



# Technical Package Cover Page

## **This file contains the following documents:**

1. Summary of application (in plain language)
  - English
  - Alternative Language (Spanish)
2. First notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
  - English
  - Alternative Language (Spanish)
3. Second notice (NAPD-Notice of Preliminary Decision)
  - English
  - Alternative Language (Spanish)
4. Application materials \*
5. Draft permit \*
6. Technical summary or fact sheet \*

# Plain Language Summary Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

This template is a guide to assist applicant's in developing a plain language summary as required by [30 Texas Administrative Code Chapter 39 Subchapter H](#). Applicant's may modify the template as necessary to accurately describe their 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 the applicant will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

Fill in the blanks 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.

If you are subject to the alternative language notice requirements in [30 Texas Administrative Code §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 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.*

Holiday Beach Water Supply Corporation (CN6000654644) operates Holiday Beach WSC (RN103014965). a Reverse Osmosis potable water treatment plant. The facility is located at 5 St. Charles Loop East in Holiday Beach , in Rockport, Aransas County, Texas 78382.

Renewal to discharge wastewater from Reverse Osmosis potable water treatment plant to an unnamed tidal ditch; thence to tidal flats; thence to the Copano Bay portion of Copano Bay/Port Bay/Mission Bay in Segment No. 2472 of the Bays and Estuaries.

Discharges from the facility are expected to contain Total Dissolved Solids(TDS) and Chlorides. Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0. The Reverse Osmosis concentrate (Reject) water is treated by discharging to a sump tank at the water plant then pumped through a 2"



pipe and discharged via Outfall 1 to an unnamed tidal ditch; thence to tidal flats; thence to the Copano Bay portion of Copano Bay/Port Bay/Mission Bay in Segment No. 2472 of the Bays and Estuaries.

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



## NOTICE OF RECEIPT OF APPLICATION AND INTENT TO OBTAIN WATER QUALITY PERMIT RENEWAL

PERMIT NO. WQ0004290000

**APPLICATION.** Holiday Beach Water Supply Corporation, 2611 Highway 35 North, Rockport, Texas 78382, which owns a potable water treatment plant, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004290000 (EPA I.D. No. TX0123871) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 120,000 gallons per day. The water treatment facility is located at 5 Saint Charles Loop East, near the city of Rockport, in Aransas County, Texas 78382. The discharge route is from the plant site to an unnamed tidal ditch; thence to tidal flats; thence to the Copano Bay portion of Copano Bay/Port Bay/Mission Bay. TCEQ received this application on July 11, 2024. The permit application will be available for viewing and copying at Aransas County Clerk's Office, main entrance bulletin board, 2840 Highway 35 North, Rockport, in Aransas 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=-96.9943,28.16327&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.**

**TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.**

**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](http://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](http://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 Holiday Beach Water Supply Corporation at the address stated above or by calling Mr. Vernon Hale, Operator/Manager, at 361-205-3184.

Issuance Date: August 2, 2024

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



## NOTICE OF APPLICATION AND PRELIMINARY DECISION FOR TPDES PERMIT FOR INDUSTRIAL WASTEWATER

### RENEWAL

**Permit No. WQ0004290000**

**APPLICATION AND PRELIMINARY DECISION.** Holiday Beach Water Supply Corporation, 2611 Highway 35 North, Rockport, Texas 78382, which operates Holiday Beach Water Supply Corporation WTP, a portable water treatment plant, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004290000, which authorizes the discharge of water treatment wastes at a daily average flow not to exceed 120,000 gallons per day via Outfall 001. The TCEQ received this application on July 11, 2024.

The facility is located at 5 Saint Charles Loop East, near the City of Rockport, Aransas County, Texas 78382. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.9943,28.16327&level=18>

The effluent is discharged to an unnamed tidal ditch, thence to tidal flats, thence to Copano Bay portion of Copano Bay/Port Bay/Mission Bay in Segment No. 2472 of the Bays and Estuaries. The unclassified receiving water uses are high aquatic life use for the unnamed tidal ditch and exceptional aquatic life use for Tidal Flats. The designated uses for Segment No. 2472 are primary contact recreation, exceptional aquatic life use, and oyster waters.

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at Aransas County Clerk's Office, main entrance bulletin board, 2840 Highway 35 North, Rockport, in Aransas County, Texas. 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>

**PUBLIC COMMENT / PUBLIC MEETING.** You may submit public comments or request a public meeting about this application. The purpose of a public meeting is to provide the opportunity to submit written or oral comment or to ask questions about the application. Generally, the 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 public comments, the Executive Director will consider the comments and prepare a response to all relevant and material, or significant public comments. **The response to comments, along with the Executive Director's decision on the application, will be mailed to everyone who submitted public comments or who requested to be on a mailing list for this application. If comments are received, the mailing will also provide instructions for requesting a contested case hearing or reconsideration of the Executive Director's decision.** A contested case hearing is a legal proceeding similar to a civil trial in a 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. TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.**

**EXECUTIVE DIRECTOR ACTION.** The Executive Director may issue final approval of the application unless a timely contested case hearing request or a timely request for reconsideration is filed. If a timely hearing request or request for reconsideration is filed, the Executive Director will not issue final approval of the permit and will forward the application and requests to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

**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 added to: (1) the permanent list for a specific applicant name and permit number; and (2) the mailing list for a specific county. If you wish to be placed on the permanent and the county mailing list, clearly specify which list(s) and send your request to TCEQ Office of the Chief Clerk at the address below.

**All written public comments and public meeting requests must be submitted to the Office of the Chief Clerk, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 or electronically at <https://www.tceq.texas.gov/goto/comment> within 30 days from the date of newspaper publication of this notice.**

**INFORMATION AVAILABLE ONLINE.** For details about the status of the application, visit the Commissioners' Integrated Database at <https://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.** Public comments and requests must be submitted either electronically at <https://www.tceq.texas.gov/goto/comment>, 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 <https://www.tceq.texas.gov/agency/decisions/participation/permitting-participation>. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Holiday Beach Water Supply Corporation at the address stated above or by calling Ms. Janet Blandford at 361-729-0538.

Issued: July 1, 2025



TEXAS COMMISSION ON ENVIRONMENTAL  
QUALITY

P.O. Box 13087  
Austin, Texas 78711-3087

TPDES PERMIT NO.  
WQ0004290000  
*[For TCEQ office use only -  
EPA I.D. No. TX0123871]*

This renewal replaces TPDES Permit  
No. WQ0004290000, issued on  
March 17, 2020.

PERMIT TO DISCHARGE WASTES  
under provisions of  
Section 402 of the Clean Water Act  
and Chapter 26 of the Texas Water Code

Holiday Beach Water Supply Corporation

whose mailing address is

2611 Highway 35 North  
Rockport, Texas 78382

is authorized to treat and discharge wastes from Holiday Beach WTP, a portable water treatment plant (SIC 4941)

located at 5 Saint Charles Loop East, near the City of Rockport, Aransas County, Texas 78382

to an unnamed tidal ditch, thence to tidal flats, thence to the Copano Bay portion of Copano Bay/Port Bay/Mission Bay in Segment No. 2472 of the Bays and Estuaries

only according to effluent limitations, monitoring requirements, and other conditions set forth in this permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ), the laws of the State of Texas, and other orders of the TCEQ. The issuance of this permit does not grant to the permittee the right to use private or public property for conveyance of wastewater along the discharge route described in this permit. This includes, but is not limited to, property belonging to any individual, partnership, corporation, or other entity. Neither does this permit authorize any invasion of personal rights nor any violation of federal, state, or local laws or regulations. It is the responsibility of the permittee to acquire property rights as may be necessary to use the discharge route.

This permit shall expire at midnight, five years from the date of permit issuance.

ISSUED DATE:

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For the Commission



EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOutfall Number 001

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge water treatment wastes<sup>1</sup> subject to the following effluent limitations:

The daily average flow of effluent shall not exceed 0.12 million gallons per day (MGD). The daily maximum flow shall not exceed 0.12 MGD.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average mg/L	Daily Maximum mg/L	Single Grab mg/L	Report Daily Average and Daily Maximum Measurement Frequency	Sample Type
Flow	0.12 MGD	0.12 MGD	N/A	Continuous	Record
Total Dissolved Solids	N/A	Report	N/A	1/quarter	Composite
Chloride	N/A	Report	N/A	1/quarter	Composite

2. The pH must not be less than 6.0 standard units nor greater than 9.0 standard units and must be monitored 1/week by grab sample.
3. There must be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
4. Effluent monitoring samples must be taken at the following location: At Outfall 001, prior to water treatment wastes being discharged to the tidal ditch and prior to commingling with any other waters.

<sup>1</sup> The term *water treatment wastes* includes but is not limited to: cold lime water treatment wastes, demineralizer backwash, filter backwash, ion exchange water treatment system wastes, membrane regeneration wastes, and reverse osmosis reject water.

**DEFINITIONS AND STANDARD PERMIT CONDITIONS**

As required by Title 30 Texas Administrative Code (TAC) Chapter 305, certain regulations appear as standard conditions in waste discharge permits. 30 TAC §§305.121 - 305.129 (relating to Permit Characteristics and Conditions) as promulgated under the Texas Water Code (TWC) §§5.103 and 5.105, and the Texas Health and Safety Code (THSC) §§361.017 and 361.024(a), establish the characteristics and standards for waste discharge permits, including sewage sludge, and those sections of 40 Code of Federal Regulations (CFR) Part 122 adopted by reference by the Commission. The following text includes these conditions and incorporates them into this permit. All definitions in Texas Water Code §26.001 and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

**1. Flow Measurements**

- a. Annual average flow - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder, and limited to major domestic wastewater discharge facilities with a one million gallons per day or greater permitted flow.
- b. Daily average flow - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.
- c. Daily maximum flow - the highest total flow for any 24-hour period in a calendar month.
- d. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.
- e. 2-hour peak flow (domestic wastewater treatment plants) - the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.
- f. Maximum 2-hour peak flow (domestic wastewater treatment plants) - the highest 2-hour peak flow for any 24-hour period in a calendar month.

**2. Concentration Measurements**

- a. Daily average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.
  - i. For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.
  - ii. For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.
- b. 7-day average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.
- c. Daily maximum concentration - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.
- d. Daily discharge - the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the "daily discharge" is calculated as the total

mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the “daily discharge” is calculated as the average measurement of the pollutant over the sampling day.

The “daily discharge” determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the “daily discharge” determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that day.

- e. Bacteria concentration (Fecal coliform, *E. coli*, or Enterococci) – the number of colonies of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the  $n$ th root of the product of all measurements made in a calendar month, where  $n$  equals the number of measurements made; or computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substitute value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.
- f. Daily average loading (lbs/day) - the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as  $(\text{Flow, MGD} \times \text{Concentration, mg/L} \times 8.34)$ .
- g. Daily maximum loading (lbs/day) - the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.

### 3. Sample Type

- a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC §319.9(a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC §319.9(c).
  - b. Grab sample - an individual sample collected in less than 15 minutes.
- 4. Treatment Facility (facility) - wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.
  - 5. The term “sewage sludge” is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids that have not been classified as hazardous waste separated from wastewater by unit processes.
  - 6. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

## MONITORING AND REPORTING REQUIREMENTS

### 1. Self-Reporting

Monitoring results shall be provided at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling and reporting in accordance with 30 TAC §§319.4 - 319.12. Unless otherwise specified, effluent monitoring data shall be submitted each month, to the Enforcement Division (MC 224), by the 20th day of the following month for each discharge that is described by this permit whether or not a discharge is made for that month. Monitoring results must be submitted online using the NetDMR reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. Monitoring results must be signed and certified as required by Monitoring and Reporting Requirements No. 10.

As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Clean Water Act; TWC Chapters 26, 27, and 28; and THSC Chapter 361, including but not limited to knowingly making any false statement, representation, or certification on any report, record, or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, or falsifying, tampering with or knowingly rendering inaccurate any monitoring device or method required by this permit or violating any other requirement imposed by state or federal regulations.

## 2. Test Procedures

- a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§319.11 - 319.12. Measurements, tests, and calculations shall be accurately accomplished in a representative manner.
- b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

## 3. Records of Results

- a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.
- b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR §264.73(b)(9) shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, application or certification. This period shall be extended at the request of the Executive Director.
- c. Records of monitoring activities shall include the following:
  - i. date, time, and place of sample or measurement;
  - ii. identity of individual who collected the sample or made the measurement;
  - iii. date and time of analysis;
  - iv. identity of the individual and laboratory who performed the analysis;
  - v. the technique or method of analysis; and
  - vi. the results of the analysis or measurement and quality assurance/quality control records.

The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that may be instituted against the permittee.

## 4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in the calculation and reporting of the values submitted on the approved self-report form. Increased frequency of sampling shall be indicated on the self-report form.

## 5. Calibration of Instruments

All automatic flow measuring or recording devices and all totalizing meters for measuring flows shall be accurately calibrated by a trained person at plant start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually unless authorized by the Executive Director for a longer period. Such person shall verify in writing that the device is operating properly and giving accurate results. Copies of the verification shall be retained at the facility site or shall be readily available for review by a TCEQ representative for a period of three years.

## 6. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the regional office and the Enforcement Division (MC 224).

## 7. Noncompliance Notification

- a. In accordance with 30 TAC §305.125(9) any noncompliance that may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Report of such information shall be provided orally or by facsimile transmission (FAX) to the regional office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the regional office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. For Publicly Owned Treatment Works (POTWs), effective September 1, 2020, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.
- b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:
  - i. unauthorized discharges as defined in Permit Condition 2(g).
  - ii. any unanticipated bypass that exceeds any effluent limitation in the permit.
  - iii. violation of a permitted maximum daily discharge limitation for pollutants listed specifically in the Other Requirements section of an Industrial TPDES permit.
- c. In addition to the above, any effluent violation that deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the regional office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.
- d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible. For effluent limitation violations, noncompliances shall be reported on the approved self-report form.

