0461	0.05	mg/L	92.2	90.0 - 110	127458184
Antimony, Total	0.045	0.05	mg/L	90.0	90.0 - 110	127458193
Antimony, Total	0.0454	0.05	mg/L	90.8	90.0 - 110	127458214
Antimony, Total	0.0463	0.05	mg/L	92.6	90.0 - 110	127458225
Antimony, Total	0.0453	0.05	mg/L	90.6	90.0 - 110	127458234
Antimony, Total	0.0452	0.05	mg/L	90.4	90.0 - 110	127458235
Arsenic, Total	0.0516	0.05	mg/L	103	90.0 - 110	127458153
Arsenic, Total	0.0523	0.05	mg/L	105	90.0 - 110	127458164
Arsenic, Total	0.0519	0.05	mg/L	104	90.0 - 110	127458184
Arsenic, Total	0.0516	0.05	mg/L	103	90.0 - 110	127458193
Arsenic, Total	0.0524	0.05	mg/L	105	90.0 - 110	127458214
Arsenic, Total	0.0519	0.05	mg/L	104	90.0 - 110	127458225
Arsenic, Total	0.0518	0.05	mg/L	104	90.0 - 110	127458234
Arsenic, Total	0.0533	0.05	mg/L	107	90.0 - 110	127458235
Beryllium, Total	0.0505	0.05	mg/L	101	90.0 - 110	127458153
Beryllium, Total	0.0501	0.05	mg/L	100	90.0 - 110	127458184
Beryllium, Total	0.0493	0.05	mg/L	98.6	90.0 - 110	127458193
Beryllium, Total	0.050	0.05	mg/L	100	90.0 - 110	127458214
Beryllium, Total	0.051	0.05	mg/L	102	90.0 - 110	127458225
Beryllium, Total	0.0511	0.05	mg/L	102	90.0 - 110	127458234
Beryllium, Total	0.0506	0.05	mg/L	101	90.0 - 110	127458235
Cadmium, Total	0.0491	0.05	mg/L	98.2	90.0 - 110	127458153
Cadmium, Total	0.0497	0.05	mg/L	99.4	90.0 - 110	127458164
Cadmium, Total	0.050	0.05	mg/L	100	90.0 - 110	127458184
Cadmium, Total	0.0496	0.05	mg/L	99.2	90.0 - 110	127458193

QUALITY CONTROL

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Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Cadmium, Total	0.0502	0.05	mg/L	100	90.0 - 110	127458214
Cadmium, Total	0.0511	0.05	mg/L	102	90.0 - 110	127458225
Cadmium, Total	0.051	0.05	mg/L	102	90.0 - 110	127458234
Cadmium, Total	0.0511	0.05	mg/L	102	90.0 - 110	127458235
Chromium, Total	0.0522	0.05	mg/L	104	90.0 - 110	127458153
Chromium, Total	0.0511	0.05	mg/L	102	90.0 - 110	127458164
Chromium, Total	0.0521	0.05	mg/L	104	90.0 - 110	127458193
Chromium, Total	0.0494	0.05	mg/L	98.8	90.0 - 110	127458204
Chromium, Total	0.0501	0.05	mg/L	100	90.0 - 110	127458214
Chromium, Total	0.0506	0.05	mg/L	101	90.0 - 110	127458225
Chromium, Total	0.0509	0.05	mg/L	102	90.0 - 110	127458234
Chromium, Total	0.051	0.05	mg/L	102	90.0 - 110	127458235
Cobalt, Total	0.0525	0.05	mg/L	105	90.0 - 110	127458153
Cobalt, Total	0.0502	0.05	mg/L	100	90.0 - 110	127458214
Cobalt, Total	0.0507	0.05	mg/L	101	90.0 - 110	127458225
Copper, Total	0.0544	0.05	mg/L	109	90.0 - 110	127458153
Copper, Total	0.0511	0.05	mg/L	102	90.0 - 110	127458164
Copper, Total	0.0521	0.05	mg/L	104	90.0 - 110	127458184
Copper, Total	0.0527	0.05	mg/L	105	90.0 - 110	127458193
Copper, Total	0.0491	0.05	mg/L	98.2	90.0 - 110	127458204
Copper, Total	0.0503	0.05	mg/L	101	90.0 - 110	127458214
Copper, Total	0.052	0.05	mg/L	104	90.0 - 110	127458225
Copper, Total	0.0523	0.05	mg/L	105	90.0 - 110	127458234
Copper, Total	0.0526	0.05	mg/L	105	90.0 - 110	127458235
Manganese, Total	0.0522	0.05	mg/L	104	90.0 - 110	127458153
Manganese, Total	0.0515	0.05	mg/L	103	90.0 - 110	127458164
Manganese, Total	0.0517	0.05	mg/L	103	90.0 - 110	127458184
Manganese, Total	0.0518	0.05	mg/L	104	90.0 - 110	127458193
Manganese, Total	0.0502	0.05	mg/L	100	90.0 - 110	127458214
Manganese, Total	0.0506	0.05	mg/L	101	90.0 - 110	127458225
Manganese, Total	0.0515	0.05	mg/L	103	90.0 - 110	127458234
Manganese, Total	0.0518	0.05	mg/L	104	90.0 - 110	127458235
Molybdenum, Total	0.0496	0.05	mg/L	99.2	90.0 - 110	127458153
Molybdenum, Total	0.0481	0.05	mg/L	96.2	90.0 - 110	127458174
Molybdenum, Total	0.0536	0.05	mg/L	107	90.0 - 110	127458184
Molybdenum, Total	0.0496	0.05	mg/L	99.2	90.0 - 110	127458214
Molybdenum, Total	0.054	0.05	mg/L	108	90.0 - 110	127458225
Nickel, Total	0.0524	0.05	mg/L	105	90.0 - 110	127458153
Nickel, Total	0.0513	0.05	mg/L	103	90.0 - 110	127458164
Nickel, Total	0.0526	0.05	mg/L	105	90.0 - 110	127458184
Nickel, Total	0.0529	0.05	mg/L	106	90.0 - 110	127458193
Nickel, Total	0.051	0.05	mg/L	102	90.0 - 110	127458214
Nickel, Total	0.0518	0.05	mg/L	104	90.0 - 110	127458225
Nickel, Total	0.0523	0.05	mg/L	105	90.0 - 110	127458234
Nickel, Total	0.0529	0.05	mg/L	106	90.0 - 110	127458235

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Zinc, Total	0.0532	0.05	mg/L	106	90.0 - 110	127458153
Zinc, Total	0.0521	0.05	mg/L	104	90.0 - 110	127458164
Zinc, Total	0.0511	0.05	mg/L	102	90.0 - 110	127458174
Zinc, Total	0.0528	0.05	mg/L	106	90.0 - 110	127458184
Zinc, Total	0.0536	0.05	mg/L	107	90.0 - 110	127458193
Zinc, Total	0.051	0.05	mg/L	102	90.0 - 110	127458204
Zinc, Total	0.0515	0.05	mg/L	103	90.0 - 110	127458214
Zinc, Total	0.0534	0.05	mg/L	107	90.0 - 110	127458225
Zinc, Total	0.0539	0.05	mg/L	108	90.0 - 110	127458234
Zinc, Total	0.0541	0.05	mg/L	108	90.0 - 110	127458235

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Aluminum, Total	0.052	0.05	mg/L	104	90.0 - 110	127458148
Antimony, Total	0.0539	0.05	mg/L	108	90.0 - 110	127458148
Arsenic, Total	0.0504	0.05	mg/L	101	90.0 - 110	127458148
Beryllium, Total	0.0486	0.05	mg/L	97.2	90.0 - 110	127458148
Cadmium, Total	0.049	0.05	mg/L	98.0	90.0 - 110	127458148
Chromium, Total	0.0525	0.05	mg/L	105	90.0 - 110	127458148
Cobalt, Total	0.0522	0.05	mg/L	104	90.0 - 110	127458148
Copper, Total	0.0517	0.05	mg/L	103	90.0 - 110	127458148
Manganese, Total	0.0521	0.05	mg/L	104	90.0 - 110	127458148
Molybdenum, Total	0.0494	0.05	mg/L	98.8	90.0 - 110	127458148
Nickel, Total	0.0514	0.05	mg/L	103	90.0 - 110	127458148
Zinc, Total	0.0488	0.05	mg/L	97.6	90.0 - 110	127458148

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Aluminum, Total	1167652	0.560	0.553	0.500	85.0 - 115	112	111	mg/L	1.26	20.0
Antimony, Total	1167652	0.506	0.505	0.500	85.0 - 115	101	101	mg/L	0.198	20.0
Arsenic, Total	1167652	0.530	0.531	0.500	85.0 - 115	106	106	mg/L	0.189	20.0
Beryllium, Total	1167652	0.202	0.201	0.200	85.0 - 115	101	100	mg/L	0.496	20.0
Cadmium, Total	1167652	0.253	0.252	0.250	85.0 - 115	101	101	mg/L	0.396	20.0
Chromium, Total	1167652	0.551	0.545	0.500	85.0 - 115	110	109	mg/L	1.09	20.0
Cobalt, Total	1167652	0.536	0.526	0.500	85.0 - 115	107	105	mg/L	1.88	20.0
Copper, Total	1167652	0.543	0.536	0.500	85.0 - 115	109	107	mg/L	1.30	20.0
Manganese, Total	1167652	0.553	0.543	0.500	85.0 - 115	111	109	mg/L	1.82	20.0
Molybdenum, Total	1167652	0.443	0.442	0.500	85.0 - 115	88.6	88.4	mg/L	0.226	20.0
Nickel, Total	1167652	0.542	0.534	0.500	85.0 - 115	108	107	mg/L	1.49	20.0
Silver, Total	1167652	0.0935	0.0933	0.100	85.0 - 115	93.5	93.3	mg/L	0.214	20.0
Zinc, Total	1167652	0.559	0.554	0.500	85.0 - 115	112	111	mg/L	0.898	20.0

MRL Check

Parameter	Reading	Known	Units	Recover%	Limits%	File
Copper, Total	0.00033	0.001	mg/L	33.0	25.0 - 175	127458149
Manganese, Total	0.00106	0.001	mg/L	106	25.0 - 175	127458149