8. In accordance with the procedures described in 30 TAC §§35.301 - 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.

## 9. Changes in Discharges of Toxic Substances

All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the regional office, orally or by facsimile transmission within 24 hours, and both the regional office and the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:

- a. That any activity has occurred or will occur that would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) that is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
  - i. one hundred micrograms per liter (100 µg/L);
  - ii. two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
  - iii. five (5) times the maximum concentration value reported for that pollutant in the permit application; or
  - iv. the level established by the TCEQ.

- b. That any activity has occurred or will occur that would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
  - i. five hundred micrograms per liter (500 µg/L);
  - ii. one milligram per liter (1 mg/L) for antimony;
  - iii. ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
  - iv. the level established by the TCEQ.

#### 10. Signatories to Reports

All reports and other information requested by the Executive Director shall be signed by the person and in the manner required by 30 TAC §305.128 (relating to Signatories to Reports).

#### 11. All POTWs must provide adequate notice to the Executive Director of the following:

- a. any new introduction of pollutants into the POTW from an indirect discharger that would be subject to CWA §301 or §306 if it were directly discharging those pollutants;
- b. any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit; and
- c. for the purpose of this paragraph, adequate notice shall include information on:
  - i. the quality and quantity of effluent introduced into the POTW; and
  - ii. any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

### PERMIT CONDITIONS

#### 1. General

- a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.
- b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:
  - i. violation of any terms or conditions of this permit;
  - ii. obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
  - iii. a change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending, or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

#### 2. Compliance

- a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.
- b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment,

revocation, or suspension, or for denial of a permit renewal application or an application for a permit for another facility.

- c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
- d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation that has a reasonable likelihood of adversely affecting human health or the environment.
- e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.
- f. A permit may be amended, suspended and reissued, or revoked for cause in accordance with 30 TAC §§305.62 and 305.66 and TWC §7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Other Requirements section of this permit.
- h. In accordance with 30 TAC §305.535(a), the permittee may allow any bypass to occur from a TPDES permitted facility that does not cause permitted effluent limitations to be exceeded or an unauthorized discharge to occur, but only if the bypass is also for essential maintenance to assure efficient operation.
- i. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under Texas Water Code §§7.051 - 7.075 (relating to Administrative Penalties), 7.101 - 7.111 (relating to Civil Penalties), and 7.141 - 7.202 (relating to Criminal Offenses and Penalties) for violations including, but not limited to, negligently or knowingly violating the federal CWA §§301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under the CWA §402, or any requirement imposed in a pretreatment program approved under the CWA §§402(a)(3) or 402(b)(8).

### 3. Inspections and Entry

- a. Inspection and entry shall be allowed as prescribed in the TWC Chapters 26, 27, and 28, and THSC Chapter 361.
- b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit, or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in TWC §7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

#### 4. Permit Amendment or Renewal

- a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:
  - i. the alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in accordance with 30 TAC §305.534 (relating to New Sources and New Dischargers); or
  - ii. the alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9; or
  - iii. the alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
- b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.
- c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.
- d. Prior to accepting or generating wastes that are not described in the permit application or that would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.
- e. In accordance with the TWC §26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.
- f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA §307(a) for a toxic pollutant that is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA §307(a) for toxic pollutants within the time provided in the regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

#### 5. Permit Transfer

- a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.
- b. A permit may be transferred only according to the provisions of 30 TAC §305.64 (relating to Transfer of Permits) and 30 TAC §50.133 (relating to Executive Director Action on Application or WQMP update).



**6. Relationship to Hazardous Waste Activities**

This permit does not authorize any activity of hazardous waste storage, processing, or disposal that requires a permit or other authorization pursuant to the Texas Health and Safety Code.

**7. Relationship to Water Rights**

Disposal of treated effluent by any means other than discharge directly to water in the state must be specifically authorized in this permit and may require a permit pursuant to Texas Water Code Chapter 11.

**8. Property Rights**

A permit does not convey any property rights of any sort, or any exclusive privilege.

**9. Permit Enforceability**

The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

**10. Relationship to Permit Application**

The application pursuant to which the permit has been issued is incorporated herein; provided, however, that in the event of a conflict between the provisions of this permit and the application, the provisions of the permit shall control.

**11. Notice of Bankruptcy.**

- a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:
  - i. the permittee;
  - ii. an entity (as that term is defined in 11 USC, §101(15)) controlling the permittee or listing the permit or permittee as property of the estate; or
  - iii. an affiliate (as that term is defined in 11 USC, §101(2)) of the permittee.
- b. This notification must indicate:
  - i. the name of the permittee;
  - ii. the permit number(s);
  - iii. the bankruptcy court in which the petition for bankruptcy was filed; and
  - iv. the date of filing of the petition.

**OPERATIONAL REQUIREMENTS**

1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.
2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge use and disposal and 30 TAC §§319.21 - 319.29 concerning the discharge of certain hazardous metals.

3. Domestic wastewater treatment facilities shall comply with the following provisions:
  - a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.
  - b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment or other treatment unit regulated by this permit.
4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, or retention of inadequately treated wastewater.
5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.
6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under TWC §7.302(b)(6).
7. Documentation

For all written notifications to the Commission required of the permittee by this permit, the permittee shall keep and make available a copy of each such notification under the same conditions as self-monitoring data are required to be kept and made available. Except for information required for TPDES permit applications, effluent data, including effluent data in permits, draft permits and permit applications, and other information specified as not confidential in 30 TAC §1.5(d), any information submitted pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted in the manner prescribed in the application form or by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, information may be made available to the public without further notice. If the Commission or Executive Director agrees with the designation of confidentiality, the TCEQ will not provide the information for public inspection unless required by the Texas Attorney General or a court pursuant to an open records request. If the Executive Director does not agree with the designation of confidentiality, the person submitting the information will be notified.

8. Facilities that generate domestic wastewater shall comply with the following provisions; domestic wastewater treatment facilities at permitted industrial sites are excluded.
  - a. Whenever flow measurements for any domestic sewage treatment facility reach 75% of the permitted daily average or annual average flow for three consecutive months, the permittee must initiate engineering and financial planning for expansion or upgrading of the domestic wastewater treatment or collection facilities. Whenever the flow reaches 90% of the permitted daily average or annual average flow for three consecutive months, the permittee shall obtain necessary authorization from the Commission to commence construction of the necessary additional treatment or collection facilities. In the case of a domestic wastewater treatment facility that reaches 75% of the permitted daily average or annual average flow for three consecutive months, and the planned population to be served or the quantity of waste produced is not expected to exceed the design limitations of the treatment facility, the permittee shall submit an engineering report supporting this claim to the Executive Director of the Commission.

If in the judgment of the Executive Director the population to be served will not cause permit noncompliance, then the requirement of this section may be waived. To be effective, any waiver must be in writing and signed by the Director of the Enforcement Division (MC 219) of the Commission, and such waiver of these requirements will be reviewed upon expiration of the existing permit; however, any such waiver shall not be interpreted as condoning or excusing any violation of any permit parameter.

- b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission, and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.
  - c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.
9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.
10. For Publicly Owned Treatment Works (POTWs), the 30-day average (or monthly average) percent removal for BOD and TSS shall not be less than 85%, unless otherwise authorized by this permit.
11. Facilities that generate industrial solid waste as defined in 30 TAC §335.1 shall comply with these provisions:
- a. Any solid waste, as defined in 30 TAC §335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.
  - b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.
  - c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC §335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.
  - d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Remediation Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC §335.5.
  - e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.
  - f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC Chapter 335 and must include the following, as it pertains to wastewater treatment and discharge:
    - i. volume of waste and date(s) generated from treatment process;
    - ii. volume of waste disposed of on-site or shipped off-site;
    - iii. date(s) of disposal;

- iv. identity of hauler or transporter;
- v. location of disposal site; and
- vi. method of final disposal.

The above records shall be maintained on a monthly basis. The records shall be retained at the facility site, or shall be readily available for review by authorized representatives of the TCEQ for at least five years.

12. For industrial facilities to which the requirements of 30 TAC Chapter 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with THSC Code Chapter 361.

TCEQ Revision 05/2021

**OTHER REQUIREMENTS**

1. The executive director reviewed this action and found that the action is consistent with the applicable Texas Coastal Management Program (CMP) goals and policies and will not adversely affect any applicable coastal natural resource areas identified by the CMP.
2. Violations of daily maximum limitations for the following pollutants shall be reported orally or by facsimile to TCEQ Region 14 within 24 hours from the time the permittee becomes aware of the violation, followed by a written report within five working days to TCEQ Region 14 and Compliance Monitoring Team (MC 224): None.
3. Monitoring results must be provided at the intervals specified in the permit. For pollutants which are monitored four times per year, the first effluent report must be submitted three months after the date of permit issuance and subsequent reports every three months thereafter.
4. The chronic aquatic life mixing zone for Outfall 001 is defined as a volume of water within a radius of 5 feet from the point of discharge. Chronic toxic criteria apply at the edge of the chronic aquatic life mixing zone.
5. There shall be no discharge of domestic wastewater. Domestic wastewater is not generated on-site.
6. The width of the unnamed tidal ditch at the point of discharge is approximately 10 feet. The Zone of Initial Dilution (ZID) is defined as a volume within a radius of 1.25 feet from the point of discharge. The human health mixing zone is defined as a volume within a radius of 10 feet from the point of discharge.

STATEMENT OF BASIS/TECHNICAL SUMMARY AND  
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

**DESCRIPTION OF APPLICATION**

Applicant: Holiday Beach Water Supply Corporation; Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004290000 (EPA I.D. No. TX0123871)

Regulated activity: Industrial wastewater permit

Type of application: Renewal

Request: Renewal without changes

Authority: Federal Clean Water Act (CWA) §402; Texas Water Code (TWC) §26.027; 30 Texas Administrative Code (TAC) Chapter 305, Subchapters C-F, and Chapters 307 and 319; commission policies; and Environmental Protection Agency (EPA) guidelines

**EXECUTIVE DIRECTOR RECOMMENDATION**

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit will expire at midnight, five years from the date of permit issuance according to the requirements of 30 TAC §305.127(1)(C)(i).

**REASON FOR PROJECT PROPOSED**

The applicant applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of its existing permit.

**PROJECT DESCRIPTION AND LOCATION**

The applicant currently operates Holiday Beach Water Supply Corporation WTP, a portable water treatment plant.

Raw water is pumped from public wells to a reverse osmosis treatment unit, which removes impurities such as total dissolved solids and chlorides. The effluent containing the removed impurities is pumped to a sump tank, which is then pumped out through a 2-inch pipe for discharge via Outfall 001. Purified potable water is supplied to approximately 730 customers within the Holiday Beach Water Supply Corporation service area.

The facility is located at 5 Saint Charles Loop East, near the City of Rockport, Aransas County, Texas 78382.

**Discharge Route and Designated Uses**

The effluent is discharged to an unnamed tidal ditch, thence to tidal flats, thence to the Copano Bay portion of Copano Bay/Port Bay/Mission Bay in Segment No. 2472 of the Bays and Estuaries. The unclassified receiving water uses are high aquatic life use for the unnamed tidal ditch and exceptional aquatic life use for Tidal Flats. The designated uses for Segment No. 2472 are primary contact recreation, exceptional aquatic life use, and oyster waters. The effluent limits in the draft permit will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and revisions.

STATEMENT OF BASIS / TECHNICAL SUMMARY AND  
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION  
TPDES Permit No. WQ0004290000

**Endangered Species Review**

A priority watershed of critical concern has been identified in Segment No. 2472 in Aransas County. Therefore, the Whooping Crane, *Grus americana*, an endangered aquatic dependent species, has been determined to occur in the watershed of Segment No. 2472. To make this determination for Texas Pollutant Discharge Elimination System (TPDES) permits, TCEQ and EPA only considered aquatic or aquatic dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the United States Fish and Wildlife Service's (USFWS) biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The presence of the endangered Whooping Crane requires EPA review and, if appropriate, consultation with USFWS.

The piping plover, *Charadrius melodus* Ord, a threatened aquatic dependent species, is found in the watershed of Segment No. 2472; however, the facility is not a petroleum facility and its discharge is not expected to have an effect on the piping plover. This determination is based on the United States Fish and Wildlife Service's (USFWS) biological opinion on the State of Texas authorization of the TPDES program (September 14, 1998, October 21, 1998 update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the piping plover.

**Impaired Water Bodies**

Segment No. 2472 is currently listed on the state's inventory of impaired and threatened waters, the 2022 CWA §303(d) list. The listing is for bacteria (oyster waters) in Mission Bay, the Aransas River Arm, Port Bay, and the eastern shoreline (AU 2472OW\_01). There are no other Segment 2472 303(d) impairment listings.

This permit action is a renewal for a facility that is not authorized to discharge domestic wastewater. Therefore, this discharge is not expected to increase the loadings of any pollutants or contribute to the above listed impairment.

**Completed Total Maximum Daily Loads (TMDLs)**

There are no completed TMDLs for Segment No. 2472.

**Dissolved Oxygen**

Due to the low levels of oxygen-demanding constituents expected from this type of discharge, no significant dissolved oxygen depletion is anticipated in the receiving waters as a result of this discharge.