QUALITY CONTROL

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MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
Aluminum, Total	2393777	0.620	0.618	0.0844	0.500	70.0 - 130	107	107	mg/L	0.374	20.0
Antimony, Total	2393777	0.498	0.498	0.00217	0.500	70.0 - 130	99.2	99.2	mg/L	0	20.0
Arsenic, Total	2393777	0.510	0.502	0.00778	0.500	70.0 - 130	100	98.8	mg/L	1.61	20.0
Beryllium, Total	2393777	0.192	0.193	ND	0.200	70.0 - 130	96.0	96.5	mg/L	0.519	20.0
Cadmium, Total	2393777	0.218	0.219	ND	0.250	70.0 - 130	87.2	87.6	mg/L	0.458	20.0
Chromium, Total	2393777	0.531	0.527	0.00071	0.500	70.0 - 130	106	105	mg/L	0.757	20.0
Cobalt, Total	2393777	0.498	0.502	0.000549	0.500	70.0 - 130	99.5	100	mg/L	0.801	20.0
Copper, Total	2393777	0.484	0.485	0.00438	0.500	70.0 - 130	95.9	96.1	mg/L	0.208	20.0
Manganese, Total	2393777	0.568	0.567	0.0637	0.500	70.0 - 130	101	101	mg/L	0.198	20.0
Molybdenum, Total	2393777	0.455	0.459	0.0102	0.500	70.0 - 130	89.0	89.8	mg/L	0.895	20.0
Nickel, Total	2393777	0.489	0.494	0.00521	0.500	70.0 - 130	96.8	97.8	mg/L	1.03	20.0
Zinc, Total	2393777	0.472	0.484	0.0419	0.500	70.0 - 130	86.0	88.4	mg/L	2.75	20.0
Aluminum, Total	2393856	0.539	0.554	0.0118	0.500	70.0 - 130	105	108	mg/L	2.81	20.0
Antimony, Total	2393856	0.502	0.512	ND	0.500	70.0 - 130	100	102	mg/L	1.97	20.0
Arsenic, Total	2393856	0.513	0.525	ND	0.500	70.0 - 130	103	105	mg/L	2.31	20.0
Beryllium, Total	2393856	0.201	0.202	ND	0.200	70.0 - 130	100	101	mg/L	0.496	20.0
Cadmium, Total	2393856	0.247	0.250	0.00014	0.250	70.0 - 130	98.7	99.9	mg/L	1.21	20.0
Chromium, Total	2393856	0.546	0.557	0.000489	0.500	70.0 - 130	109	111	mg/L	2.00	20.0
Cobalt, Total	2393856	0.535	0.544	0.00172	0.500	70.0 - 130	107	108	mg/L	1.67	20.0
Copper, Total	2393856	0.552	0.558	0.00452	0.500	70.0 - 130	109	111	mg/L	1.09	20.0
Manganese, Total	2393856	0.568	0.575	0.0239	0.500	70.0 - 130	109	110	mg/L	1.28	20.0
Molybdenum, Total	2393856	0.446	0.457	0.00152	0.500	70.0 - 130	88.9	91.1	mg/L	2.44	20.0
Nickel, Total	2393856	0.543	0.551	0.00221	0.500	70.0 - 130	108	110	mg/L	1.47	20.0
Zinc, Total	2393856	0.570	0.572	0.0184	0.500	70.0 - 130	110	111	mg/L	0.362	20.0

Analytical Set 1168008 EPA 200.8 5.4

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Barium, Total	1167652	ND	0.00207	0.005	mg/L	127462436
Lead, Total	1167652	ND	0.000549	0.001	mg/L	127462436
Selenium, Total	1167652	ND	0.00294	0.005	mg/L	127462436
Thallium, Total	1167652	ND	0.000966	0.001	mg/L	127462436

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Barium, Total	0.0508	0.05	mg/L	102	90.0 - 110	127462325
Barium, Total	0.052	0.05	mg/L	104	90.0 - 110	127462335
Barium, Total	0.0523	0.05	mg/L	105	90.0 - 110	127462346
Barium, Total	0.052	0.05	mg/L	104	90.0 - 110	127462355
Barium, Total	0.0519	0.05	mg/L	104	90.0 - 110	127462365
Barium, Total	0.0523	0.05	mg/L	105	90.0 - 110	127462372
Barium, Total	0.0522	0.05	mg/L	104	90.0 - 110	127462382
Barium, Total	0.0521	0.05	mg/L	104	90.0 - 110	127462393
Barium, Total	0.0529	0.05	mg/L	106	90.0 - 110	127462434
Barium, Total	0.0529	0.05	mg/L	106	90.0 - 110	127462444

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Barium, Total	0.0534	0.05	mg/L	107	90.0 - 110	127462447
Lead, Total	0.0519	0.05	mg/L	104	90.0 - 110	127462325
Lead, Total	0.0513	0.05	mg/L	103	90.0 - 110	127462335
Lead, Total	0.0512	0.05	mg/L	102	90.0 - 110	127462346
Lead, Total	0.0515	0.05	mg/L	103	90.0 - 110	127462355
Lead, Total	0.0516	0.05	mg/L	103	90.0 - 110	127462365
Lead, Total	0.0517	0.05	mg/L	103	90.0 - 110	127462372
Lead, Total	0.0514	0.05	mg/L	103	90.0 - 110	127462382
Lead, Total	0.0517	0.05	mg/L	103	90.0 - 110	127462393
Lead, Total	0.0523	0.05	mg/L	105	90.0 - 110	127462434
Lead, Total	0.0523	0.05	mg/L	105	90.0 - 110	127462444
Lead, Total	0.0521	0.05	mg/L	104	90.0 - 110	127462447
Selenium, Total	0.0513	0.05	mg/L	103	90.0 - 110	127462325
Selenium, Total	0.0521	0.05	mg/L	104	90.0 - 110	127462335
Selenium, Total	0.0531	0.05	mg/L	106	90.0 - 110	127462346
Selenium, Total	0.0526	0.05	mg/L	105	90.0 - 110	127462355
Selenium, Total	0.0524	0.05	mg/L	105	90.0 - 110	127462365
Selenium, Total	0.0531	0.05	mg/L	106	90.0 - 110	127462372
Selenium, Total	0.0529	0.05	mg/L	106	90.0 - 110	127462382
Selenium, Total	0.053	0.05	mg/L	106	90.0 - 110	127462393
Selenium, Total	0.0527	0.05	mg/L	105	90.0 - 110	127462403
Selenium, Total	0.0535	0.05	mg/L	107	90.0 - 110	127462413
Selenium, Total	0.0533	0.05	mg/L	107	90.0 - 110	127462424
Selenium, Total	0.053	0.05	mg/L	106	90.0 - 110	127462434
Selenium, Total	0.0526	0.05	mg/L	105	90.0 - 110	127462444
Selenium, Total	0.0523	0.05	mg/L	105	90.0 - 110	127462447
Thallium, Total	0.0511	0.05	mg/L	102	90.0 - 110	127462434
Thallium, Total	0.0507	0.05	mg/L	101	90.0 - 110	127462444
Thallium, Total	0.0505	0.05	mg/L	101	90.0 - 110	127462447

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Barium, Total	0.050	0.05	mg/L	100	90.0 - 110	127462320
Lead, Total	0.0505	0.05	mg/L	101	90.0 - 110	127462320
Selenium, Total	0.0513	0.05	mg/L	103	90.0 - 110	127462320
Thallium, Total	0.050	0.05	mg/L	100	90.0 - 110	127462320

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Barium, Total	1167652	0.518	0.517	0.500	85.0 - 115	104	103	mg/L	0.193	20.0
Lead, Total	1167652	0.521	0.516	0.500	85.0 - 115	104	103	mg/L	0.964	20.0
Selenium, Total	1167652	0.564	0.559	0.500	85.0 - 115	113	112	mg/L	0.890	20.0
Thallium, Total	1167652	0.499	0.494	0.500	85.0 - 115	99.8	98.8	mg/L	1.01	20.0

MRL Check

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*

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MRL Check

Parameter	Reading	Known	Units	Recover%	Limits%	File
Lead, Total	0.00102	0.001	mg/L	102	85.0 - 115	127462321

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Barium, Total	2393856	0.612	0.627	0.102	0.500	70.0 - 130	102	105	mg/L	2.90	20.0
Lead, Total	2393856	0.508	0.522	ND	0.500	70.0 - 130	102	104	mg/L	2.72	20.0
Selenium, Total	2393856	0.544	0.559	ND	0.500	70.0 - 130	109	112	mg/L	2.72	20.0
Thallium, Total	2393856	0.492	0.504	ND	0.500	70.0 - 130	98.4	101	mg/L	2.41	20.0

Analytical Set 1168097 — EPA 200.8 5.4

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Silver, Total	0.0504	0.05	mg/L	101	90.0 - 110	127464203
Silver, Total	0.051	0.05	mg/L	102	90.0 - 110	127464214
Silver, Total	0.050	0.05	mg/L	100	90.0 - 110	127464224

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Silver, Total	0.0505	0.05	mg/L	101	90.0 - 110	127464198

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Silver, Total	2393856	0.0844	0.0858	ND	0.100	70.0 - 130	84.4	85.8	mg/L	1.65	20.0

Analytical Set 1167960 — EPA 604.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Hexachlorophene	1167676	ND	0.890	2.50	ug/L	127460805

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Hexachlorophene	5120	5000	ug/L	102	70.0 - 130	127460804
Hexachlorophene	5090	5000	ug/L	102	70.0 - 130	127460808
Hexachlorophene	5230	5000	ug/L	105	70.0 - 130	127460812

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Hexachlorophene	1167676	38.5	33.7	50.0	25.5 - 145	77.0	67.4	ug/L	13.3	50.0

Analytical Set 1168306 — EPA 1657

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Azinphos-methyl (Guthion)	1167905	ND	41.4	50.0	ug/L	127468399
Chlorpyrifos	1167905	ND	22.6	50.0	ug/L	127468399
Demeton	1167905	ND	31.9	50.0	ug/L	127468399
Diazinon	1167905	ND	19.7	50.0	ug/L	127468399

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Malathion	1167905	ND	24.8	50.0	ug/L	127468399
Parathion, ethyl	1167905	ND	23.9	50.0	ug/L	127468399
Parathion, methyl	1167905	ND	27.4	50.0	ug/L	127468399

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Azinphos-methyl (Guthion)	1000	1000	ug/L	100	37.0 - 150	127468398
Azinphos-methyl (Guthion)	1450	1000	ug/L	145	37.0 - 150	127468403
Chlorpyrifos	1010	1000	ug/L	101	48.0 - 150	127468398
Chlorpyrifos	1270	1000	ug/L	127	48.0 - 150	127468403
Demeton	994	1000	ug/L	99.4	16.0 - 150	127468398
Demeton	1330	1000	ug/L	133	16.0 - 150	127468403
Diazinon	983	1000	ug/L	98.3	50.0 - 150	127468398
Diazinon	1230	1000	ug/L	123	50.0 - 150	127468403
Malathion	964	1000	ug/L	96.4	50.0 - 150	127468398
Malathion	1080	1000	ug/L	108	50.0 - 150	127468403
Parathion, ethyl	918	1000	ug/L	91.8	50.0 - 150	127468398
Parathion, ethyl	1230	1000	ug/L	123	50.0 - 150	127468403
Parathion, methyl	1010	1000	ug/L	101	50.0 - 150	127468398
Parathion, methyl	1230	1000	ug/L	123	50.0 - 150	127468403

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Azinphos-methyl (Guthion)	1167905	682	607	1000	0.100 - 152	68.2	60.7	ug/L	11.6	50.0
Chlorpyrifos	1167905	516	482	1000	0.100 - 132	51.6	48.2	ug/L	6.81	50.0
Demeton	1167905	347	310	1000	0.100 - 114	34.7	31.0	ug/L	11.3	50.0
Diazinon	1167905	456	403	1000	0.100 - 119	45.6	40.3	ug/L	12.3	50.0
Malathion	1167905	417	385	1000	0.100 - 126	41.7	38.5	ug/L	7.98	50.0
Parathion, ethyl	1167905	442	404	1000	0.100 - 138	44.2	40.4	ug/L	8.98	50.0
Parathion, methyl	1167905	467	444	1000	0.100 - 125	46.7	44.4	ug/L	5.05	50.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tributylphosphate		CCV	1020	2000	ug/L	51.0	0.100 - 106	127468398
Tributylphosphate		CCV	1210	2000	ug/L	60.5	0.100 - 106	127468403
Triphenylphosphate		CCV	983	2000	ug/L	49.2	0.100 - 172	127468398
Triphenylphosphate		CCV	1250	2000	ug/L	62.5	0.100 - 172	127468403
Tributylphosphate	1167905	Blank	540	2000	ug/L	27.0	0.100 - 106	127468399
Tributylphosphate	1167905	LCS	456	2000	ug/L	22.8	0.100 - 106	127468400
Tributylphosphate	1167905	LCS Dup	407	2000	ug/L	20.4	0.100 - 106	127468401
Triphenylphosphate	1167905	Blank	526	2000	ug/L	26.3	0.100 - 172	127468399
Triphenylphosphate	1167905	LCS	466	2000	ug/L	23.3	0.100 - 172	127468400
Triphenylphosphate	1167905	LCS Dup	408	2000	ug/L	20.4	0.100 - 172	127468401
Tributylphosphate	2393856	Unknown	0.679	2.00	ug/L	34.0	0.100 - 106	127468402
Triphenylphosphate	2393856	Unknown	0.641	2.00	ug/L	32.0	0.100 - 172	127468402

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Analytical Set 1168631 — EPA 632

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Carbaryl (Sevin)	1167895	ND	66.1	2500	ug/L	127474809
Danitol	1167895	ND	66.1	2500	ug/L	127474809
Diuron	1167895	ND	44.4	45.0	ug/L	127474809

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
Carbaryl (Sevin)	9810	10000	ug/L	98.1	70.0 - 130		127474807
Carbaryl (Sevin)	10500	10000	ug/L	105	70.0 - 130		127474818
Danitol	9520	10000	ug/L	95.2	70.0 - 130		127474807
Danitol	10300	10000	ug/L	103	70.0 - 130		127474818
Diuron	9330	10000	ug/L	93.3	70.0 - 130		127474807
Diuron	10300	10000	ug/L	103	70.0 - 130		127474818

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Carbaryl (Sevin)	1167895	427	767	1000	17.1 - 131	42.7	76.7	ug/L	57.0 *	30.0
Danitol	1167895	3100	3850	1000	0.100 - 334	310	385 *	ug/L	21.6	30.0
Diuron	1167895	825	1240	1000	0.100 - 138	82.5	124	ug/L	40.2 *	30.0

Analytical Set 1168859 — EPA 617

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Kelthane (Dicofol)	1167899	ND	3.52	5.00	ug/L	127479778
Methoxychlor	1167899	ND	0.897	1.00	ug/L	127479778
Mirex	1167899	ND	0.905	1.00	ug/L	127479778

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
Kelthane (Dicofol)	105	100	ug/L	105	60.0 - 130		127479777
Kelthane (Dicofol)	47.7	100	ug/L	47.7	60.0 - 130	*	127479786
Methoxychlor	48.4	50.0	ug/L	96.8	70.0 - 130		127479777
Methoxychlor	34.8	50.0	ug/L	69.5	70.0 - 130	*	127479786
Mirex	43.0	50.0	ug/L	86.0	70.0 - 130		127479777
Mirex	39.4	50.0	ug/L	78.7	70.0 - 130		127479786

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Kelthane (Dicofol)	1167899	129	145	100	0.100 - 137	129	145 *	ug/L	11.7	30.0
Methoxychlor	1167899	79.6	87.6	100	21.5 - 151	79.6	87.6	ug/L	9.57	30.0
Mirex	1167899	61.5	69.6	100	11.6 - 140	61.5	69.6	ug/L	12.4	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl		CCV	44.1	100	ug/L	44.1	10.0 - 150	127479777
Decachlorobiphenyl		CCV	44.4	100	ug/L	44.4	10.0 - 150	127479786

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Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Tetrachloro-m-Xylene (Surr)		CCV	49.3	100	ug/L	49.3	10.0 - 150	127479777
Tetrachloro-m-Xylene (Surr)		CCV	48.6	100	ug/L	48.6	10.0 - 150	127479786
Decachlorobiphenyl	1167899	Blank	74.7	100	ug/L	74.7	10.0 - 150	127479778
Decachlorobiphenyl	1167899	LCS	76.8	100	ug/L	76.8	10.0 - 150	127479779
Decachlorobiphenyl	1167899	LCS Dup	78.8	100	ug/L	78.8	10.0 - 150	127479780
Tetrachloro-m-Xylene (Surr)	1167899	Blank	53.6	100	ug/L	53.6	10.0 - 150	127479778
Tetrachloro-m-Xylene (Surr)	1167899	LCS	49.3	100	ug/L	49.3	10.0 - 150	127479779
Tetrachloro-m-Xylene (Surr)	1167899	LCS Dup	49.0	100	ug/L	49.0	10.0 - 150	127479780
Decachlorobiphenyl	2393856	Unknown	0.0711	0.100	ug/L	71.1	10.0 - 150	127479782
Tetrachloro-m-Xylene (Surr)	2393856	Unknown	0.0697	0.100	ug/L	69.7	10.0 - 150	127479782

Analytical Set 1168867 — EPA 608.3

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
4,4-DDD	1167899	ND	0.731	1.00	ug/L	127479888
4,4-DDE	1167899	ND	0.361	1.00	ug/L	127479888
4,4-DDT	1167899	ND	0.862	1.00	ug/L	127479888
Aldrin	1167899	ND	0.260	1.00	ug/L	127479888
Alpha-BHC(hexachlorocyclohexane)	1167899	ND	0.280	1.00	ug/L	127479888
Beta-BHC(hexachlorocyclohexane)	1167899	0.660	0.579	1.00	ug/L	127479888
Delta-BHC(hexachlorocyclohexane)	1167899	ND	0.898	1.00	ug/L	127479888
Dieldrin	1167899	ND	0.162	1.00	ug/L	127479888
Endosulfan I (alpha)	1167899	ND	0.679	1.00	ug/L	127479888
Endosulfan II (beta)	1167899	ND	0.356	1.00	ug/L	127479888
Endosulfan sulfate	1167899	ND	0.588	1.00	ug/L	127479888
Endrin	1167899	ND	0.538	1.00	ug/L	127479888
Endrin aldehyde	1167899	ND	0.699	1.00	ug/L	127479888
Gamma-BHC(Lindane)	1167899	ND	0.385	1.00	ug/L	127479888
Heptachlor	1167899	ND	0.207	1.00	ug/L	127479888
Heptachlor epoxide	1167899	ND	0.660	1.00	ug/L	127479888
Toxaphene	1167899	ND	0.169	0.200	ug/L	127479888

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*		*File*
4,4-DDD	45.6	50.0	ug/L	91.2	75.0 - 125		127479887
4,4-DDD	49.5	50.0	ug/L	99.0	75.0 - 125		127479896
4,4-DDE	46.0	50.0	ug/L	92.0	75.0 - 125		127479887
4,4-DDE	48.0	50.0	ug/L	96.0	75.0 - 125		127479896
4,4-DDT	46.8	50.0	ug/L	93.6	75.0 - 125		127479887
4,4-DDT	31.8	50.0	ug/L	63.6	75.0 - 125	*	127479896
Aldrin	46.4	50.0	ug/L	92.8	75.0 - 125		127479887
Aldrin	53.1	50.0	ug/L	106	75.0 - 125		127479896
Alpha-BHC(hexachlorocyclohexane)	47.1	50.0	ug/L	94.2	75.0 - 125		127479887
Alpha-BHC(hexachlorocyclohexane)	55.2	50.0	ug/L	110	75.0 - 125		127479896
Beta-BHC(hexachlorocyclohexane)	47.1	50.0	ug/L	94.2	75.0 - 125		127479887

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Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Beta-BHC(hexachlorocyclohexane)	52.6	50.0	ug/L	105	75.0 - 125	127479896
Delta-BHC(hexachlorocyclohexane)	50.0	50.0	ug/L	100	75.0 - 125	127479887
Delta-BHC(hexachlorocyclohexane)	56.7	50.0	ug/L	113	75.0 - 125	127479896
Dieldrin	45.6	50.0	ug/L	91.2	75.0 - 125	127479887
Dieldrin	52.1	50.0	ug/L	104	75.0 - 125	127479896
Endosulfan I (alpha)	44.7	50.0	ug/L	89.4	75.0 - 125	127479887
Endosulfan I (alpha)	50.6	50.0	ug/L	101	75.0 - 125	127479896
Endosulfan II (beta)	44.0	50.0	ug/L	88.0	75.0 - 125	127479887
Endosulfan II (beta)	46.0	50.0	ug/L	92.0	75.0 - 125	127479896
Endosulfan sulfate	46.0	50.0	ug/L	92.0	75.0 - 125	127479887
Endosulfan sulfate	45.8	50.0	ug/L	91.6	75.0 - 125	127479896
Endrin	45.6	50.0	ug/L	91.2	75.0 - 125	127479887
Endrin	52.1	50.0	ug/L	104	75.0 - 125	127479896
Endrin aldehyde	50.3	50.0	ug/L	101	75.0 - 125	127479887
Endrin aldehyde	47.7	50.0	ug/L	95.4	75.0 - 125	127479896
Gamma-BHC(Lindane)	46.3	50.0	ug/L	92.6	75.0 - 125	127479887
Gamma-BHC(Lindane)	45.4	50.0	ug/L	90.8	75.0 - 125	127479896
Heptachlor	44.2	50.0	ug/L	88.4	75.0 - 125	127479887
Heptachlor	40.7	50.0	ug/L	81.4	75.0 - 125	127479896
Heptachlor epoxide	44.2	50.0	ug/L	88.4	75.0 - 125	127479887
Heptachlor epoxide	52.1	50.0	ug/L	104	75.0 - 125	127479896