**SUMMARY OF EFFLUENT DATA**

The following is a quantitative description of the discharge described in the monthly effluent report data for the period November 2019 through October 2024. The "Avg of Daily Avg" values presented in the following table are the average of all daily average values for the reporting period for each pollutant. The "Max of Daily Max" values presented in the following table are the individual maximum values for the reporting period for each pollutant. Flows are expressed in million gallons per day (MGD). All pH values are expressed in standard units (SU).

**Flow**

Outfall	Frequency	Avg of Daily Avg, MGD	Max of Daily Max, MGD
001	Continuous	0.025	0.075

STATEMENT OF BASIS / TECHNICAL SUMMARY AND  
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION  
TPDES Permit No. WQ0004290000

**Effluent Characteristics**

Outfall	Pollutant	Avg of Daily Avg	Max of Daily Max
		mg/L	mg/L
001	Total Dissolved Solids (TDS)	N/A	11,600
	Chloride	N/A	4,690
	pH	6.9 SU, minimum	8.0 SU

No effluent limit violations were documented in the monthly effluent reports.

**DRAFT PERMIT CONDITIONS**

The draft permit authorizes the discharge of water treatment wastes<sup>1</sup> at a daily average flow not to exceed 0.12 MGD via Outfall 001.

Effluent limitations are established in the draft permit as follows:

Outfall	Pollutant	Daily Average mg/L	Daily Maximum mg/L
001	Flow, MGD	0.12 MGD	0.12 MGD
	TDS	N/A	Report
	Chloride	N/A	Report
	pH, SU	6.0 SU (minimum)	9.0 SU

**OUTFALL LOCATIONS**

Outfall	Latitude	Longitude
001	28.158713 N	97.001292 W

**Technology-Based Effluent Limitations**

Regulations in Title 40 of the Code of Federal Regulations (40 CFR) require that technology-based limitations be placed in wastewater discharge permits based on effluent limitations guidelines, where applicable, or on best professional judgment (BPJ) in the absence of guidelines. The daily minimum and daily maximum effluent limitations for pH were originally based on BPJ.

There are no technology-based limitations nor water quality-based limitations applicable to this discharge which are more stringent than the existing limitations; therefore, the pH limits are still protective and have been continued in the draft permit based on EPA's anti-backsliding regulations in 40 CFR §122.44(l).

**Water Quality-Based Effluent Limitations**

Calculations of water quality-based effluent limitations for the protection of aquatic life and human health are presented in Appendix B. Aquatic life criteria established in Table 1 and human health criteria established in Table 2 of 30 TAC Chapter 307 are incorporated into the calculations, as are recommendations in the Water Quality Assessment Team's memorandum dated September 18, 2024. TCEQ practice for determining significant potential is to compare the reported analytical data from

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<sup>1</sup> The term *water treatment wastes* includes but is not limited to: cold lime water treatment wastes, demineralizer backwash, filter backwash, ion exchange water treatment system wastes, membrane regeneration wastes, and reverse osmosis reject water.



STATEMENT OF BASIS / TECHNICAL SUMMARY AND  
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION  
TPDES Permit No. WQ0004290000

the facility against percentages of the calculated daily average water quality-based effluent limitation. Permit limitations are required when analytical data reported in the application exceeds 85 percent of the calculated daily average water quality-based effluent limitation. Monitoring and reporting is required when analytical data reported in the application exceeds 70 percent of the calculated daily average water quality-based effluent limitation.

Data reported in the application was screened against the calculated water quality-based effluent limitations and the existing permit is still protective.

**Total Dissolved Solids (TDS), Chloride, and Sulfate Screening**

Average concentrations of TDS, chloride, and sulfate reported in the application are all less than the respective criteria for Segment No. 2472; therefore, no further screening is necessary. Daily maximum monitoring and reporting requirements for TDS and chloride are continued in the draft permit based on antibacksliding.

**pH Screening**

The existing permit includes pH limits of 6.0 – 9.0 SU at Outfall 001, which discharges into an unclassified water body. Consistent with the procedures for pH screening that were submitted to EPA with a letter dated May 28, 2014, and approved by EPA in a letter dated June 2, 2014, requiring a discharge to an unclassified water body to meet pH limits of 6.0 – 9.0 standard units reasonably ensures instream compliance with *Texas Surface Water Quality Standards* pH criteria. These limits have been carried forward in the draft permit.

**Whole Effluent Toxicity Testing (Biomonitoring)**

Biomonitoring requirements are not included in the draft permit. The existing permit did not establish biomonitoring requirements and discharges authorized by this permit do not meet the threshold established in the *Procedures to Implement the Texas Surface Water Quality Standards* (RG-194) to impose biomonitoring requirements.

**SUMMARY OF CHANGES FROM APPLICATION**

No changes were made from the application.

**SUMMARY OF CHANGES FROM EXISTING PERMIT**

The following changes have been made to the draft permit.

1. Pages 3-13 were updated (May 2021 version).
2. The customer mailing address was changed from the current permit.

**BASIS FOR DRAFT PERMIT**

The following items were considered in developing the draft permit:

1. Application received on July 11, 2024.
2. Existing permits: TPDES Permit No. WQ0004290000 issued on March 17, 2020.
3. TCEQ Rules.
4. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective March 1, 2018, as approved by EPA Region 6.
5. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective March 6, 2014, as approved by EPA Region 6, for portions of the 2018 standards not approved by EPA Region 6.

STATEMENT OF BASIS / TECHNICAL SUMMARY AND  
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION  
TPDES Permit No. WQ0004290000

6. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective July 22, 2010, as approved by EPA Region 6, for portions of the 2014 standards not approved by EPA Region 6.
7. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective August 17, 2000, and Appendix E, effective February 27, 2002, for portions of the 2010 standards not approved by EPA Region 6.
8. *Procedures to Implement the Texas Surface Water Quality Standards* (IPs), Texas Commission on Environmental Quality, June 2010, as approved by EPA Region 6.
9. *Procedures to Implement the Texas Surface Water Quality Standards*, Texas Commission on Environmental Quality, January 2003, for portions of the 2010 IPs not approved by EPA Region 6.
10. Memos from the Standards Implementation Team and Water Quality Assessment Team of the Water Quality Assessment Section of the TCEQ.
11. *Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits*, TCEQ Document No. 98-001.000-OWR-WQ, May 1998.
12. EPA Effluent Guidelines: N/A.
13. Consistency with the Coastal Management Plan: The executive director has reviewed this action for consistency with the goals and policies of the Texas Coastal Management Program (CMP) in accordance with the regulations of the General Land Office and has determined that the action is consistent with the applicable CMP goals and policies.
14. Letter dated May 28, 2014, from L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ, to Bill Honker, Director, Water Quality Protection Division, EPA (TCEQ proposed development strategy for pH evaluation procedures).
15. Letter dated June 2, 2014, from William K. Honker, P.E., Director, Water Quality Protection Division, EPA, to L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ (Approval of TCEQ proposed development strategy for pH evaluation procedures).

## PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the chief clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the applicant to place a copy of the application in a public place for reviewing and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The Chief Clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent to the Chief Clerk, along with the Executive Director's preliminary decision contained in the technical summary or fact sheet. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision and draft permit in the public place with the application.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment and is not a contested case hearing.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice

STATEMENT OF BASIS / TECHNICAL SUMMARY AND  
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION  
TPDES Permit No. WQ0004290000

provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

The Executive Director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the Executive Director's response to comments and final decision is mailed. If a hearing request or request for reconsideration is filed, the Executive Director will not issue the permit and will forward the application and request to the TCEQ commissioners for their consideration at a scheduled commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

If the Executive Director calls a public meeting or the commission grants a contested case hearing as described above, the commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the commission will consider all public comments in making its decision and shall either adopt the Executive Director's response to public comments or prepare its own response.

For additional information about this application, contact Thomas E. Starr at (512) 239-4570.

Thomas E. Starr  
Thomas E. Starr, P.E.

May 2, 2025  
Date

STATEMENT OF BASIS / TECHNICAL SUMMARY AND  
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION  
TPDES Permit No. WQ0004290000

**Appendix A**  
**Calculated Water Quality-Based Effluent Limits**

TEXTOX MENU #5 - BAY OR WIDE TIDAL RIVER			
The water quality-based effluent limitations developed below are calculated using:			
Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Saltwater Aquatic Life			
Table 2, 2018 Texas Surface Water Quality Standards for Human Health			
"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010			
<b>PERMIT INFORMATION</b>			
Permittee Name:	Holiday Beach Water Supply Corporation		
TPDES Permit No:	WQ0004290000		
Outfall No:	001		
Prepared by:	Thomas Starr		
Date:	May 2, 2025		
<b>DISCHARGE INFORMATION</b>			
Receiving Waterbody:	unnamed tidal ditch		
Segment No:	2472		
TSS (mg/L):	12		
Effluent Flow for Aquatic Life (MGD)	<10		
% Effluent for Chronic Aquatic Life (Mixing Zone):	100		
% Effluent for Acute Aquatic Life (ZID):	100		
Oyster Waters?	no		
Effluent Flow for Human Health (MGD):	<10		
% Effluent for Human Health:	100		

CALCULATE DISSOLVED FRACTION (AND ENTER WATER EFFECT RATIO IF APPLICABLE):								
<i>Estuarine Metal</i>	<i>Intercept (b)</i>	<i>Slope (m)</i>	<i>Partition Coefficient (Kp)</i>	<i>Dissolved Fraction (Cd/Ct)</i>	<i>Source</i>	<i>Water Effect Ratio (WER)</i>	<i>Source</i>	
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed	
Arsenic	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed	
Cadmium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed	
Chromium (total)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed	
Chromium (trivalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed	
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed	
Copper	4.85	-0.72	11830.13	0.876		1.00	Assumed	
Lead	6.06	-0.85	138897.98	0.375		1.00	Assumed	
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed	
Nickel	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed	
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed	
Silver	5.86	-0.74	115187.64	0.420		1.00	Assumed	
Zinc	5.36	-0.52	62925.37	0.570		1.00	Assumed	

STATEMENT OF BASIS / TECHNICAL SUMMARY AND  
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION  
TPDES Permit No. WQ0004290000

AQUATIC LIFE								
CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:								
Parameter	SW Acute Criterion (µg/L)	SW Chronic Criterion (µg/L)	WLAa (µg/L)	WLAc (µg/L)	LTAa (µg/L)	LTAc (µg/L)	Daily Avg. (µg/L)	Daily Max. (µg/L)
Acrolein	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aldrin	1.3	N/A	1.30	N/A	0.416	N/A	0.611	1.29
Aluminum	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arsenic	149	78	149	78.0	47.7	47.6	69.9	147
Cadmium	40.0	8.75	40.0	8.75	12.8	5.34	7.84	16.5
Carbaryl	613	N/A	613	N/A	196	N/A	288	610
Chlordane	0.09	0.004	0.0900	0.00400	0.0288	0.00244	0.00358	0.00758
Chlorpyrifos	0.011	0.006	0.0110	0.00600	0.00352	0.00366	0.00517	0.0109
Chromium (trivalent)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chromium (hexavalent)	1090	49.6	1090	49.6	349	30.3	44.4	94.0
Copper	13.5	3.6	15.4	4.11	4.93	2.51	3.68	7.79
Copper (oyster waters)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cyanide (free)	5.6	5.6	5.60	5.60	1.79	3.42	2.63	5.57
4,4'-DDT	0.13	0.001	0.130	0.00100	0.0416	0.000610	0.000896	0.00189
Demeton	N/A	0.1	N/A	0.100	N/A	0.0610	0.0896	0.189
Diazinon	0.819	0.819	0.819	0.819	0.262	0.500	0.385	0.815
Dicofol [Kelthane]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dieldrin	0.71	0.002	0.710	0.00200	0.227	0.00122	0.00179	0.00379
Diuron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan I (alpha )	0.034	0.009	0.0340	0.00900	0.0109	0.00549	0.00807	0.0170
Endosulfan II (beta )	0.034	0.009	0.0340	0.00900	0.0109	0.00549	0.00807	0.0170
Endosulfan sulfate	0.034	0.009	0.0340	0.00900	0.0109	0.00549	0.00807	0.0170
Endrin	0.037	0.002	0.0370	0.00200	0.0118	0.00122	0.00179	0.00379
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.0100	N/A	0.00610	0.00896	0.0189
Heptachlor	0.053	0.004	0.0530	0.00400	0.0170	0.00244	0.00358	0.00758
Hexachlorocyclohexane (gamma ) [Lindane]	0.16	N/A	0.160	N/A	0.0512	N/A	0.0752	0.159
Lead	133	5.3	355	14.1	113	8.62	12.6	26.8
Malathion	N/A	0.01	N/A	0.0100	N/A	0.00610	0.00896	0.0189
Mercury	2.1	1.1	2.10	1.10	0.672	0.671	0.986	2.08
Methoxychlor	N/A	0.03	N/A	0.0300	N/A	0.0183	0.0269	0.0569
Mirex	N/A	0.001	N/A	0.00100	N/A	0.000610	0.000896	0.00189
Nickel	118	13.1	118	13.1	37.8	7.99	11.7	24.8
Nonylphenol	7	1.7	7.00	1.70	2.24	1.04	1.52	3.22
Parathion (ethyl)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pentachlorophenol	15.1	9.6	15.1	9.60	4.83	5.86	7.10	15.0
Phenanthrene	7.7	4.6	7.70	4.60	2.46	2.81	3.62	7.66
Polychlorinated Biphenyls [PCBs]	10	0.03	10.0	0.0300	3.20	0.0183	0.0269	0.0569
Selenium	564	136	564	136	180	83.0	121	258
Silver	2	N/A	4.76	N/A	1.52	N/A	2.24	4.74
Toxaphene	0.21	0.0002	0.210	0.000200	0.0672	0.000122	0.000179	0.000379
Tributyltin [TBT]	0.24	0.0074	0.240	0.00740	0.0768	0.00451	0.00663	0.0140
2,4,5 Trichlorophenol	259	12	259	12.0	82.9	7.32	10.7	22.7
Zinc	92.7	84.2	163	148	52.1	90.1	76.5	161