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
4,4-DDD	1167899	70.3	77.7	100	31.0 - 141	70.3	77.7	ug/L	10.0	39.0
4,4-DDE	1167899	62.3	68.2	100	30.0 - 145	62.3	68.2	ug/L	9.04	35.0
4,4-DDT	1167899	71.6	81.3	100	25.0 - 160	71.6	81.3	ug/L	12.7	42.0
Aldrin	1167899	49.3	54.8	100	42.0 - 140	49.3	54.8	ug/L	10.6	35.0
Alpha-BHC(hexachlorocyclohexane)	1167899	69.4	71.5	100	37.0 - 140	69.4	71.5	ug/L	2.98	36.0
Beta-BHC(hexachlorocyclohexane)	1167899	74.0	79.5	100	17.0 - 147	74.0	79.5	ug/L	7.17	44.0
Delta-BHC(hexachlorocyclohexane)	1167899	81.0	85.8	100	19.0 - 140	81.0	85.8	ug/L	5.76	52.0
Dieldrin	1167899	67.3	73.4	100	36.0 - 146	67.3	73.4	ug/L	8.67	49.0
Endosulfan I (alpha)	1167899	66.1	70.6	100	45.0 - 153	66.1	70.6	ug/L	6.58	28.0
Endosulfan II (beta)	1167899	75.9	80.3	100	0.100 - 202	75.9	80.3	ug/L	5.63	53.0
Endosulfan sulfate	1167899	78.3	83.2	100	26.0 - 144	78.3	83.2	ug/L	6.07	38.0
Endrin	1167899	74.4	79.6	100	30.0 - 147	74.4	79.6	ug/L	6.75	48.0
Endrin aldehyde	1167899	84.7	91.7	100	37.6 - 158	84.7	91.7	ug/L	7.94	30.0
Gamma-BHC(Lindane)	1167899	66.7	71.7	100	32.0 - 140	66.7	71.7	ug/L	7.23	39.0
Heptachlor	1167899	51.0	64.1	100	34.0 - 140	51.0	64.1	ug/L	22.8	43.0
Heptachlor epoxide	1167899	65.0	70.0	100	37.0 - 142	65.0	70.0	ug/L	7.41	26.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Decachlorobiphenyl		CCV	44.1	100	ug/L	44.1	0.100 - 144	127479887
Decachlorobiphenyl		CCV	44.4	100	ug/L	44.4	0.100 - 144	127479896

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tetrachloro-m-Xylene (Surr)		CCV	49.3	100	ug/L	49.3	0.100 - 107	127479887
Tetrachloro-m-Xylene (Surr)		CCV	48.6	100	ug/L	48.6	0.100 - 107	127479896
Decachlorobiphenyl	1167899	Blank	74.7	100	ug/L	74.7	0.100 - 144	127479888
Decachlorobiphenyl	1167899	LCS	76.8	100	ug/L	76.8	0.100 - 144	127479889
Decachlorobiphenyl	1167899	LCS Dup	78.8	100	ug/L	78.8	0.100 - 144	127479890
Tetrachloro-m-Xylene (Surr)	1167899	Blank	53.6	100	ug/L	53.6	0.100 - 107	127479888
Tetrachloro-m-Xylene (Surr)	1167899	LCS	49.3	100	ug/L	49.3	0.100 - 107	127479889
Tetrachloro-m-Xylene (Surr)	1167899	LCS Dup	49.0	100	ug/L	49.0	0.100 - 107	127479890
Decachlorobiphenyl	2393856	Unknown	0.0711	0.100	ug/L	71.1	0.100 - 144	127479892
Tetrachloro-m-Xylene (Surr)	2393856	Unknown	0.0697	0.100	ug/L	69.7	0.100 - 107	127479892

Analytical Set 1168894 — EPA 615

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
2,4 Dichlorophenoxyacetic acid	1168083	ND	0.237	0.500	ug/L	127480454
2,4,5-TP (Silvex)	1168083	0.183	0.130	0.300	ug/L	127480454

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
2,4 Dichlorophenoxyacetic acid	169	150	ug/L	112	80.0 - 115	127480453
2,4 Dichlorophenoxyacetic acid	171	150	ug/L	114	80.0 - 115	127480458
2,4,5-TP (Silvex)	155	150	ug/L	103	80.0 - 115	127480453
2,4,5-TP (Silvex)	141	150	ug/L	94.1	80.0 - 115	127480458

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
2,4 Dichlorophenoxyacetic acid	1168083	0.703	0.692	1.00	0.100 - 319	70.3	69.2	ug/L	1.58	30.0
2,4,5-TP (Silvex)	1168083	0.881	0.827	1.00	0.100 - 244	88.1	82.7	ug/L	6.32	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	154	200	ug/L	77.0	0.100 - 313	127480453
2,4-Dichlorophenylacetic Acid		CCV	178	200	ug/L	89.0	0.100 - 313	127480458
2,4-Dichlorophenylacetic Acid	1168083	Blank	138	200	ug/L	69.0	0.100 - 313	127480454
2,4-Dichlorophenylacetic Acid	1168083	LCS	170	200	ug/L	85.0	0.100 - 313	127480455
2,4-Dichlorophenylacetic Acid	1168083	LCS Dup	176	200	ug/L	88.0	0.100 - 313	127480456
2,4-Dichlorophenylacetic Acid	2393856	Unknown	0.633	2.00	ug/L	31.6	0.100 - 313	127480457

Analytical Set 1169408 — EPA 625.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
1,2,4,5-Tetrachlorobenzene	1167572	ND	1.03	1.03	ug/L	127488990
1,2,4-Trichlorobenzene	1167572	ND	0.941	1.00	ug/L	127488990
1,2-Dichlorobenzene	1167572	ND	1.04	5.00	ug/L	127488990
1,2-DPH (as azobenzene)	1167572	ND	0.238	1.00	ug/L	127488990

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Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
1,3-Dichlorobenzene	1167572	ND	0.954	5.00	ug/L	127488990
1,4-Dichlorobenzene	1167572	ND	1.01	5.00	ug/L	127488990
2,4,5-Trichlorophenol	1167572	ND	0.961	5.00	ug/L	127488990
2,4,6-Trichlorophenol	1167572	ND	1.24	2.00	ug/L	127488990
2,4-Dichlorophenol	1167572	ND	0.222	1.00	ug/L	127488990
2,4-Dimethylphenol	1167572	ND	0.536	1.00	ug/L	127488990
2,4-Dinitrophenol	1167572	ND	1.34	2.00	ug/L	127488990
2,4-Dinitrotoluene	1167572	ND	1.35	2.00	ug/L	127488990
2,6-Dinitrotoluene	1167572	ND	1.29	2.00	ug/L	127488990
2-Chloronaphthalene	1167572	ND	0.150	1.00	ug/L	127488990
2-Chlorophenol	1167572	ND	0.275	1.00	ug/L	127488990
2-Methylphenol (o-Cresol)	1167572	ND	8.48	10.0	ug/L	127488990
2-Nitrophenol	1167572	ND	0.554	1.00	ug/L	127488990
3&4-Methylphenol (m&p-Cresol)	1167572	ND	7.78	8.00	ug/L	127488990
3,3'-Dichlorobenzidine	1167572	ND	1.39	2.00	ug/L	127488990
4,6-Dinitro-2-methylphenol	1167572	ND	1.15	2.00	ug/L	127488990
4-Bromophenyl phenyl ether	1167572	ND	0.772	1.00	ug/L	127488990
4-Chlorophenyl phenyl ethe	1167572	ND	0.202	1.00	ug/L	127488990
4-Nitrophenol	1167572	ND	0.789	1.00	ug/L	127488990
Acenaphthene	1167572	ND	0.177	1.00	ug/L	127488990
Acenaphthylene	1167572	ND	0.240	1.00	ug/L	127488990
Anthracene	1167572	ND	0.241	1.00	ug/L	127488990
Benzidine	1167572	ND	1.40	1.50	ug/L	127488990
Benzo(a)anthracene	1167572	ND	0.225	1.00	ug/L	127488990
Benzo(a)pyrene	1167572	ND	0.900	1.00	ug/L	127488990
Benzo(b)fluoranthene	1167572	ND	0.547	1.00	ug/L	127488990
Benzo(ghi)perylene	1167572	ND	0.881	1.00	ug/L	127488990
Benzo(k)fluoranthene	1167572	ND	0.252	1.00	ug/L	127488990
Benzyl Butyl phthalate	1167572	1.10	0.204	7.50	ug/L	127488990
Bis(2-chloroethoxy)methane	1167572	ND	0.277	1.00	ug/L	127488990
Bis(2-chloroethyl)ether	1167572	ND	0.348	1.00	ug/L	127488990
Bis(2-chloroisopropyl)ether	1167572	ND	0.738	1.00	ug/L	127488990
Bis(2-ethylhexyl)phthalate	1167572	ND	1.12	7.50	ug/L	127488990
Chrysene (Benzo(a)phenanthrene)	1167572	ND	0.289	1.00	ug/L	127488990
Dibenz(a,h)anthracene	1167572	ND	0.689	1.00	ug/L	127488990
Diethyl phthalate	1167572	ND	0.253	5.70	ug/L	127488990
Dimethyl phthalate	1167572	ND	0.540	4.80	ug/L	127488990
Di-n-butylphthalate	1167572	ND	0.978	7.50	ug/L	127488990
Di-n-octylphthalate	1167572	ND	1.92	2.00	ug/L	127488990
Fluoranthene(Benzo(j,k)fluorene)	1167572	ND	0.318	1.00	ug/L	127488990
Fluorene	1167572	ND	0.275	1.00	ug/L	127488990
Hexachlorobenzene	1167572	ND	0.871	1.00	ug/L	127488990
Hexachlorobutadiene	1167572	ND	1.03	1.03	ug/L	127488990
Hexachlorocyclopentadiene	1167572	ND	0.536	1.00	ug/L	127488990
Hexachloroethane	1167572	ND	1.05	2.00	ug/L	127488990

QUALITY CONTROL

APEA-A

Apex Companies Austin
Margeret Schell
12501 Hymeadow Drive
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Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Indeno(1,2,3-cd)pyrene	1167572	ND	0.596	1.00	ug/L	127488990
Isophorone	1167572	ND	0.429	1.00	ug/L	127488990
Naphthalene	1167572	ND	0.225	1.00	ug/L	127488990
Nitrobenzene	1167572	ND	0.271	1.00	ug/L	127488990
n-Nitrosodiethylamine	1167572	ND	0.747	1.00	ug/L	127488990
N-Nitrosodimethylamine	1167572	0.590	0.542	1.00	ug/L	127488990
n-Nitroso-di-n-butylamine	1167572	ND	0.210	1.00	ug/L	127488990
N-Nitrosodi-n-propylamine	1167572	ND	0.425	1.00	ug/L	127488990
N-Nitrosodiphenylamine (as DPA	1167572	ND	0.404	1.00	ug/L	127488990
p-Chloro-m-Cresol (4-Chloro-3-me	1167572	ND	0.588	1.00	ug/L	127488990
Pentachlorobenzene	1167572	ND	0.977	1.00	ug/L	127488990
Pentachlorophenol	1167572	ND	0.960	5.00	ug/L	127488990
Phenanthrene	1167572	ND	0.269	1.00	ug/L	127488990
Phenol	1167572	ND	0.332	1.00	ug/L	127488990
Pyrene	1167572	ND	0.291	1.00	ug/L	127488990
Pyridine	1167572	ND	1.35	1.35	ug/L	127488990