STATEMENT OF BASIS / TECHNICAL SUMMARY AND  
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION  
TPDES Permit No. WQ0004290000

HUMAN HEALTH					
CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:					
<i>Parameter</i>	<i>Fish Only Criterion (µg/L)</i>	<i>WLAh (µg/L)</i>	<i>LTAh (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Acrylonitrile	115	115	107	157	332
Aldrin	1.147E-05	0.0000115	0.0000107	0.0000156	0.0000331
Anthracene	1317	1317	1225	1800	3809
Antimony	1071	1071	996	1464	3097
Arsenic	N/A	N/A	N/A	N/A	N/A
Barium	N/A	N/A	N/A	N/A	N/A
Benzene	581	581	540	794	1680
Benzidine	0.107	0.107	0.0995	0.146	0.309
Benzo(a)anthracene	0.025	0.0250	0.0233	0.0341	0.0723
Benzo(a)pyrene	0.0025	0.00250	0.00233	0.00341	0.00723
Bis(chloromethyl)ether	0.2745	0.275	0.255	0.375	0.793
Bis(2-chloroethyl)ether	42.83	42.8	39.8	58.5	123
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	7.55	7.55	7.02	10.3	21.8
Bromodichloromethane [Dichlorobromomethane]	275	275	256	375	795
Bromoform [Tribromomethane]	1060	1060	986	1449	3065
Cadmium	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	46	46.0	42.8	62.8	133
Chlordane	0.0025	0.00250	0.00233	0.00341	0.00723
Chlorobenzene	2737	2737	2545	3741	7916
Chlorodibromomethane [Dibromochloromethane]	183	183	170	250	529
Chloroform [Trichloromethane]	7697	7697	7158	10522	22262
Chromium (hexavalent)	502	502	467	686	1451
Chrysene	2.52	2.52	2.34	3.44	7.28
Cresols [Methylphenols]	9301	9301	8650	12715	26901
Cyanide (free)	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.00200	0.00186	0.00273	0.00578
4,4'-DDE	0.00013	0.000130	0.000121	0.000177	0.000375
4,4'-DDT	0.0004	0.000400	0.000372	0.000546	0.00115
2,4'-D	N/A	N/A	N/A	N/A	N/A
Danitol [Fenprothrin]	473	473	440	646	1368
1,2-Dibromoethane [Ethylene Dibromide]	4.24	4.24	3.94	5.79	12.2
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	595	595	553	813	1720
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	3299	3299	3068	4510	9541
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	2.24	2.24	2.08	3.06	6.47
1,2-Dichloroethane	364	364	339	497	1052
1,1-Dichloroethylene [1,1-Dichloroethene]	55114	55114	51256	75346	159406
Dichloromethane [Methylene Chloride]	13333	13333	12400	18227	38563
1,2-Dichloropropane	259	259	241	354	749
1,3-Dichloropropene [1,3-Dichloropropylene]	119	119	111	162	344
Dicofol [Kelthane]	0.30	0.300	0.279	0.410	0.867
Dieldrin	2.0E-05	0.0000200	0.0000186	0.0000273	0.0000578
2,4-Dimethylphenol	8436	8436	7845	11532	24399
Di- <i>n</i> -Butyl Phthalate	92.4	92.4	85.9	126	267
Dioxins/Furans [TCDD Equivalents]	7.97E-08	7.97E-08	7.41E-08	1.08E-07	2.30E-07
Endrin	0.02	0.0200	0.0186	0.0273	0.0578
Epichlorohydrin	2013	2013	1872	2751	5822
Ethylbenzene	1867	1867	1736	2552	5399
Ethylene Glycol	1.68E+07	16800000	15624000	22967280	48590640
Fluoride	N/A	N/A	N/A	N/A	N/A
Heptachlor	0.0001	0.000100	0.0000930	0.000136	0.000289
Heptachlor Epoxide	0.00029	0.000290	0.000270	0.000396	0.000838
Hexachlorobenzene	0.00068	0.000680	0.000632	0.000929	0.00196
Hexachlorobutadiene	0.22	0.220	0.205	0.300	0.636

STATEMENT OF BASIS / TECHNICAL SUMMARY AND  
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION  
TPDES Permit No. WQ0004290000

<b>Parameter</b>	<b>Fish Only Criterion (µg/L)</b>	<b>WLAh (µg/L)</b>	<b>LTAh (µg/L)</b>	<b>Daily Avg. (µg/L)</b>	<b>Daily Max. (µg/L)</b>
Hexachlorocyclohexane ( <i>alpha</i> )	0.0084	0.00840	0.00781	0.0114	0.0242
Hexachlorocyclohexane ( <i>beta</i> )	0.26	0.260	0.242	0.355	0.751
Hexachlorocyclohexane ( <i>gamma</i> ) [Lindane]	0.341	0.341	0.317	0.466	0.986
Hexachlorocyclopentadiene	11.6	11.6	10.8	15.8	33.5
Hexachloroethane	2.33	2.33	2.17	3.18	6.73
Hexachlorophene	2.90	2.90	2.70	3.96	8.38
4,4'-Isopropylidenediphenol [Bisphenol A]	15982	15982	14863	21848	46224
Lead	3.83	10.2	9.50	13.9	29.5
Mercury	0.0250	0.0250	0.0233	0.0341	0.0723
Methoxychlor	3.0	3.00	2.79	4.10	8.67
Methyl Ethyl Ketone	9.92E+05	992000	922560	1356163	2869161
Methyl <i>tert</i> -butyl ether [MTBE]	10482	10482	9748	14329	30317
Nickel	1140	1140	1060	1558	3297
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	1873	1873	1742	2560	5417
N-Nitrosodiethylamine	2.1	2.10	1.95	2.87	6.07
N-Nitroso-di- <i>n</i> -Butylamine	4.2	4.20	3.91	5.74	12.1
Pentachlorobenzene	0.355	0.355	0.330	0.485	1.02
Pentachlorophenol	0.29	0.290	0.270	0.396	0.838
Polychlorinated Biphenyls [PCBs]	6.4E-04	0.000640	0.000595	0.000874	0.00185
Pyridine	947	947	881	1294	2739
Selenium	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.24	0.240	0.223	0.328	0.694
1,1,2,2-Tetrachloroethane	26.35	26.4	24.5	36.0	76.2
Tetrachloroethylene [Tetrachloroethylene]	280	280	260	382	809
Thallium	0.23	0.230	0.214	0.314	0.665
Toluene	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.0110	0.0102	0.0150	0.0318
2,4,5-TP [Silvex]	369	369	343	504	1067
1,1,1-Trichloroethane	784354	784354	729449	1072290	2268587
1,1,2-Trichloroethane	166	166	154	226	480
Trichloroethylene [Trichloroethene]	71.9	71.9	66.9	98.2	207
2,4,5-Trichlorophenol	1867	1867	1736	2552	5399
TTHM [Sum of Total Trihalomethanes]	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	16.5	16.5	15.3	22.5	47.7

STATEMENT OF BASIS / TECHNICAL SUMMARY AND  
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION  
TPDES Permit No. WQ0004290000

<b>Aquatic Life</b>	<b>70% of Daily Avg.</b>	<b>85% of Daily Avg.</b>
<b>Parameter</b>	<b>(µg/L)</b>	<b>(µg/L)</b>
Acrolein	N/A	N/A
Aldrin	0.428	0.519
Aluminum	N/A	N/A
Arsenic	48.9	59.4
Cadmium	5.49	6.66
Carbaryl	201	245
Chlordane	0.00251	0.00304
Chlorpyrifos	0.00362	0.00439
Chromium (trivalent)	N/A	N/A
Chromium (hexavalent)	31.1	37.8
Copper	2.58	3.13
Copper (oyster waters)	N/A	N/A
Cyanide (free)	1.84	2.23
4,4'-DDT	0.000627	0.000762
Demeton	0.0627	0.0762
Diazinon	0.269	0.327
Dicofol [Kelthane]	N/A	N/A
Dieldrin	0.00125	0.00152
Diuron	N/A	N/A
Endosulfan I ( <i>alpha</i> )	0.00564	0.00685
Endosulfan II ( <i>beta</i> )	0.00564	0.00685
Endosulfan sulfate	0.00564	0.00685
Endrin	0.00125	0.00152
Guthion [Azinphos Methyl]	0.00627	0.00762
Heptachlor	0.00251	0.00304
Hexachlorocyclohexane ( <i>gamma</i> ) [Lindane]	0.0526	0.0639
Lead	8.87	10.7
Malathion	0.00627	0.00762
Mercury	0.690	0.838
Methoxychlor	0.0188	0.0228
Mirex	0.000627	0.000762
Nickel	8.22	9.98
Nonylphenol	1.06	1.29
Parathion (ethyl)	N/A	N/A
Pentachlorophenol	4.97	6.03
Phenanthrene	2.53	3.07
Polychlorinated Biphenyls [PCBs]	0.0188	0.0228
Selenium	85.3	103
Silver	1.56	1.90
Toxaphene	0.000125	0.000152
Tributyltin [TBT]	0.00464	0.00564
2,4,5 Trichlorophenol	7.53	9.14
Zinc	53.5	65.0



STATEMENT OF BASIS / TECHNICAL SUMMARY AND  
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION  
TPDES Permit No. WQ0004290000

Human Health	70% of Daily Avg.	85% of Daily Avg.
Parameter	(µg/L)	(µg/L)
Acrylonitrile	110	133
Aldrin	0.0000109	0.0000133
Anthracene	1260	1530
Antimony	1024	1244
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	555	675
Benzidine	0.102	0.124
Benzo(a)anthracene	0.0239	0.0290
Benzo(a)pyrene	0.00239	0.00290
Bis(chloromethyl)ether	0.262	0.318
Bis(2-chloroethyl)ether	40.9	49.7
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	7.22	8.77
Bromodichloromethane [Dichlorobromomethane]	263	319
Bromoform [Tribromomethane]	1014	1231
Cadmium	N/A	N/A
Carbon Tetrachloride	44.0	53.4
Chlordane	0.00239	0.00290
Chlorobenzene	2619	3180
Chlorodibromomethane [Dibromochloromethane]	175	212
Chloroform [Trichloromethane]	7365	8944
Chromium (hexavalent)	480	583
Chrysene	2.41	2.92
Cresols [Methylphenols]	8900	10808
Cyanide (free)	N/A	N/A
4,4'-DDD	0.00191	0.00232
4,4'-DDE	0.000124	0.000151
4,4'-DDT	0.000382	0.000464
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	452	549
1,2-Dibromoethane [Ethylene Dibromide]	4.05	4.92
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	569	691
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	3157	3833
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	2.14	2.60
1,2-Dichloroethane	348	422
1,1-Dichloroethylene [1,1-Dichloroethene]	52742	64044
Dichloromethane [Methylene Chloride]	12759	15493
1,2-Dichloropropane	247	300
1,3-Dichloropropene [1,3-Dichloropropylene]	113	138
Dicofol [Kelthane]	0.287	0.348
Dieldrin	0.0000191	0.0000232
2,4-Dimethylphenol	8072	9802
Di- <i>n</i> -Butyl Phthalate	88.4	107
Dioxins/Furans [TCDD Equivalents]	7.62E-08	9.26E-08
Endrin	0.0191	0.0232
Epichlorohydrin	1926	2339
Ethylbenzene	1786	2169
Ethylene Glycol	16077096	19522188
Fluoride	N/A	N/A
Heptachlor	0.0000956	0.000116
Heptachlor Epoxide	0.000277	0.000336
Hexachlorobenzene	0.000650	0.000790
Hexachlorobutadiene	0.210	0.255

STATEMENT OF BASIS / TECHNICAL SUMMARY AND  
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION  
TPDES Permit No. WQ0004290000

Human Health	70% of Daily Avg.	85% of Daily Avg.
Parameter	(µg/L)	(µg/L)
Hexachlorocyclohexane ( <i>alpha</i> )	0.00803	0.00976
Hexachlorocyclohexane ( <i>beta</i> )	0.248	0.302
Hexachlorocyclohexane ( <i>gamma</i> ) [Lindane]	0.326	0.396
Hexachlorocyclopentadiene	11.1	13.4
Hexachloroethane	2.22	2.70
Hexachlorophene	2.77	3.36
4,4'-Isopropylidenediphenol [Bisphenol A]	15294	18571
Lead	9.77	11.8
Mercury	0.0239	0.0290
Methoxychlor	2.87	3.48
Methyl Ethyl Ketone	949314	1152738
Methyl <i>tert</i> -butyl ether [MTBE]	10030	12180
Nickel	1090	1324
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	1792	2176
N-Nitrosodiethylamine	2.00	2.44
N-Nitroso-di- <i>n</i> -Butylamine	4.01	4.88
Pentachlorobenzene	0.339	0.412
Pentachlorophenol	0.277	0.336
Polychlorinated Biphenyls [PCBs]	0.000612	0.000743
Pyridine	906	1100
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.229	0.278
1,1,2,2-Tetrachloroethane	25.2	30.6
Tetrachloroethylene [Tetrachloroethylene]	267	325
Thallium	0.220	0.267
Toluene	N/A	N/A
Toxaphene	0.0105	0.0127
2,4,5-TP [Silvex]	353	428
1,1,1-Trichloroethane	750603	911446
1,1,2-Trichloroethane	158	192
Trichloroethylene [Trichloroethene]	68.8	83.5
2,4,5-Trichlorophenol	1786	2169
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	15.7	19.1

STATEMENT OF BASIS / TECHNICAL SUMMARY AND  
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION  
TPDES Permit No. WQ0004290000

**Appendix B**  
**Comparison of Effluent Limits**

The following table is a summary of technology-based effluent limitations calculated/assessed in the draft permit (Technology-Based), calculated/assessed water quality-based effluent limitations (Water Quality-Based), and effluent limitations in the existing permit (Existing Permit). Effluent limitations appearing in bold are the most stringent of the three and are included in the draft permit.