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*		*File*
1,2,4,5-Tetrachlorobenzene	56000	50000	ug/L	112	60.0 - 140		127488989
1,2,4-Trichlorobenzene	59900	50000	ug/L	120	61.0 - 130		127488989
1,2-Dichlorobenzene	54100	50000	ug/L	108	60.0 - 140		127488989
1,2-DPH (as azobenzene)	47500	50000	ug/L	95.0	60.0 - 140		127488989
1,3-Dichlorobenzene	49300	50000	ug/L	98.6	60.0 - 140		127488989
1,4-Dichlorobenzene	50700	50000	ug/L	101	60.0 - 140		127488989
2,4,5-Trichlorophenol	58800	50000	ug/L	118	69.0 - 130		127488989
2,4,6-Trichlorophenol	54500	50000	ug/L	109	69.0 - 130		127488989
2,4-Dichlorophenol	57200	50000	ug/L	114	64.0 - 130		127488989
2,4-Dimethylphenol	50100	50000	ug/L	100	58.0 - 130		127488989
2,4-Dinitrophenol	65400	50000	ug/L	131	39.0 - 173		127488989
2,4-Dinitrotoluene	55900	50000	ug/L	112	53.0 - 130		127488989
2,6-Dinitrotoluene	52900	50000	ug/L	106	68.0 - 137		127488989
2-Chloronaphthalene	58000	50000	ug/L	116	70.0 - 130		127488989
2-Chlorophenol	49800	50000	ug/L	99.6	55.0 - 130		127488989
2-Methylphenol (o-Cresol)	45400	50000	ug/L	90.8	60.0 - 140		127488989
2-Nitrophenol	64300	50000	ug/L	129	61.0 - 163		127488989
3&4-Methylphenol (m&p-Cresol)	57100	50000	ug/L	114	60.0 - 140		127488989
3,3'-Dichlorobenzidine	62700	50000	ug/L	125	18.0 - 213		127488989
4,6-Dinitro-2-methylphenol	66400	50000	ug/L	133	56.0 - 130	*	127488989
4-Bromophenyl phenyl ether	52400	50000	ug/L	105	70.0 - 130		127488989
4-Chlorophenyl phenyl ethe	57400	50000	ug/L	115	57.0 - 145		127488989
4-Nitrophenol	56500	50000	ug/L	113	35.0 - 135		127488989
Acenaphthene	47300	50000	ug/L	94.6	70.0 - 130		127488989
Acenaphthylene	49300	50000	ug/L	98.6	60.0 - 130		127488989
Anthracene	50000	50000	ug/L	100	58.0 - 130		127488989

QUALITY CONTROL

APEA-A

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Benzidine	23500	50000	ug/L	47.0	20.0 - 180	127488989
Benzo(a)anthracene	58200	50000	ug/L	116	42.0 - 133	127488989
Benzo(a)pyrene	55800	50000	ug/L	112	32.0 - 148	127488989
Benzo(b)fluoranthene	51700	50000	ug/L	103	42.0 - 140	127488989
Benzo(ghi)perylene	65500	50000	ug/L	131	13.0 - 195	127488989
Benzo(k)fluoranthene	54900	50000	ug/L	110	25.0 - 146	127488989
Benzyl Butyl phthalate	51900	50000	ug/L	104	43.0 - 140	127488989
Bis(2-chloroethoxy)methane	55400	50000	ug/L	111	52.0 - 164	127488989
Bis(2-chloroethyl)ether	64200	50000	ug/L	128	52.0 - 130	127488989
Bis(2-chloroisopropyl)ether	48400	50000	ug/L	96.8	63.0 - 139	127488989
Bis(2-ethylhexyl)phthalate	51600	50000	ug/L	103	43.0 - 137	127488989
Chrysene (Benzo(a)phenanthrene)	53200	50000	ug/L	106	44.0 - 140	127488989
Dibenz(a,h)anthracene	61600	50000	ug/L	123	13.0 - 200	127488989
Diethyl phthalate	51600	50000	ug/L	103	47.0 - 130	127488989
Dimethyl phthalate	50900	50000	ug/L	102	50.0 - 130	127488989
Di-n-butylphthalate	52000	50000	ug/L	104	52.0 - 130	127488989
Di-n-octylphthalate	41700	50000	ug/L	83.4	21.0 - 132	127488989
Fluoranthene(Benzo(j,k)fluorene)	59800	50000	ug/L	120	47.0 - 130	127488989
Fluorene	51100	50000	ug/L	102	70.0 - 130	127488989
Hexachlorobenzene	57700	50000	ug/L	115	38.0 - 142	127488989
Hexachlorobutadiene	60400	50000	ug/L	121	68.0 - 130	127488989
Hexachlorocyclopentadiene	41600	50000	ug/L	83.2	60.0 - 140	127488989
Hexachloroethane	49900	50000	ug/L	99.8	55.0 - 130	127488989
Indeno(1,2,3-cd)pyrene	63700	50000	ug/L	127	13.0 - 151	127488989
Isophorone	62300	50000	ug/L	125	52.0 - 180	127488989
Naphthalene	57600	50000	ug/L	115	70.0 - 130	127488989
Nitrobenzene	54200	50000	ug/L	108	54.0 - 158	127488989
n-Nitrosodiethylamine	49700	50000	ug/L	99.4	60.0 - 140	127488989
N-Nitrosodimethylamine	57400	50000	ug/L	115	60.0 - 140	127488989
n-Nitroso-di-n-butylamine	57400	50000	ug/L	115	60.0 - 140	127488989
N-Nitrosodi-n-propylamine	55300	50000	ug/L	111	59.0 - 170	127488989
N-Nitrosodiphenylamine (as DPA	51500	50000	ug/L	103	60.0 - 140	127488989
p-Chloro-m-Cresol (4-Chloro-3-me	58700	50000	ug/L	117	68.0 - 130	127488989
Pentachlorobenzene	48600	50000	ug/L	97.2	60.0 - 140	127488989
Pentachlorophenol	55600	50000	ug/L	111	42.0 - 152	127488989
Phenanthrene	56200	50000	ug/L	112	67.0 - 130	127488989
Phenol	51600	50000	ug/L	103	48.0 - 130	127488989
Pyrene	51100	50000	ug/L	102	70.0 - 130	127488989
Pyridine	42800	50000	ug/L	85.6	60.0 - 140	127488989

DFTPP

Parameter		*RefMass*	*Reading*	*%*	*Limits%*	*File*
DFTPP Mass 127	630516	198	112163	54.4	40.0 - 60.0	127488988
DFTPP Mass 197	630516	198	252	0.1	0 - 1.00	127488988
DFTPP Mass 198	630516	198	206347	100.0	100 - 100	127488988

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DFTPP

Parameter		*RefMass*	*Reading*	*%*	*Limits%*	*File*
DFTPP Mass 199	630516	198	13999	6.8	5.00 - 9.00	127488988
DFTPP Mass 275	630516	198	44707	21.7	10.0 - 30.0	127488988
DFTPP Mass 365	630516	198	6444	3.1	1.00 - 100	127488988
DFTPP Mass 441	630516	443	20592	77.8	0 - 100	127488988
DFTPP Mass 442	630516	198	138589	67.2	40.0 - 100	127488988
DFTPP Mass 443	630516	442	26469	19.1	17.0 - 23.0	127488988
DFTPP Mass 51	630516	198	63493	30.8	30.0 - 60.0	127488988
DFTPP Mass 68	630516	69.0	123	0.2	0 - 2.00	127488988
DFTPP Mass 69	630516	198	74915	36.3	0 - 100	127488988
DFTPP Mass 70	630516	69.0	381	0.5	0 - 2.00	127488988

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
1,2,4,5-Tetrachlorobenzene	1167572	15.2	14.5	25.0	27.5 - 85.5	60.8	58.0	ug/L	4.71	50.0
1,2,4-Trichlorobenzene	1167572	11.1	10.2	25.0	44.0 - 142	44.4	40.8 *	ug/L	8.45	50.0
1,2-Dichlorobenzene	1167572	11.6	10.4	25.0	23.0 - 81.8	46.4	41.6	ug/L	10.9	50.0
1,2-DPH (as azobenzene)	1167572	22.2	22.6	25.0	12.6 - 110	88.8	90.4	ug/L	1.79	50.0
1,3-Dichlorobenzene	1167572	11.4	10.2	25.0	21.1 - 80.5	45.6	40.8	ug/L	11.1	50.0
1,4-Dichlorobenzene	1167572	11.1	10.1	25.0	21.4 - 76.9	44.4	40.4	ug/L	9.43	50.0
2,4,5-Trichlorophenol	1167572	25.4	26.3	25.0	51.3 - 109	102	105	ug/L	2.90	50.0
2,4,6-Trichlorophenol	1167572	23.9	24.0	25.0	37.0 - 144	95.6	96.0	ug/L	0.418	58.0
2,4-Dichlorophenol	1167572	21.9	22.8	25.0	39.0 - 135	87.6	91.2	ug/L	4.03	50.0
2,4-Dimethylphenol	1167572	11.2	9.47	25.0	23.0 - 120	44.8	37.9	ug/L	16.7	68.0
2,4-Dinitrophenol	1167572	15.3	19.5	25.0	0.100 - 191	61.2	78.0	ug/L	24.1	132
2,4-Dinitrotoluene	1167572	22.2	24.2	25.0	39.0 - 139	88.8	96.8	ug/L	8.62	42.0
2,6-Dinitrotoluene	1167572	22.4	23.8	25.0	50.0 - 158	89.6	95.2	ug/L	6.06	48.0
2-Chloronaphthalene	1167572	15.5	14.1	25.0	60.0 - 120	62.0	56.4 *	ug/L	9.46	24.0
2-Chlorophenol	1167572	19.2	19.0	25.0	23.0 - 134	76.8	76.0	ug/L	1.05	61.0
2-Methylphenol (o-Cresol)	1167572	17.4	17.5	25.0	38.9 - 76.1	69.6	70.0	ug/L	0.573	50.0
2-Nitrophenol	1167572	21.2	21.5	25.0	29.0 - 182	84.8	86.0	ug/L	1.41	55.0
3&4-Methylphenol (m&p-Cresol)	1167572	17.1	17.0	25.0	33.0 - 70.4	68.4	68.0	ug/L	0.587	50.0
3,3'-Dichlorobenzidine	1167572	22.8	22.3	25.0	0.100 - 262	91.2	89.2	ug/L	2.22	108
4,6-Dinitro-2-methylphenol	1167572	20.9	25.4	25.0	0.100 - 181	83.6	102	ug/L	19.8	203
4-Bromophenyl phenyl ether	1167572	22.0	23.0	25.0	53.0 - 127	88.0	92.0	ug/L	4.44	43.0
4-Chlorophenyl phenyl ethe	1167572	23.8	23.9	25.0	25.0 - 158	95.2	95.6	ug/L	0.419	61.0
4-Nitrophenol	1167572	9.31	11.3	25.0	0.100 - 132	37.2	45.2	ug/L	19.4	131
Acenaphthene	1167572	16.3	16.8	25.0	47.0 - 145	65.2	67.2	ug/L	3.02	48.0
Acenaphthylene	1167572	16.4	16.8	25.0	33.0 - 145	65.6	67.2	ug/L	2.41	74.0
Anthracene	1167572	23.3	24.9	25.0	27.0 - 133	93.2	99.6	ug/L	6.64	66.0
Benzidine	1167572	1.85	0.790	25.0	0.100 - 36.9	7.40	3.16	ug/L	80.3	90.0
Benzo(a)anthracene	1167572	24.3	25.3	25.0	33.0 - 143	97.2	101	ug/L	3.83	53.0
Benzo(a)pyrene	1167572	23.3	24.3	25.0	17.0 - 163	93.2	97.2	ug/L	4.20	72.0
Benzo(b)fluoranthene	1167572	23.9	24.6	25.0	24.0 - 159	95.6	98.4	ug/L	2.89	71.0
Benzo(ghi)perylene	1167572	28.4	28.8	25.0	0.100 - 219	114	115	ug/L	0.873	97.0
Benzo(k)fluoranthene	1167572	24.6	25.8	25.0	11.0 - 162	98.4	103	ug/L	4.57	63.0

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Benzyl Butyl phthalate	1167572	22.8	23.6	25.0	0.100 - 152	91.2	94.4	ug/L	3.45	60.0
Bis(2-chloroethoxy)methane	1167572	20.6	20.8	25.0	33.0 - 184	82.4	83.2	ug/L	0.966	54.0
Bis(2-chloroethyl)ether	1167572	18.5	18.6	25.0	12.0 - 158	74.0	74.4	ug/L	0.539	108
Bis(2-chloroisopropyl)ether	1167572	16.7	15.8	25.0	36.0 - 166	66.8	63.2	ug/L	5.54	76.0
Bis(2-ethylhexyl)phthalate	1167572	23.1	23.3	25.0	8.00 - 158	92.4	93.2	ug/L	0.862	82.0
Chrysene (Benzo(a)phenanthrene)	1167572	23.9	24.5	25.0	17.0 - 168	95.6	98.0	ug/L	2.48	87.0
Dibenz(a,h)anthracene	1167572	27.4	28.2	25.0	0.100 - 227	110	113	ug/L	2.69	126
Diethyl phthalate	1167572	22.9	23.6	25.0	0.100 - 120	91.6	94.4	ug/L	3.01	100
Dimethyl phthalate	1167572	22.2	22.9	25.0	0.100 - 120	88.8	91.6	ug/L	3.10	183
Di-n-butylphthalate	1167572	25.6	26.0	25.0	1.00 - 120	102	104	ug/L	1.94	47.0
Di-n-octylphthalate	1167572	17.7	19.3	25.0	4.00 - 146	70.8	77.2	ug/L	8.65	69.0
Fluoranthene(Benzo(j,k)fluorene)	1167572	24.5	26.6	25.0	26.0 - 137	98.0	106	ug/L	7.84	66.0
Fluorene	1167572	20.5	21.4	25.0	59.0 - 121	82.0	85.6	ug/L	4.30	38.0
Hexachlorobenzene	1167572	27.6	27.4	25.0	0.100 - 152	110	110	ug/L	0	55.0
Hexachlorobutadiene	1167572	11.1	9.68	25.0	24.0 - 120	44.4	38.7	ug/L	13.7	62.0
Hexachlorocyclopentadiene	1167572	5.87	6.66	25.0	3.97 - 68.7	23.5	26.6	ug/L	12.4	50.0
Hexachloroethane	1167572	10.9	9.81	25.0	40.0 - 120	43.6	39.2 *	ug/L	10.6	52.0
Indeno(1,2,3-cd)pyrene	1167572	26.0	27.0	25.0	0.100 - 171	104	108	ug/L	3.77	99.0
Isophorone	1167572	20.7	20.7	25.0	21.0 - 196	82.8	82.8	ug/L	0	93.0
Naphthalene	1167572	13.1	12.8	25.0	21.0 - 133	52.4	51.2	ug/L	2.32	65.0
Nitrobenzene	1167572	19.4	18.7	25.0	35.0 - 180	77.6	74.8	ug/L	3.67	62.0
n-Nitrosodiethylamine	1167572	9.52	9.12	25.0	18.0 - 100	38.1	36.5	ug/L	4.29	50.0
N-Nitrosodimethylamine	1167572	14.4	15.0	25.0	30.2 - 74.9	57.6	60.0	ug/L	4.08	50.0
n-Nitroso-di-n-butylamine	1167572	20.3	21.3	25.0	48.4 - 98.5	81.2	85.2	ug/L	4.81	50.0
N-Nitrosodi-n-propylamine	1167572	23.1	22.3	25.0	0.100 - 230	92.4	89.2	ug/L	3.52	87.0
N-Nitrosodiphenylamine (as DPA	1167572	24.8	25.1	25.0	49.3 - 94.2	99.2 *	100 *	ug/L	0.803	50.0
p-Chloro-m-Cresol (4-Chloro-3-me	1167572	22.9	24.2	25.0	22.0 - 147	91.6	96.8	ug/L	5.52	70.0
Pentachlorobenzene	1167572	17.6	18.5	25.0	39.3 - 93.7	70.4	74.0	ug/L	4.99	50.0
Pentachlorophenol	1167572	22.1	25.8	25.0	14.0 - 176	88.4	103	ug/L	15.3	86.0
Phenanthrene	1167572	26.9	27.7	25.0	54.0 - 120	108	111	ug/L	2.74	39.0
Phenol	1167572	9.09	9.51	25.0	5.00 - 120	36.4	38.0	ug/L	4.30	64.0
Pyrene	1167572	23.8	24.9	25.0	52.0 - 120	95.2	99.6	ug/L	4.52	49.0
Pyridine	1167572	9.02	4.73	25.0	11.2 - 50.6	36.1	18.9	ug/L	62.5 *	50.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4,6-Tribromophenol	630534	CCV	59800	100000	ug/L	59.8	10.0 - 150	127488989
2-Fluorophenol-SURR	630534	CCV	61800	100000	ug/L	61.8	10.0 - 150	127488989
4-Terphenyl-d14-SURR	630534	CCV	44400	50000	ug/L	88.8	30.0 - 150	127488989
Nitrobenzene-d5-SURR	630534	CCV	51600	50000	ug/L	103	30.0 - 150	127488989
Phenol-d6-SURR	630534	CCV	63900	100000	ug/L	63.9	10.0 - 150	127488989
2,4,6-Tribromophenol	1167572	Blank	28.2	100	ug/L	28.2	10.0 - 150	127488990
2,4,6-Tribromophenol	1167572	LCS	41.8	100	ug/L	41.8	10.0 - 150	127488991
2,4,6-Tribromophenol	1167572	LCS Dup	44.8	100	ug/L	44.8	10.0 - 150	127488992
2-Fluorophenol-SURR	1167572	Blank	23300	100000	ug/L	23.3	10.0 - 150	127488990

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2-Fluorophenol-SURR	1167572	LCS	28000	100000	ug/L	28.0	10.0 - 150	127488991
2-Fluorophenol-SURR	1167572	LCS Dup	27200	100000	ug/L	27.2	10.0 - 150	127488992
4-Terphenyl-d14-SURR	1167572	Blank	41600	50000	ug/L	83.2	30.0 - 150	127488990
4-Terphenyl-d14-SURR	1167572	LCS	44300	50000	ug/L	88.6	30.0 - 150	127488991
4-Terphenyl-d14-SURR	1167572	LCS Dup	45100	50000	ug/L	90.2	30.0 - 150	127488992
Nitrobenzene-d5-SURR	1167572	Blank	30500	50000	ug/L	61.0	30.0 - 150	127488990
Nitrobenzene-d5-SURR	1167572	LCS	36300	50000	ug/L	72.6	30.0 - 150	127488991
Nitrobenzene-d5-SURR	1167572	LCS Dup	35700	50000	ug/L	71.4	30.0 - 150	127488992
Phenol-d6-SURR	1167572	Blank	14800	100000	ug/L	14.8	10.0 - 150	127488990
Phenol-d6-SURR	1167572	LCS	18400	100000	ug/L	18.4	10.0 - 150	127488991
Phenol-d6-SURR	1167572	LCS Dup	19300	100000	ug/L	19.3	10.0 - 150	127488992
2,4,6-Tribromophenol	2393856	Unknown	41.4	102	ug/L	40.6	10.0 - 150	127488993
2-Fluorophenol-SURR	2393856	Unknown	24.1	102	ug/L	23.6	10.0 - 150	127488993
4-Terphenyl-d14-SURR	2393856	Unknown	37.9	51.2	ug/L	74.0	30.0 - 150	127488993
Nitrobenzene-d5-SURR	2393856	Unknown	35.0	51.2	ug/L	68.4	30.0 - 150	127488993
Phenol-d6-SURR	2393856	Unknown	16.9	102	ug/L	16.6	10.0 - 150	127488993

Analytical Set 1169467 — EPA 608.3

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
PCB-1016	1140	1000	ug/L	114	80.0 - 115		127490254
PCB-1016	1180	1000	ug/L	118	80.0 - 115	*	127490266
PCB-1260	1110	1000	ug/L	111	80.0 - 115		127490254
PCB-1260	1230	1000	ug/L	123	80.0 - 115	*	127490266

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	2393856	Unknown	0.0711	0.100	ug/L	71.1	10.0 - 200	127490258
Tetrachloro-m-Xylene (Surr)	2393856	Unknown	0.0697	0.100	ug/L	69.7	10.0 - 200	127490258

Analytical Set 1169722 — TX 1001

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Tributyltin hydride	1168553	ND	0.005	0.007	ug/L	127494463

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Tributyltin hydride	46500	50000	ug/L	93.1	70.0 - 130	127494459

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Tributyltin hydride	1168553	202	189	500	0.100 - 211	40.4	37.8	ug/L	6.65	30.0