Outfall	Pollutant	Technology-Based		Water Quality-Based		Existing Permit	
		Daily Avg	Daily Max	Daily Avg	Daily Max	Daily Avg	Daily Max
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
001	Flow, MGD	-	-	-	-	<b>0.12 MGD</b>	<b>0.12 MGD</b>
	TDS	-	-	-	-	<b>N/A</b>	<b>Report</b>
	Chloride	-	-	-	-	<b>N/A</b>	<b>Report</b>
	pH, SU	6.0 SU (minimum)	9.0 SU	-	-	<b>6.0 SU (minimum)</b>	<b>9.0 SU</b>



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST

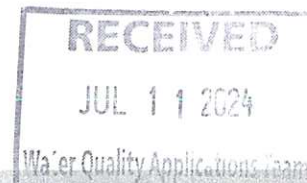
**Complete and submit this checklist with the industrial wastewater permit application.**

APPLICANT NAME: Holiday Beach Water Supply Corporation

PERMIT NUMBER (If new, leave blank): WQ00 04290000

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

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



For TCEQ Use Only

Segment Number \_\_\_\_\_ County \_\_\_\_\_

Expiration Date \_\_\_\_\_ Region \_\_\_\_\_

Permit Number \_\_\_\_\_

# **Administrative Reports**



# 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](#)<sup>1</sup>).

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

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

Applicant Name: Holiday Beach Water Supply Corporation

Permit No.: WQ0004290000

EPA ID No.: TX00123871

Expiration Date: 17 March 2025

- 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: Click to enter text.

For TCEQ Use Only

Segment Number \_\_\_\_\_ County \_\_\_\_\_

Expiration Date \_\_\_\_\_ Region \_\_\_\_\_

Permit Number \_\_\_\_\_

<sup>1</sup> [https://www.tceq.texas.gov/publications/search\\_forms.html](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)	<input type="checkbox"/> \$350	<input type="checkbox"/> \$350	<input type="checkbox"/> \$315	<input type="checkbox"/> \$150
Minor facility subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	<input type="checkbox"/> \$1,250	<input type="checkbox"/> \$1,250	<input checked="" type="checkbox"/> \$1,215	<input type="checkbox"/> \$150
Major facility	N/A <sup>2</sup>	<input type="checkbox"/> \$2,050	<input type="checkbox"/> \$2,015	<input type="checkbox"/> \$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: [707414, 707415](#)

Copy of voucher attachment: [Attachment 1](#)

**Item 2. Applicant Information (Instructions, Pages 26)**

a. Customer Number, if applicant is an existing customer: [CN6000654644](#)

**Note:** Locate the customer number using the [TCEQ's Central Registry Customer Search](#)<sup>3</sup>.

b. Legal name of the entity (applicant) applying for this permit: **Holiday Beach Water Supply Corporation**

**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: [Click to enter text.](#)

Full Name (Last/First Name): [Gill David](#)

Title: [President](#)

Credential: [Click to enter text.](#)

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

☒ Yes ☐ No

<sup>2</sup> All facilities are designated as minors until formally classified as a major by EPA.

<sup>3</sup> <https://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch>

# Attachment 1

[Questions or Comments >>](#)

[Shopping Cart](#)

[Select Fee](#)

[Search Transactions](#)

[Sign Out](#)

Your transaction is complete. Thank you for using TCEQ ePay.

**Note:** It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt and the vouchers for your records. An email receipt has also been sent.

## Transaction Information

**Trace Number:** 582EA000612153

**Date:** 05/30/2024 10:41 AM

**Payment Method:** CC - Authorization 000003090G

**ePay Actor:** HOLIDAY BEACH WATER SUPPL

**Actor Email:** water@hbwsc.com

**IP:** 75.87.65.138

**TCEQ Amount:** \$1,215.00

**Texas.gov Price:** \$1,242.59\*

\* 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.

## Payment Contact Information

**Name:** VERNON HALE

**Company:** HOLIDAY BEACH WATER SUPPLY CORP

**Address:** 8 ST CHARLES LOOP, ROCKPORT, TX 78382

**Phone:** 361-205-3184

## Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description	AR Number	Amount
<a href="#">707414</a>	WW PERMIT - MINOR FACILITY SUBJECT TO 40 CFR 400-471 - RENEWAL		\$1,200.00
<a href="#">707415</a>	30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE		\$15.00
<b>TCEQ Amount:</b>			<b>\$1,215.00</b>



[ePay Again](#)

[Exit ePay](#)

**Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt for your records.**

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**Statewide Links:** [Texas.gov](#) | [Texas Homeland Security](#) | [TRAIL Statewide Archive](#) | [Texas Veterans Portal](#)

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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: Click to enter text.

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 2

### 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: Click to enter text.

Full Name (Last/First Name): Hale, Vernon

Title: Operator/Manager

Credential: Click to enter text.

Organization Name: Holiday Beach Water Supply Corp.

Mailing Address: 2611 Hwy. 35 North

City/State/Zip: Rockport Tx, 78382

Phone No: (361)205-3184

Email: water@hbwsc.com

- b. ☒ Administrative Contact ☒ Technical Contact

Prefix: Click to enter text.

Full Name (Last/First Name): Gill, David

Title: President

Credential: Click to enter text.

Organization Name: Holiday Beach Water Supply Corp.

# **Core Data Form**



# TCEQ Core Data Form

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

## SECTION I: General Information

<b>1. Reason for Submission</b> (If other is checked please describe in space provided.)		
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input checked="" type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)		<input type="checkbox"/> Other
<b>2. Customer Reference Number</b> (if issued)	<a href="#">Follow this link to search for CN or RN numbers in Central Registry**</a>	<b>3. Regulated Entity Reference Number</b> (if issued)
CN 600654644		RN 103014965

## SECTION II: Customer Information

<b>4. General Customer Information</b>		<b>5. Effective Date for Customer Information Updates</b> (mm/dd/yyyy)		4/8/2024			
<input type="checkbox"/> New Customer <input checked="" type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership							
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)							
<i>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).</i>							
<b>6. Customer Legal Name</b> (If an individual, print last name first: eg: Doe, John)			<i>If new Customer, enter previous Customer below:</i>				
Holiday Beach Water Supply CorporaΘon							
<b>7. TX SOS/CPA Filing Number</b>	<b>8. TX State Tax ID</b> (11 digits)	<b>9. Federal Tax ID</b> (9 digits)	<b>10. DUNS Number</b> (if applicable)				
131895501	17427292754	742729275					
<b>11. Type of Customer:</b>		<b>Partnership:</b> <input type="checkbox"/> General <input type="checkbox"/> Limited					
<input checked="" type="checkbox"/> Corporation		<input type="checkbox"/> Individual					
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship <input type="checkbox"/> Other:					
<b>12. Number of Employees</b>		<b>13. Independently Owned and Operated?</b>					
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
<b>14. Customer Role</b> (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following							
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:							
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant							
<b>15. Mailing Address:</b>	Holiday Beach Water Supply CorporaΘon						
	2611 Hwy 35 North						
	<b>City</b>	Rockport	<b>State</b>	TX	<b>ZIP</b>	78382	<b>ZIP + 4</b>



<b>16. Country Mailing Information</b> (if outside USA)		<b>17. E-Mail Address</b> (if applicable)	
<b>18. Telephone Number</b>	<b>19. Extension or Code</b>	<b>20. Fax Number</b> (if applicable)	
( 361 ) 205-3184		(   ) -   -	

### SECTION III: Regulated Entity Information

<b>21. General Regulated Entity Information</b> (If 'New Regulated Entity' is selected, a new permit application is also required.)							
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input checked="" type="checkbox"/> Update to Regulated Entity Information							
<i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>							
<b>22. Regulated Entity Name</b> (Enter name of the site where the regulated action is taking place.)							
Holiday Beach Water Supply CorporaOn							
<b>23. Street Address of the Regulated Entity:</b>  (No PO Boxes)	8 St. Charles Loop East (Holiday Beach)						
	City	Rockport	State	TX	ZIP	78382	ZIP + 4
<b>24. County</b>	Aransas						

If no Street Address is provided, fields 25-28 are required.

<b>25. Description to Physical Location:</b>	8 St. Charles Loop East (Holiday Beach)				
<b>26. Nearest City</b>	<b>State</b>			<b>Nearest ZIP Code</b>	
Rockport	Tx			78358	
<i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i>					
<b>27. Latitude (N) In Decimal:</b>		<b>28. Longitude (W) In Decimal:</b>			
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
28	9	47.772	96	59	39.4794
<b>29. Primary SIC Code</b> (4 digits)	<b>30. Secondary SIC Code</b> (4 digits)	<b>31. Primary NAICS Code</b> (5 or 6 digits)	<b>32. Secondary NAICS Code</b> (5 or 6 digits)		
4941		221310			
<b>33. What is the Primary Business of this entity?</b> (Do not repeat the SIC or NAICS description.)					
Provide Drinking water to 850 customers					
<b>34. Mailing Address:</b>	Holiday Beach Water Supply Corp.				
	2611 Hwy 35 North				

	City	Rockport	State	TX	ZIP	78382	ZIP + 4	
35. E-Mail Address:		water@hbwsc.com						
36. Telephone Number			37. Extension or Code		38. Fax Number (if applicable)			
( 361 ) 205-3184					( ) -			

**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.


<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input checked="" type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

#### **SECTION IV: Preparer Information**

40. Name:	Vernon Hale		41. Title:	Water Operator/Manager
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address	
( 361 ) 205-3184		( ) -	water@hbwsc.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:	Holiday Beach Water Supply CorporaEon		Job Title:	President
Name (In Print):	David Gill		Phone:	( 361 ) 205- 7108
Signature:			Date:	6-25-24



Mailing Address: 2611 Hwy 35 North

City/State/Zip: Rockport Tx., 78382

Phone No: (361)205-7108

Email: Gilldavid710@yahoo.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: Click to enter text. Full Name (Last/First Name): Gill, David

Title: President

Credential: Click to enter text.

Organization Name: Holiday Beach Water Supply Corp.

Mailing Address: 2611 Hwy. 35 North

City/State/Zip: Rockport Tx., 78382

Phone No: (361)205-7108

Email: Gilldavid710@yahoo.com

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

Title: Vice President

Credential: Click to enter text.

Organization Name: Holiday Beach Water Supply Corp

Mailing Address: 9855 Briarwild

City/State/Zip: Houston Tx., 77080

Phone No: 832-265-1182

Email: adams@hbwsc.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: Click to enter text.

Full Name (Last/First Name): Hale Vernon

Title: Operator/Manager

Credential: Click to enter text.

Organization Name: Holiday Beach Water Supply Corp

Mailing Address: 2611 Hwy. 35 North

City/State/Zip: Rockport Tx., 78382

Phone No: (361)205-3184

Email: water@hbwsc.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: Click to enter text.

Full Name (Last/First Name): Hale Vernon

Title: Operator/Manager

Credential: Click to enter text.

Organization Name: Holiday Beach Water Supply Corp.

Mailing Address: 2611 Hwy. 35 North

City/State/Zip: Rockport Tx., 78382

**Item 9. Notice Information (Instructions, Pages 28)****a. Individual Publishing the Notices**Prefix: [Click to enter text.](#)Full Name (Last/First Name): [Hale Vernon](#)Title: [Operator/Manager](#)Credential: [Click to enter text.](#)Organization Name: [Holiday Beach Water Supply Corp](#)Mailing Address: [2611 Hwy. 35 North](#)City/State/Zip: [Rockport Tx., 78382](#)Phone No: [\(361\)205-3184](#)Email: [water@hbwsc.com](mailto:water@hbwsc.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: [water@hbwsc.com](mailto:water@hbwsc.com)☐ Fax: [Click to enter text.](#)☒ Regular Mail (USPS)Mailing Address: [2611 Hwy 35 North](#)City/State/Zip Code: [Rockport Tx. 78382](#)**c. Contact in the Notice**Prefix: [Click to enter text.](#)Full Name (Last/First Name): [Hale Vernon](#)Title: [Operator/Manager](#)Credential: [Click to enter text.](#)Organization Name: [Holiday Beach Water Supply Corp.](#)Phone No: [\(361\)205-3184](#)Email: [water@hbwsc.com](mailto:water@hbwsc.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: [Aransas County Courthouse County Clerk's Office](#)Location within the building: [Main Entrance on the bulletin board](#)Physical Address of Building: [2840 Hwy 35 N](#)City: [Rockport](#) County: [Aransas](#)**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? [Click to enter text.](#)

- f. Plain Language Summary Template – Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment. Attachment: [Click to enter text.](#)

- 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: [Click to enter text.](#)

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

- a. TCEQ issued Regulated Entity Number (RN), if available: RN103014965

**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): Holiday Beach Water Supply Corp

- 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: Holiday Beach Water Supply Corp

Mailing Address: 2611 Hwy. 35 North

City/State/Zip: Rockport Tx., 78382

Phone No: (361)205-3184

Email: water@hbwsc.com

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

f. Owner of land where treatment facility is or will be: [Click to enter text.](#)

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

or Organization Name: [Holiday Beach Water Supply Corp.](#)

Mailing Address: [2611 Hwy. 35 North](#)

City/State/Zip: [Rockport Tx., 78382](#)

Phone No: [\(361\)205-3184](#)

Email: [water@hbwsc.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

☐ Three-miles downstream information

☒ Applicant's property boundaries

☐ Treatment facility boundaries

☒ Labeled point(s) of discharge

☐ Highlighted discharge route(s)

☐ Effluent disposal site boundaries

☐ All wastewater ponds

☐ Sewage sludge disposal site

☐ New and future construction

Attachment: [Click to enter text.](#)

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): Rockport

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

- 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:

- k. County in which the disposal site is located:

- l. For TLAPs, describe how effluent is/will be routed from the treatment facility to the disposal site: N/A

- m. For TLAPs, identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: N/A

## 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: W00004290000

Applicant Name: Holiday Beach Water Supply Corporation

Certification: I, David Gill, 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): David Gill

Signatory title: President

Signature: \_\_\_\_\_

(Use blue ink)

Date: 6-25-24

Subscribed and Sworn to before me by the said David Gill

on this 25<sup>th</sup> day of June, 20 24.