Analytical Set 1170028 — EPA 625.1

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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
2-Chlorophenol	2393609	19.1	17.9	ND	25.1	8.98 - 122	76.4	71.6	ug/L	6.49	30.0
2-Methylphenol (o-Cresol)	2393609	16.7	15.8	ND	25.1	0.100 - 107	66.8	63.2	ug/L	5.54	30.0
3&4-Methylphenol (m&p-Cresol)	2393609	16.4	14.9	ND	25.1	0.100 - 108	65.6	59.6	ug/L	9.58	30.0
Acenaphthene	2393609	15.7	15.7	ND	25.1	5.27 - 137	62.8	62.8	ug/L	0	30.0
Acenaphthylene	2393609	16.2	16.1	ND	25.1	16.2 - 123	64.8	64.4	ug/L	0.619	30.0
Anthracene	2393609	21.0	21.4	ND	25.1	17.1 - 130	84.0	85.6	ug/L	1.89	30.0
Benzo(a)anthracene	2393609	21.2	22.3	ND	25.1	32.8 - 118	84.8	89.2	ug/L	5.06	30.0
Benzyl Butyl phthalate	2393609	20.0	22.1	0.852	25.1	7.60 - 140	76.6	85.0	ug/L	10.4	30.0
Chrysene (Benzo(a)phenanthrene)	2393609	19.7	20.9	ND	25.1	28.2 - 122	78.8	83.6	ug/L	5.91	30.0
Diethyl phthalate	2393609	20.7	21.1	0.294	25.1	0.565 - 140	81.6	83.2	ug/L	1.94	30.0
Di-n-butylphthalate	2393609	22.7	23.8	ND	25.1	0.100 - 156	90.8	95.2	ug/L	4.73	30.0
Fluoranthene(Benzo(j,k)fluorene)	2393609	23.8	24.2	ND	25.1	13.3 - 135	95.2	96.8	ug/L	1.67	30.0
Fluorene	2393609	19.4	18.9	ND	25.1	32.7 - 120	77.6	75.6	ug/L	2.61	30.0
Naphthalene	2393609	12.2	14.4	ND	25.1	6.27 - 127	48.8	57.6	ug/L	16.5	30.0
Phenanthrene	2393609	23.3	23.9	ND	25.1	26.9 - 125	93.2	95.6	ug/L	2.54	30.0
Phenol	2393609	8.84	8.22	ND	25.1	0.100 - 122	35.4	32.9	ug/L	7.27	30.0
Pyrene	2393609	19.6	22.1	ND	25.1	0.100 - 173	78.4	88.4	ug/L	12.0	30.0

Analytical Set 1167646 — SM 2120 B-2011

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Color	1167646	ND	5.0	5.0	PtCo Units	127453948

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Color	2393683	20	20	PtCo Units	0	20

Analytical Set 1167651 — SM 4500-$SO_3^{=}$ B-2011/EPA 377.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Sulfite, Lab	1167651	ND	2.00	2.00	mg/L	127453980

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Sulfite, Lab	2393843	ND	ND	mg/L		20.0

Analytical Set 1167729 — SM 4500-$S2^{=}$ D-2011

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Sulfide	1167729	ND	0.020	0.020	mg/L	127455580

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Sulfide	2393220	0.0207	0.0224	mg/L	7.89	20.0
Sulfide	2393856	ND	ND	mg/L		20.0

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Sulfide	1167729	0.0803	0.0735	0.070	85.0 - 115	107	105	mg/L	8.84	20.0

Analytical Set 1167888 — SM 5540 C-2011

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
MBAS (Surfactant/Foaming Agents)	1167888	ND	0.200	0.200	mg/L	127458709

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
MBAS (Surfactant/Foaming Agents)	2394018	ND	ND	mg/L		20.0

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File
MBAS (Surfactant/Foaming Agents)	1167888	10.0	10.0	mg/L	100	85.0 - 115	127458710

Analytical Set 1168204 — SM 5220 D-2011

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chemical Oxygen Demand	1168204	ND	20.0	20.0	mg/L	127466338

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chemical Oxygen Demand	402	400	mg/L	100	90.0 - 110	127466339

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Chemical Oxygen Demand	2393856	ND	ND	mg/L		20.0
Chemical Oxygen Demand	2394168	263	269	mg/L	2.26	20.0

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File
Chemical Oxygen Demand	1168204	199	200	mg/L	99.5	90.0 - 110	127466340

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Chemical Oxygen Demand	2393856	237	ND	220	mg/L	108	80.0 - 120	127466343
Chemical Oxygen Demand	2394168	456	269	220	mg/L	85.0	80.0 - 120	127466355

Analytical Set 1168742 — SM 2320 B-2011

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Alkalinity (as CaCO3)	1168742	ND	1.00	1.00	mg/L	127477247

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Alkalinity (as CaCO3)	27.1	25.0	mg/L	108	90.0 - 110	127477246
Total Alkalinity (as CaCO3)	24.6	25.0	mg/L	98.4	90.0 - 110	127477260

QUALITY CONTROL

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Total Alkalinity (as CaCO3)	27.1	25.0	mg/L	108	90.0 - 110	127477273

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
Total Alkalinity (as CaCO3)	2393844	19.7	19.7	mg/L	0	20.0
Total Alkalinity (as CaCO3)	2394345	323	326	mg/L	0.924	20.0

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Total Alkalinity (as CaCO3)	24.6	25.0	mg/L	98.4	90.0 - 110	127477245

Mat. Spike

Parameter	*Sample*	*Spike*	*Unknown*	*Known*	*Units*	*Recovery %*	*Limits %*	*File*	
Total Alkalinity (as CaCO3)	2393844	42.4	19.7	25.0	mg/L	90.8	70.0 - 130	127477250	
Total Alkalinity (as CaCO3)	2394345	338	326	25.0	mg/L	48.0	70.0 - 130	127477263	*

* Out RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100% Recover% is Recovery Percent: result / known * 100%

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); LCS - Laboratory Control Sample (reagent water or other blank matrices that is spiked with a known quantity of target analyte(s) and carried through preparation and analytical procedures exactly like a sample; typically a mid-range concentration; verifies that bias and precision of the analytical process are within control limits; determines usability of the data.); CCB - Continuing Calibration Blank; CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); MSD - Matrix Spike Duplicate (replicate of the matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.); ICV - Initial Calibration Verification; AWRL/LOQ C - Ambient Water Reporting Limit/LOQ Check Std; LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); LDR - Linear Dynamic Range Standard; MRL Check - Minimum Reporting Limit Check Std; Surrogate - Surrogate (mimics the analyte of interest but is unlikely to be found in environmental samples; added to analytical samples for QC purposes. **ANSI/ASQC E4 1994 Ref #4 TRADE QA Resources Guide.); DFTPP - GC/MS Tuning Compound

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Austin, TX 78750

APEA-A
102

Lab Number 2393856
PO Number
Phone 512/503-8495

BT TPDES Permit Comp

☐ Hand Delivered by Client to Region or LAB

#1 Autosampler # 7241 Bottle # 001501
Sample poured Date: 3.27.25 Time: 0910
#2 Autosampler # 6358 Bottle # 001726
Sample poured Date: 3.27.25 Time: 0920
Matrix: Non-Potable Water

Sample Collection Start
Date: 3.26.25 Time: 0800
Sampler Printed Name: Greg Chapman
Sampler Affiliation: SPL
Sampler Signature: Greg Chapman

Sample Collection Stop
Date: 3.27.25 Time: 0700
Sampler Printed Name: Greg Chapman
Sampler Affiliation: SPL
Sampler Signature: Greg Chapman

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

1 On Site Testing

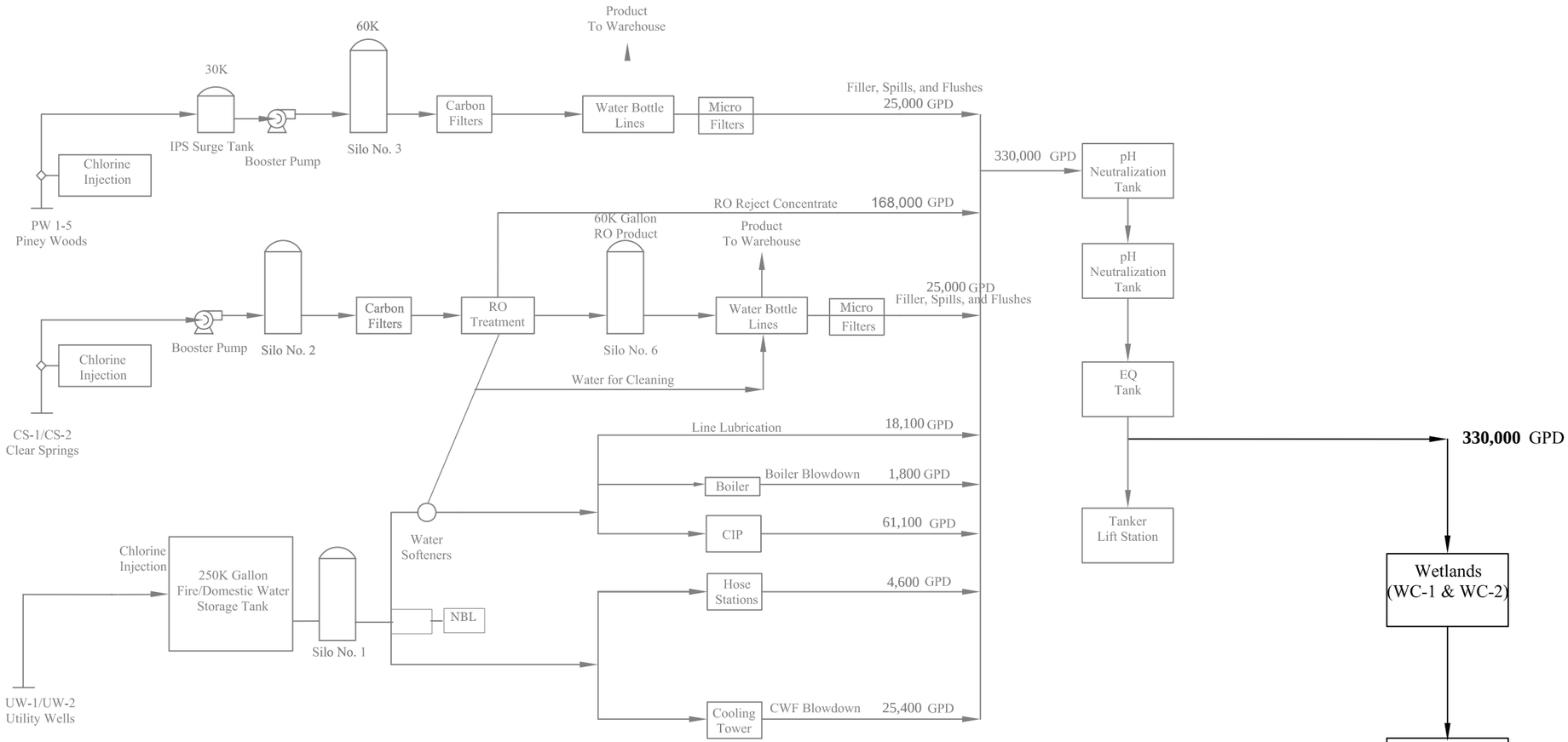
NELAC Short Hold	Cr6F	Hex Cr, Field Preservation	SM 3500-Cr B-2011 CAS:18540-29-9 (1.00 days)