My commission expires on the May day of 18<sup>th</sup>, 20 28.

Jeanette Westrick  
Notary Public

Benton  
~~County, Texas~~ COUNTY, ARKANSAS



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

# 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:** Attachment 3



# 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:** WQ000 [Click to enter text.](#)

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: [Click to enter text.](#)

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**

# 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](mailto:WQ-ARPTeam@tceq.texas.gov) or by phone at (512) 239-4671.

The following applies to all applications:

1. Permittee: Holiday Beach Water Supply Corporation

Permit No. WQ00 04290000EPA ID No. TX 0123871

Address of the project (or a location description that includes street/highway, city/vicinity, and county):

5 St. Charles Loon (Holiday Beach) Water Plant Rockport Texas Aransas County



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):

First and Last Name: Vernon Hale

Credential (P.E, P.G., Ph.D., etc.):

Title: Operator/Manager

Mailing Address: 2611 Hwy. 35 North

City, State, Zip Code: Rockport Tx. 78382

Phone No.: (361)205-3184 Ext.:

Fax No.:

E-mail Address: water@hbwsc.com

2. List the county in which the facility is located: Aransas
3. If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.

N/A

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.

From plant site via 2" pvc pipe to tidal ditch then out to Copano Bay

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):

N/A

2. Describe existing disturbances, vegetation, and land use:

N/A

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:

N/A

4. Provide a brief history of the property, and name of the architect/builder, if known.

N/A

# 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



# 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](#)<sup>1</sup> 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).

We provide drinking water to the community via 2 Reverse Osmosis systems. The only wastewater we have at this business is the discharge from the R.O. systems

- b. Describe all wastewater-generating processes at the facility.

Raw water is pumped from the water wells to a reverse osmosis unit which takes out impurities in the water. The impurities (chlorides and total dissolved solids) are then pumped to a sump tank which is then pumped out through a discharge line to the outfall.

<sup>1</sup>

[https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES\\_industrial\\_wastewater\\_steps.html](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
N/A		

**Attachment:** Click to enter text.

- 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:** Click to enter text.

- 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 Maps

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.

N/A

- 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:** Click to enter text.

## 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)				
Associated Outfall Number				
Liner Type (C) (I) (S) or (A)				
Alt. Liner Attachment Reference				
Leak Detection System, Y/N				
Groundwater Monitoring Wells, Y/N				
Groundwater Monitoring Data Attachment				
Pond Bottom Located Above The Seasonal High-Water Table, Y/N				
Length (ft)				
Width (ft)				
Max Depth From Water Surface (ft), Not Including Freeboard				
Freeboard (ft)				
Surface Area (acres)				
Storage Capacity (gallons)				
40 CFR Part 257, Subpart D, Y/N				
Date of Construction				

**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/or 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)
1	28.158806	-97.00075

**Outfall Location Description**

Outfall No.	Location Description
1	From plant site via 2"pvc pipe to a tidal ditch then out to Copano Bay

**Description of Sampling Point(s) (if different from Outfall location)**

Outfall No.	Description of sampling point

**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)
1	.12	.12	.12	.12	04/08/24

**Outfall Discharge - Method and Measurement**

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
1	Y	N	Digital 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)
1	Y	Y	N	(8-16 per day)	31	12

## Outfall Wastestream Contributions

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

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:** Click to enter text.

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			
Boilers			

## 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: Click to enter text.
- 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.

## 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.

N/A

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: David Gill

Title: President

Signature: \_\_\_\_\_

Date: 6-25-24



# INDUSTRIAL WASTEWATER PERMIT APPLICATION

## WORKSHEET 1.0: EPA CATEGORICAL EFFLUENT GUIDELINES

This worksheet is **required** for all applications for TPDES permits for discharges of wastewaters subject to EPA categorical effluent limitation guidelines (ELGs).

### Item 1. Categorical Industries (Instructions, Page 53)

Is this facility subject to any 40 CFR categorical ELGs outlined on page 53 of the instructions?

☐ Yes ☒ No

If **no**, this worksheet is not required. If **yes**, provide the appropriate information below.

#### 40 CFR Effluent Guideline

Industry	40 CFR Part

### Item 2. Production/Process Data (Instructions, Page 54)

**NOTE:** For all TPDES permit applications requesting individual permit coverage for discharges of oil and gas exploration and production wastewater (discharges into or adjacent to water in the state, falling under the Oil and Gas Extraction Effluent Guidelines – 40 CFR Part 435), see Worksheet 12.0, Item 2 instead.

#### a. Production Data

Provide appropriate data for effluent guidelines with production-based effluent limitations.

#### Production Data

Subcategory	Actual Quantity/Day	Design Quantity/Day	Units

**b. Organic Chemicals, Plastics, and Synthetic Fibers Manufacturing Data (40 CFR Part 414)**

Provide each applicable subpart and the percent of total production. Provide data for metal-bearing and cyanide-bearing wastestreams, as required by 40 CFR Part 414, Appendices A and B.

**Percentage of Total Production**

Subcategory	Percent of Total Production	Appendix A and B - Metals	Appendix A - Cyanide

**c. Refineries (40 CFR Part 419)**

Provide the applicable subcategory and a brief justification.

Click to enter text.

**Item 3. Process/Non-Process Wastewater Flows (Instructions, Page 54)**

Provide a breakdown of wastewater flow(s) generated by the facility, including both process and non-process wastewater flow(s). Specify which wastewater flows are to be authorized for discharge under this permit and the disposal practices for wastewater flows, excluding domestic, which are not to be authorized for discharge under this permit.

Click to enter text.



**Item 4. New Source Determination (Instructions, Page 54)**

Provide a list of all wastewater-generating processes subject to EPA categorical ELGs, identify the appropriate guideline Part and Subpart, and provide the date the process/construction commenced.

**Wastewater Generating Processes Subject to Effluent Guidelines**

Process	EPA Guideline Part	EPA Guideline Subpart	Date Process/ Construction Commenced

# 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): 04/19/2024 - 05/08/2024  
Testing is attached
- 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:** [Click to enter text.](#)

### 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:** [Click to enter text.](#)

#### 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.: 1

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)	<1.00	<1.00	<1.00	<1.00
CBOD (5-day)	<1.00	<1.00	<1.00	<1.00
Chemical oxygen demand	524	223	138	271
Total organic carbon	4.64	4.45	6.39	4.74
Dissolved oxygen				
Ammonia nitrogen	0.656	0.695	0.639	0.922
Total suspended solids	7.90	9.65	8.13	8.63
Nitrate nitrogen				
Total organic nitrogen				
Total phosphorus	2.07	3.21	2.45	2.60
Oil and grease	<0.407	<0.398	<0.407	<0.407



Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Total residual chlorine				
Total dissolved solids	8470	9760	8930	11700
Sulfate	908	1050	1090	854
Chloride	4490	4490	1370	4850
Fluoride	<6.40	4.09	5.64	4.35
Total alkalinity (mg/L as CaCO3)	2070	2060	2450	2100
Temperature (°F)				
pH (standard units)	8.12	8.26	8.31	8.28

Table 2 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)
Aluminum, total	<0.0353	<0.0353	0.0412	<0.0353	2.5
Antimony, total	<0.00484	<0.00242	<0.00242	<0.00242	5
Arsenic, total	<0.00836	0.00608	<0.00418	0.00848	0.5
Barium, total	0.292	0.273	0.190	0.295	3
Beryllium, total	<0.000180	<0.000180	<0.000180	<0.000180	0.5
Cadmium, total	<0.000700	0.000524	0.000491	0.000439	1
Chromium, total	<0.000710	<0.000710	<0.000710	0.000868	3
Chromium, hexavalent	<0.00200	<0.00200	<0.00200	<0.00200	3
Chromium, trivalent	<0.000710	<0.000710	<0.000710	0.000868	N/A
Copper, total	<0.00364	<0.00364	<0.00364	<0.00364	2
Cyanide, available	<0.00430	<0.00430	<0.00430	<0.00430	2/10
Lead, total	0.0126	<0.00312	0.0116	0.00981	0.5
Mercury, total	ND	ND	ND	ND	0.005/0.0005
Nickel, total	0.0143	0.0143	0.0141	0.0168	2
Selenium, total	<0.0100	<0.00500	<0.00500	<0.00500	5
Silver, total	<0.000990	<0.000990	<0.000990	<0.000990	0.5
Thallium, total	<0.0155	<0.00775	<0.00775	<0.00775	0.5
Zinc, total	<0.0212	0.0206	0.0295	0.0377	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.: 1

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	<0.00709	<0.00709	<0.00709	<0.00709	50
Anthracene	<0.00111	<0.00111	<0.00111	<0.00111	10
Benzene	<0.00207	<0.00207	<0.00207	<0.00207	10
Benzidine	<0.00311	<0.00311	<0.00311	<0.00311	50
Benzo(a)anthracene	<0.000933	<0.000933	<0.000933	<0.000933	5
Benzo(a)pyrene	<0.000941	<0.000941	<0.000941	<0.000941	5
Bis(2-chloroethyl)ether	<0.00101	<0.00101	<0.00101	<0.00101	10
Bis(2-ethylhexyl)phthalate	<0.00318	<0.00318	<0.00318	<0.00318	10
Bromodichloromethane [Dichlorobromomethane]	<0.00179	<0.00179	<0.00179	<0.00179	10
Bromoform	<0.000960	<0.000960	<0.000960	<0.000960	10
Carbon tetrachloride	<0.00159	<0.00159	<0.00159	<0.00159	2
Chlorobenzene	<0.00276	<0.00276	<0.00276	<0.00276	10
Chlorodibromomethane [Dibromochloromethane]	<0.00327	<0.00327	<0.00327	<0.00327	10
Chloroform	<0.00212	<0.00212	<0.00212	<0.00212	10
Chrysene	<0.00102	<0.00102	<0.00102	<0.00102	5
m-Cresol [3-Methylphenol]	<0.000865	<0.000865	<0.000865	<0.000865	10
o-Cresol [2-Methylphenol]	<0.00150	<0.00150	<0.00150	<0.00150	10
p-Cresol [4-Methylphenol]	<0.000767	<0.000767	<0.000767	<0.000767	10
1,2-Dibromoethane					10
m-Dichlorobenzene [1,3-Dichlorobenzene]	<0.00419	<0.00419	<0.00419	<0.00419	10
o-Dichlorobenzene [1,2-Dichlorobenzene]	<0.00168	<0.00168	<0.00168	<0.00168	10
p-Dichlorobenzene [1,4-Dichlorobenzene]	<0.00184	<0.00184	<0.00184	<0.00184	10
3,3'-Dichlorobenzidine	<0.00265	<0.00265	<0.00265	<0.00265	5
1,2-Dichloroethane	<0.00195	<0.00195	<0.00195	<0.00195	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]	<0.00367	<0.00367	<0.00367	<0.00367	10
Dichloromethane [Methylene chloride]	<0.0117	<0.0117	<0.0117	<0.0117	20
1,2-Dichloropropane	<0.000804	<0.000804	<0.000804	<0.000804	10
1,3-Dichloropropene [1,3-Dichloropropylene]	<0.00372	<0.00372	<0.00372	<0.00372	10
2,4-Dimethylphenol	<0.00142	<0.00142	<0.00142	<0.00142	10
Di-n-Butyl phthalate	<0.00120	<0.00120	<0.00120	<0.00120	10
Ethylbenzene	<0.000401	<0.000401	<0.000401	<0.000401	10
Fluoride	<6.40	4.09	5.64	4.35	500
Hexachlorobenzene	<0.000972	<0.0000176	<0.0000176	<0.0000176	5
Hexachlorobutadiene	<0.00176	<0.00176	<0.00176	<0.00176	10
Hexachlorocyclopentadiene	<0.00117	<0.00117	<0.00117	<0.00117	10
Hexachloroethane	<0.00188	<0.00188	<0.00188	<0.00188	20
Methyl ethyl ketone	<0.000735	<0.000735	<0.000735	<0.000735	50
Nitrobenzene	<0.00124	<0.00124	<0.00124	<0.00124	10
N-Nitrosodiethylamine	<0.000925	<0.000925	<0.000925	<0.000925	20
N-Nitroso-di-n-butylamine					20
Nonylphenol	<0.00286	<0.00286	<0.00286	<0.00286	333
Pentachlorobenzene	<0.00134	<0.00134	<0.00134	<0.00134	20
Pentachlorophenol	<0.00210	<0.00210	<0.00210	<0.00210	5
Phenanthrene	<0.00113	<0.00113	<0.00113	<0.00113	10
Polychlorinated biphenyls (PCBs) (**)	<0.000173	<0.000173	<0.000173	<0.000173	0.2
Pyridine	<0.00117	<0.00117	<0.00117	<0.00117	20
1,2,4,5-Tetrachlorobenzene	<0.00132	<0.00132	<0.00132	<0.00132	20
1,1,2,2-Tetrachloroethane	<0.000596	<0.000596	<0.000596	<0.000596	10
Tetrachloroethene [Tetrachloroethylene]	<0.00486	<0.00486	<0.00486	<0.00486	10
Toluene	<0.00219	<0.00219	<0.00219	<0.00219	10
1,1,1-Trichloroethane	<0.00335	<0.00335	<0.00335	<0.00335	10
1,1,2-Trichloroethane	<0.00145	<0.00145	<0.00145	<0.00145	10
Trichloroethene [Trichloroethylene]	<0.00262	<0.00262	<0.00262	<0.00262	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	<0.00193	<0.00193	<0.00193	<0.00193	50
TTHM (Total trihalomethanes)					10
Vinyl chloride	<0.00466	<0.00466	<0.00466	<0.00466	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.: Click to enter text. Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1	Sample 2	Sample 3	Sample 4	MAL
Tributyltin (µg/L)					0.010
Enterococci (cfu or MPN/100 mL)					N/A
<i>E. coli</i> (cfu or MPN/100 mL)					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 ( <i>alpha</i> )					0.01
Endosulfan II ( <i>beta</i> )					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane ( <i>alpha</i> )					0.05
Hexachlorocyclohexane ( <i>beta</i> )					0.05
Hexachlorocyclohexane ( <i>gamma</i> ) [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.