Hex Cr, Field Preservation

Collected By Date 3.27.25 Time 0910 Analyzed By Date 3.27.25 Time 0911

9 Amber Glass Qt w/Teflon lined lid

NELAC	!HER	Herbicides by GC	EPA 615 (7.00 days)
NELAC	!PCB	Polychlorinated Biphenyls	EPA 608.3 (7.00 days)
NELAC	!PPR	TTO Pesticides	EPA 608.3 (7.00 days)
	#MDR	For use with !PPR only	EPA 617 (7.00 days)
	HXPE	Hexachlorophene Expansion	EPA 604.1 CAS:70-30-4 (7.00 days)



NOTES

DRAFT

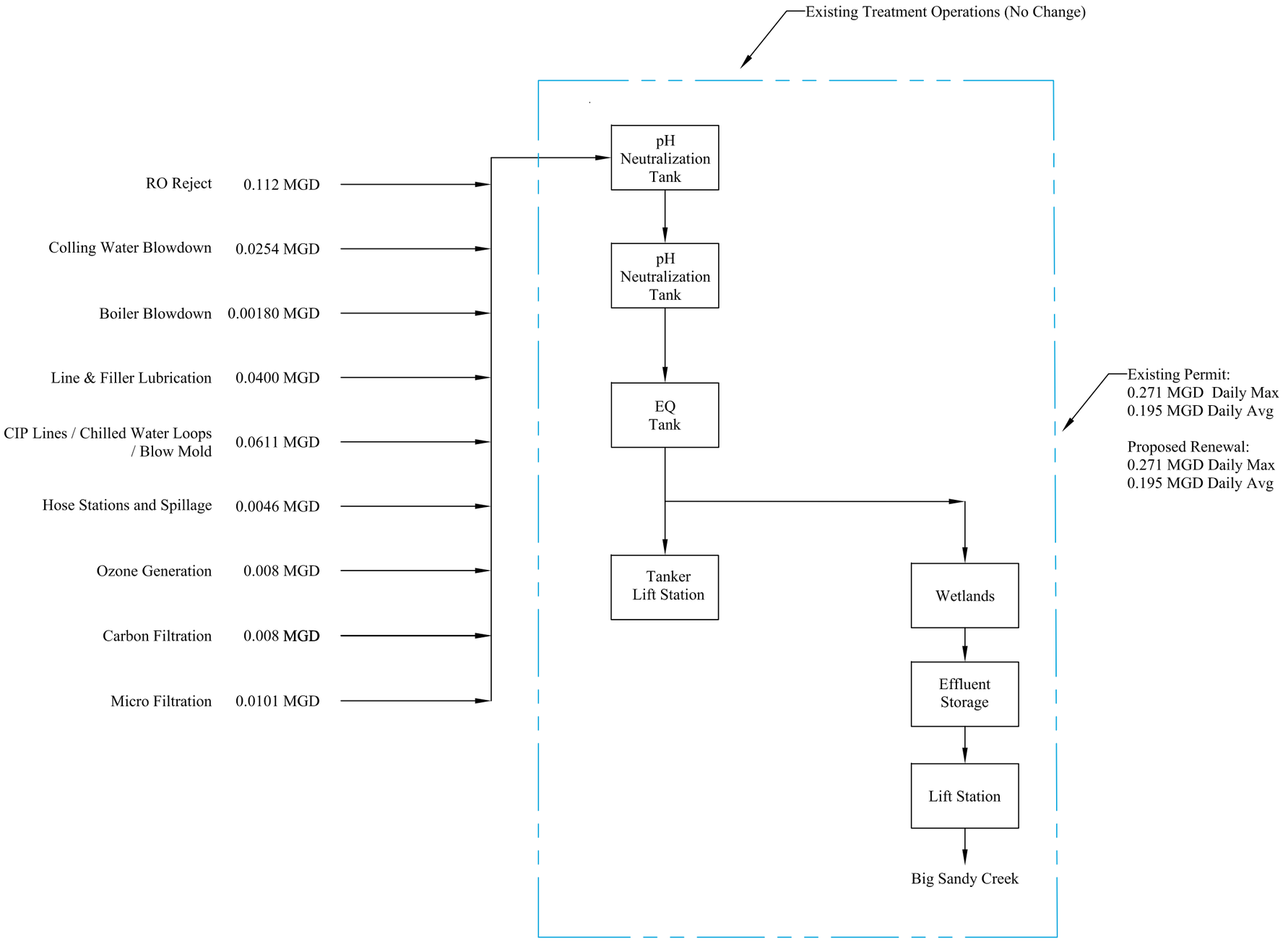
APEX COMPANIES, LLC
12501 Hymeadow Dr #1G
Austin, TX 7875
(512) 250-2600
www.apexcos.com

WASTEWATER SOURCE DIAGRAM

WOOD COUNTY BOTTLING PLANT

Primo Brands
Wood County, Texas

DESIGNED BY:	DETAILED BY:	CHECKED BY:
Apex-TITAN	GS	MS
FILE NAME: Austin\PROJECTS\A-C\Blue Triton\Attachment C - Figures		
DATE: April 2025	PROJECT NO.: BLU062-0206725-24013519	PLOT SCALE: N.T.S.
DRAWING NO.: ---	REVISION: 0	FIGURE: --



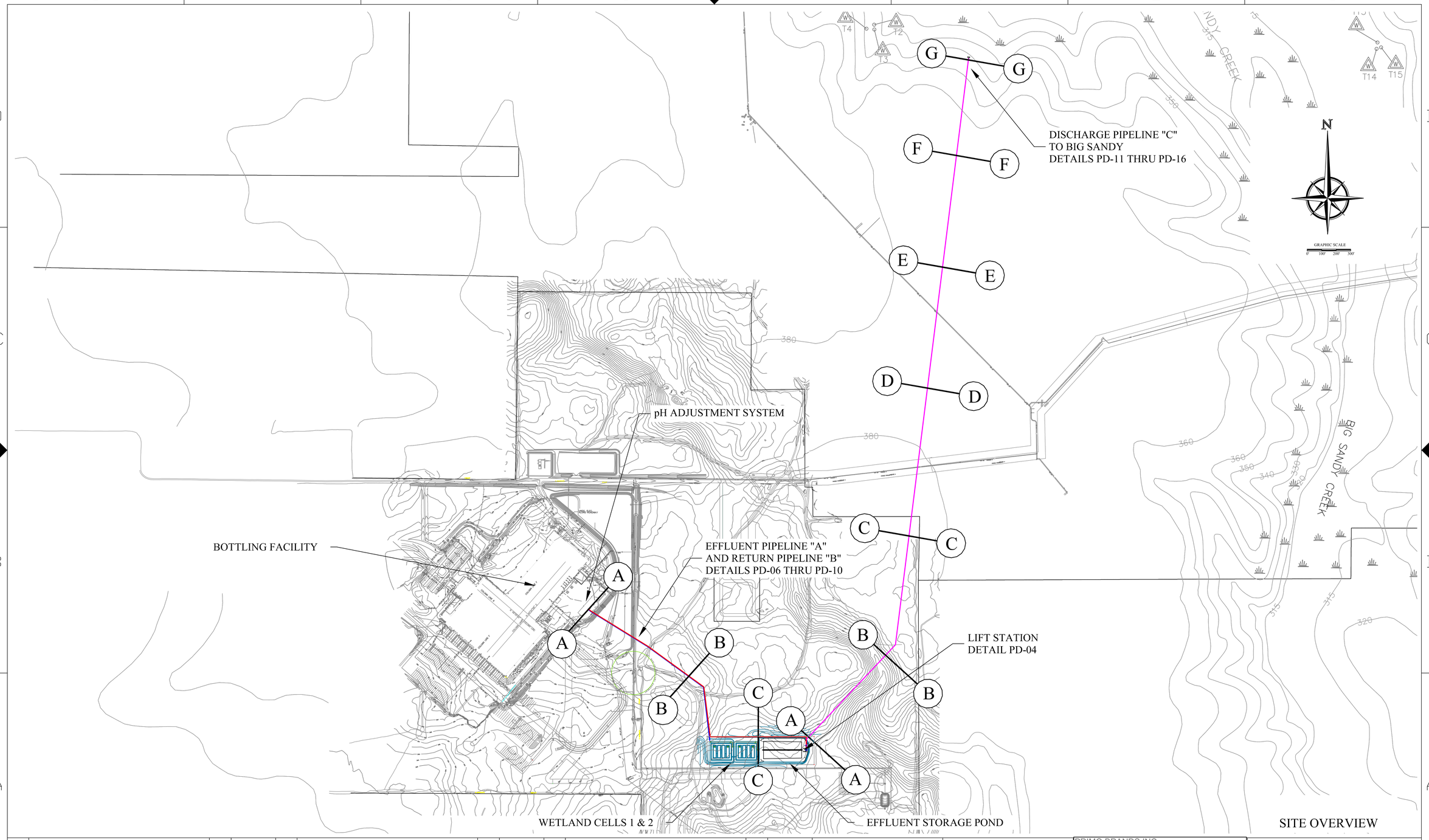
NOTES

Apex Companies, LLC
12400 Ford Road, Suite 401
Dallas, Texas 75234
Phone: (469) 365-1100 • Fax: (469) 365-1199
PG License No. 50296 PE License No. F14073
www.apexcos.com

WASTEWATER SOURCE DIAGRAM

TPDES Permit Renewal Application
Primo Brands Inc
Wood County Bottling Plant
Wood County, Texas

DESIGNED BY:	DETAILED BY:	CHECKED BY:
Apex-TITAN	RW	MM
FILE NAME: 06-176\TPDES Renewal...\Figures		
DATE: May 2025	PROJECT NO.: 06-176	PLOT SCALE: N.T.S.
DRAWING NO.: ---	REVISION: 0	FIGURE: --



SITE OVERVIEW

REV.	REVISION DESCRIPTION	DRN.	REV. DATE
G	INFORMATION ONLY – TPDES RENEWAL APPLICATION	JBB	01–2011
F	AS BUILT	JBB	08–29–08
E	ISSUED FOR CONSTRUCTION	JBB	12–21–07
D	ISSUED FOR FINAL REVIEW	JBB	10/23/07
C	ISSUED FOR PERMITTING	JBB	10–16–06
B	ADDED INSPECTION PORTAL	JBB	09–05–06
A	DRAFT – INITIAL RELEASE	JBB	08–11–06

DRAWN: JBB | DESIGN FIRM CONTROL NO.: TITAN

PRIMO BRANDS INC
WOOD COUNTY BOTTLING PLANT
HAWKINS, WOOD COUNTY, TEXAS

UTILITY SYSTEMS
SITE OVERVIEW
GENERAL REFERENCE

DATE: 08–16–07 | D.M.: S. LOLLING | SCALE: 1" = 300'

SIZE: D | SHEET NO.: WF07–GR–05 | REV. NO.: G