TABLE 6 (Instructions, Page 59)

Completion of Table 6 is required for all external outfalls.

Table 6 for Outfall No.: 1

Samples are (check one): ☐ Composite ☒ Grab

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (µg/L)*
Bromide	<input type="checkbox"/>	<input checked="" type="checkbox"/>	87.8	34.3	17.6	15.8	400
Color (PCU)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<5.00	5.00	10.0	5.00	—
Nitrate-Nitrite (as N)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<0.0300	<0.0300	<0.0300	<0.0300	—
Sulfide (as S)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<0.0230	<0.0230	<0.0230	<0.0230	—
Sulfite (as SO <sub>3</sub> )	<input type="checkbox"/>	<input checked="" type="checkbox"/>					—
Surfactants	<input type="checkbox"/>	<input checked="" type="checkbox"/>					—
Boron, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2.65	2.71	2.15	<0.000680	20
Cobalt, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<0.00136	<0.000680	<0.000680	<0.00364	0.3
Iron, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.547	1.69	0.157	0.507	7
Magnesium, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>	175	173	119	181	20
Manganese, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.599	0.572	0.393	0.660	0.5
Molybdenum, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.165	0.158	0.132	0.151	1
Tin, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<0.00240	<0.00240	<0.00240	<0.00240	5
Titanium, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<0.00835	<0.00835	<0.00835	<0.00835	30



**TABLE 7 (Instructions, Page 60)**

Check the box next to any of the industrial categories applicable to this facility. If no categories are applicable, check N/A. If GC/MS testing is required, check the box provided to confirm the testing results for the appropriate parameters are provided with the application.

☒ N/A

**Table 7 for Applicable Industrial Categories**

Industrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/Neutrals Table 10	Pesticides Table 11
<input type="checkbox"/> Adhesives and Sealants		<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Aluminum Forming	467	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Auto and Other Laundries		<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> Battery Manufacturing	461	<input type="checkbox"/> Yes	No	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Coal Mining	434	No	No	No	No
<input type="checkbox"/> Coil Coating	465	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Copper Forming	468	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Electric and Electronic Components	469	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> Electroplating	413	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Explosives Manufacturing	457	No	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Foundries		<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Gum and Wood Chemicals - Subparts A,B,C,E	454	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No	No
<input type="checkbox"/> Gum and Wood Chemicals - Subparts D,F	454	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Inorganic Chemicals Manufacturing	415	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Iron and Steel Manufacturing	420	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Leather Tanning and Finishing	425	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Mechanical Products Manufacturing		<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Nonferrous Metals Manufacturing	421,471	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> Oil and Gas Extraction - Subparts A, D, E, F, G, H	435	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Ore Mining - Subpart B	440	No	<input type="checkbox"/> Yes	No	No
<input type="checkbox"/> Organic Chemicals Manufacturing	414	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> Paint and Ink Formulation	446,447	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Pesticides	455	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> Petroleum Refining	419	<input type="checkbox"/> Yes	No	No	No
<input type="checkbox"/> Pharmaceutical Preparations	439	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Photographic Equipment and Supplies	459	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Plastic and Synthetic Materials Manufacturing	414	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> Plastic Processing	463	<input type="checkbox"/> Yes	No	No	No
<input type="checkbox"/> Porcelain Enameling	466	No	No	No	No
<input type="checkbox"/> Printing and Publishing		<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> Pulp and Paperboard Mills - Subpart C	430	<input type="checkbox"/> *	<input type="checkbox"/> Yes	<input type="checkbox"/> *	<input type="checkbox"/> Yes
<input type="checkbox"/> Pulp and Paperboard Mills - Subparts F, K	430	<input type="checkbox"/> *	<input type="checkbox"/> Yes	<input type="checkbox"/> *	<input type="checkbox"/> *
<input type="checkbox"/> Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> *	<input type="checkbox"/> *
<input type="checkbox"/> Pulp and Paperboard Mills - Subparts I, J, L	430	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> *	<input type="checkbox"/> Yes
<input type="checkbox"/> Pulp and Paperboard Mills - Subpart E	430	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> *
<input type="checkbox"/> Rubber Processing	428	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Soap and Detergent Manufacturing	417	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Steam Electric Power Plants	423	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No	No
<input type="checkbox"/> Textile Mills (Not Subpart C)	410	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Timber Products Processing	429	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes

\* Test if believed present.



**TABLES 8, 9, 10, and 11 (Instructions, Page 60)**

Completion of Tables 8, 9, 10, and 11 **is required** as specified in Table 7 for all **external outfalls** that contain process wastewater.

Completion of Tables 8, 9, 10, and 11 **may be required** for types of industry not specified in Table 7 for specific parameters that are believed to be present in the wastewater.

Table 8 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)
Acrolein					50
Acrylonitrile					50
Benzene					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane					10
Chloroethane					50
2-Chloroethylvinyl ether					10
Chloroform					10
Dichlorobromomethane [Bromodichloromethane]					10
1,1-Dichloroethane					10
1,2-Dichloroethane					10
1,1-Dichloroethylene [1,1-Dichloroethene]					10
1,2-Dichloropropane					10
1,3-Dichloropropylene [1,3-Dichloropropene]					10
Ethylbenzene					10
Methyl bromide [Bromomethane]					50
Methyl chloride [Chloromethane]					50
Methylene chloride [Dichloromethane]					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethylene [Tetrachloroethene]					10
Toluene					10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethylene [Trichloroethene]					10
Vinyl chloride					10

\* Indicate units if different from µg/L.

Table 9 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)
2-Chlorophenol					10
2,4-Dichlorophenol					10
2,4-Dimethylphenol					10
4,6-Dinitro-o-cresol					50
2,4-Dinitrophenol					50
2-Nitrophenol					20
4-Nitrophenol					50
p-Chloro-m-cresol					10
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

\* Indicate units if different from µg/L.

Table 10 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)
Acenaphthene					10
Acenaphthylene					10
Anthracene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10
Benzo(ghi)perylene					20
Benzo(k)fluoranthene					5
Bis(2-chloroethoxy)methane					10



Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
Diethyl phthalate					10
Dimethyl phthalate					10
Di-n-butyl phthalate					10
2,4-Dinitrotoluene					10
2,6-Dinitrotoluene					10
Di-n-octyl phthalate					10
1,2-Diphenylhydrazine (as Azobenzene)					20
Fluoranthene					10
Fluorene					10
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
Indeno(1,2,3-cd)pyrene					5
Isophorone					10
Naphthalene					10
Nitrobenzene					10
N-Nitrosodimethylamine					50

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
N-Nitrosodi-n-propylamine					20
N-Nitrosodiphenylamine					20
Phenanthrene					10
Pyrene					10
1,2,4-Trichlorobenzene					10

\* Indicate units if different from µg/L.

Table 11 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
alpha-BHC [alpha-Hexachlorocyclohexane]					0.05
beta-BHC [beta-Hexachlorocyclohexane]					0.05
gamma-BHC [gamma-Hexachlorocyclohexane]					0.05
delta-BHC [delta-Hexachlorocyclohexane]					0.05
Chlordane					0.2
4,4'-DDT					0.02
4,4'-DDE					0.1
4,4'-DDD					0.1
Dieldrin					0.02
Endosulfan I (alpha)					0.01
Endosulfan II (beta)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Endrin aldehyde					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
PCB 1242					0.2
PCB 1254					0.2
PCB 1221					0.2
PCB 1232					0.2
PCB 1248					0.2



Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
PCB 1260					0.2
PCB 1016					0.2
Toxaphene					0.3

\* Indicate units if different from µg/L.

**Attachment:** Click to enter text.

#### TABLE 12 (DIOXINS/FURAN COMPOUNDS)

Complete of Table 12 **is required** for **external outfalls**, as directed below. (Instructions, Pages 59-60)

Indicate which compound(s) are manufactured or used at the facility and provide a brief description of the conditions of its/their presence at the facility (check all that apply).

- ☐ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CASRN 93-76-5
- ☐ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CASRN 93-72-1
- ☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CASRN 136-25-4
- ☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnell) CASRN 299-84-3
- ☐ 2,4,5-trichlorophenol (TCP) CASRN 95-95-4
- ☐ hexachlorophene (HCP) CASRN 70-30-4
- ☐ None of the above

Description: Click to enter text.

Does the applicant or anyone at the facility know or have any reason to believe that 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) or any congeners of TCDD may be present in the effluent proposed for discharge?

- ☐ Yes ☐ No

Description: Click to enter text.

If **yes** to either Items a or b, complete Table 12 as instructed.

Table 12 for Outfall No.: Click to enter text. Samples are (check one): ☐ Composite ☐ Grab

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
2,3,7,8-TCDD	1					10
1,2,3,7,8-PeCDD	1.0					50
2,3,7,8-HxCDDs	0.1					50
1,2,3,4,6,7,8-HpCDD	0.01					50



Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
2,3,7,8-TCDF	0.1					10
1,2,3,7,8-PeCDF	0.03					50
2,3,4,7,8-PeCDF	0.3					50
2,3,7,8-HxCDFs	0.1					50
2,3,4,7,8-HpCDFs	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						

**TABLE 13 (HAZARDOUS SUBSTANCES)**

Complete Table 13 **is required** for all **external outfalls** as directed below. (Instructions, Pages 60-61)

Are there any pollutants listed in the instructions (pages 55-62) believed present in the discharge?

☐ Yes ☐ No

Are there pollutants listed in Item 1.c. of Technical Report 1.0 which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

☐ Yes ☐ No

If **yes** to either Items a or b, complete Table 13 as instructed.

Table 13 for Outfall No.: [Click to enter text.](#) Samples are (check one): ☐ Composite ☐ Grab

Pollutant	CASRN	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	Analytical Method

# 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: 6 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):

<input type="checkbox"/> oil field activities	<input type="checkbox"/> urban runoff
<input type="checkbox"/> agricultural runoff	<input type="checkbox"/> septic tanks
<input type="checkbox"/> upstream discharges	<input type="checkbox"/> other, specify: <a href="#">Click to enter text.</a>

- b. Uses of water body observed or evidence of such uses (check all that apply):

<input type="checkbox"/> livestock watering	<input type="checkbox"/> industrial water supply
<input type="checkbox"/> non-contact recreation	<input type="checkbox"/> irrigation withdrawal
<input type="checkbox"/> domestic water supply	<input type="checkbox"/> navigation
<input type="checkbox"/> contact recreation	<input type="checkbox"/> picnic/park activities
<input type="checkbox"/> fishing	<input type="checkbox"/> other, specify: <a href="#">Click to enter text.</a>

- c. Description which best describes the aesthetics of the receiving water and the surrounding area (check only one):

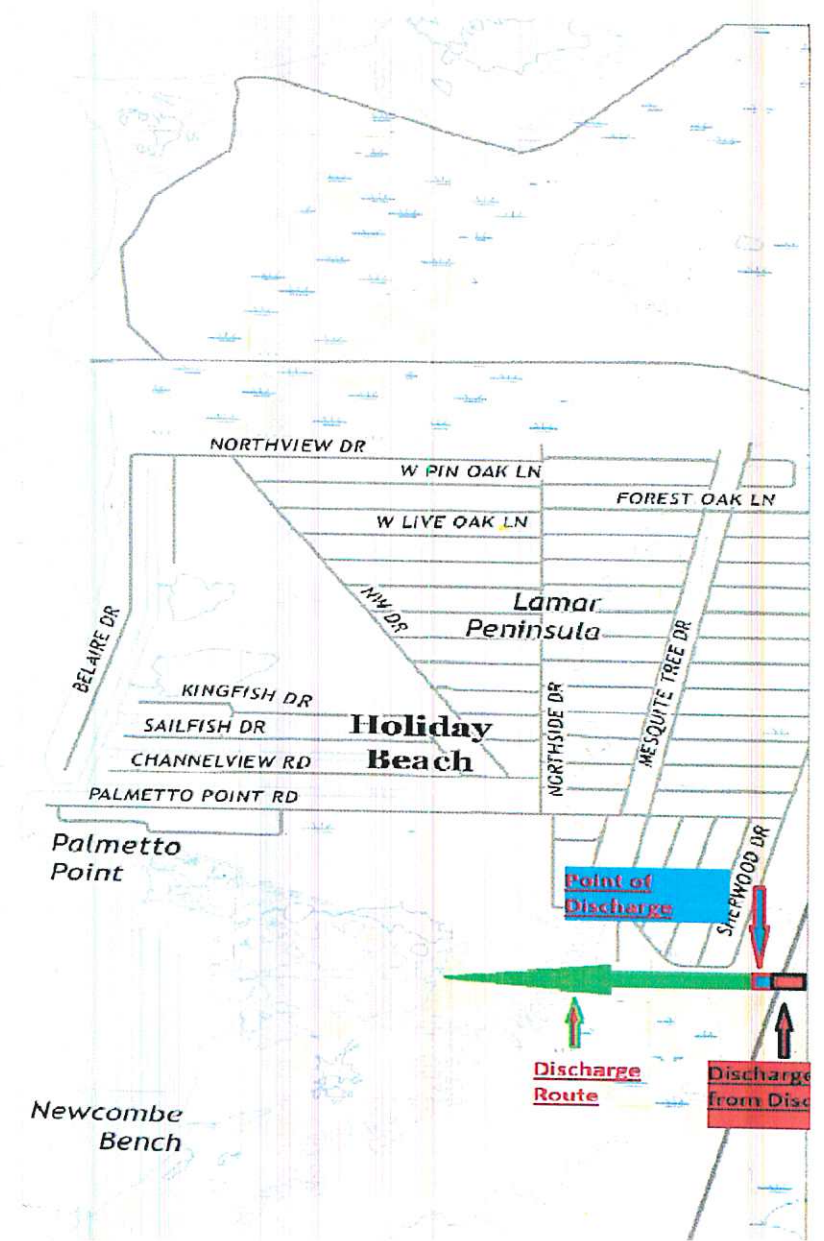
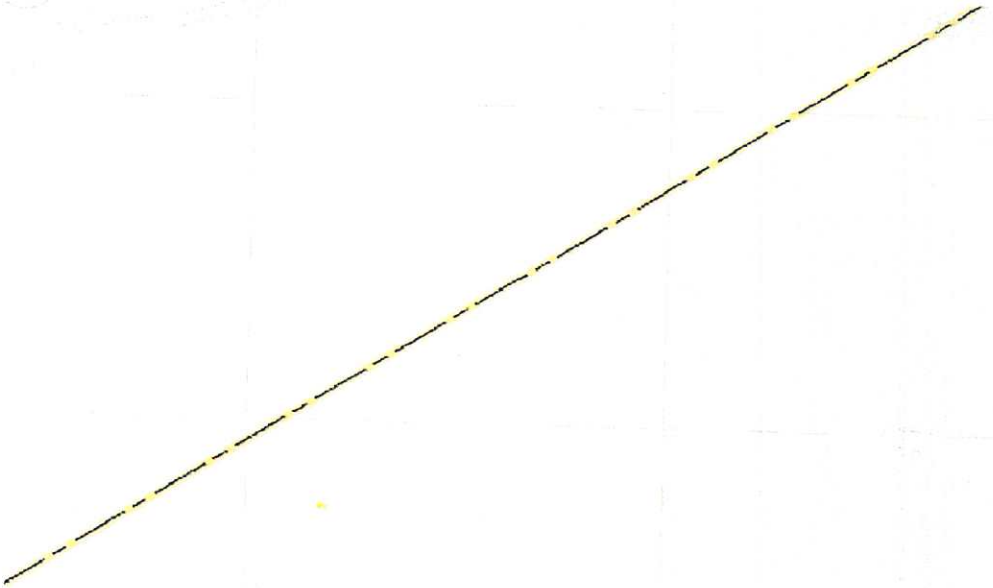
☐ **Wilderness:** outstanding natural beauty; usually wooded or un-pastured area: water clarity exceptional

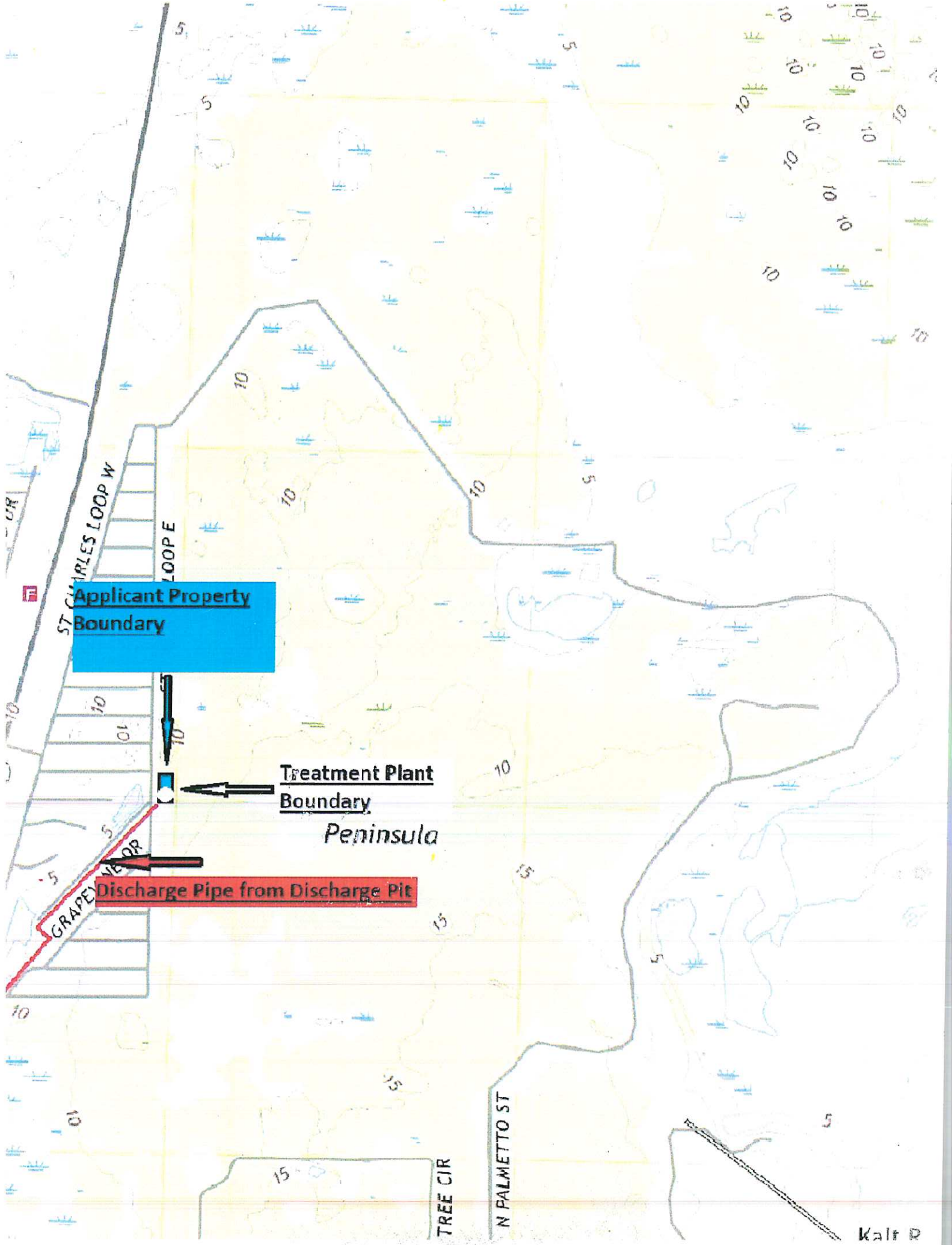
☐ **Natural Area:** trees or native vegetation common; some development evident (from fields, pastures, dwellings); water clarity discolored

☐ **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







**Applicant Property Boundary**

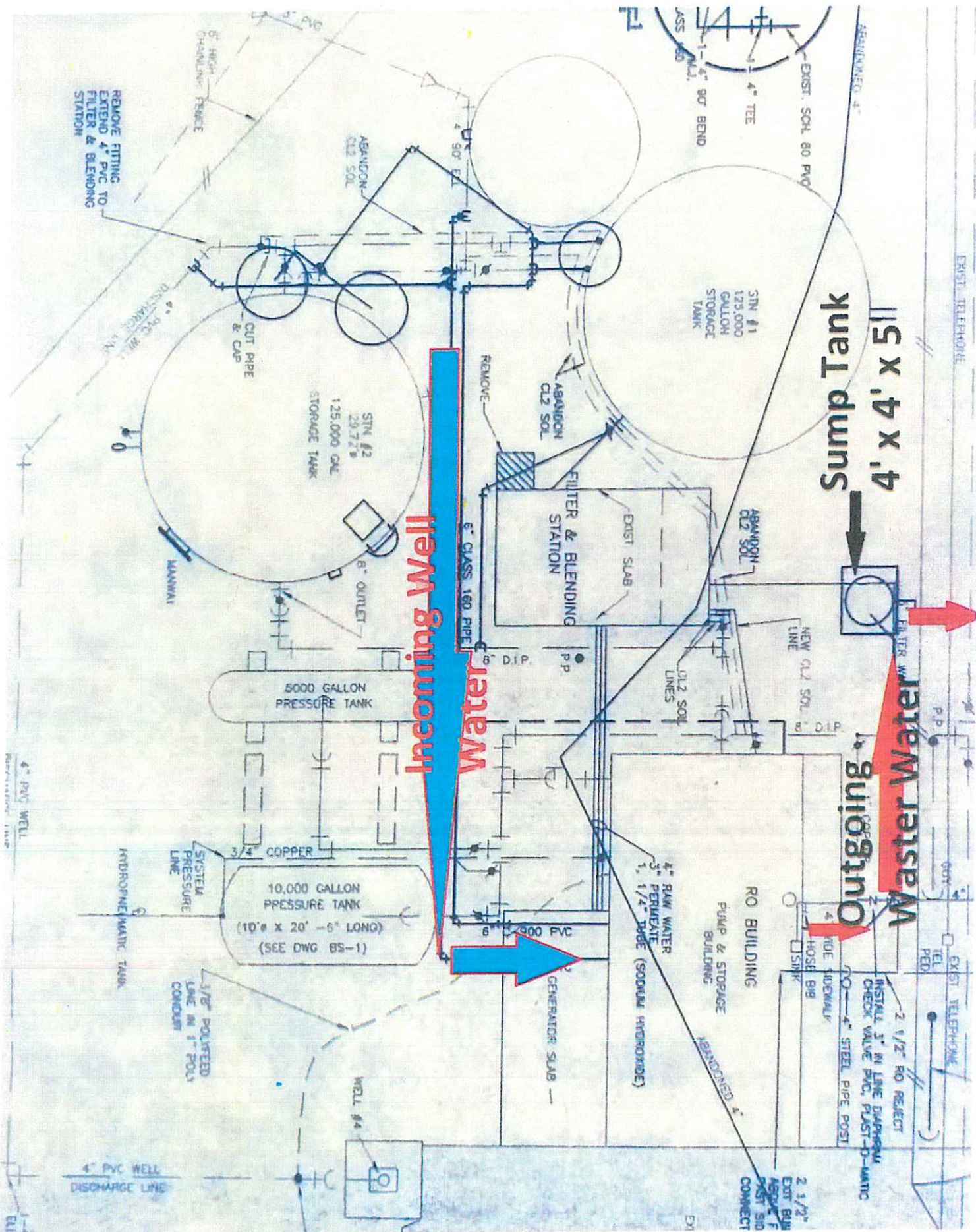
**Treatment Plant Boundary**

*Peninsula*

**Discharge Pipe from Discharge Pit**

Kalt R











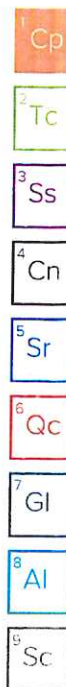






# ANALYTICAL REPORT

May 07, 2024



## Holiday Beach WSC

Sample Delivery Group: L1727407  
Samples Received: 04/19/2024  
Project Number:  
Description: Permit Renewal WK1 of 4  
Site: TX 0040015  
Report To: Vernon Hale  
PO Box 807  
Fulton, TX 78358

Entire Report Reviewed By:

Lori A Vahrenkamp  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

# TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
RO DISCHARGE L1727407-01	5
Qc: Quality Control Summary	11
Gravimetric Analysis by Method 2540C	11
Gravimetric Analysis by Method 2540D	12
Wet Chemistry by Method 1664A	13
Wet Chemistry by Method 2120B	14
Wet Chemistry by Method 2320B	15
Wet Chemistry by Method 300.0	16
Wet Chemistry by Method 3500Cr-B	19
Wet Chemistry by Method 351.2	20
Wet Chemistry by Method 353.2	21
Wet Chemistry by Method 4500CN-E	23
Wet Chemistry by Method 4500P-E	24
Wet Chemistry by Method 4500-S2 D	25
Wet Chemistry by Method 5210 B-2016	26
Wet Chemistry by Method 5220D	28
Wet Chemistry by Method 5310C	29
Wet Chemistry by Method 5540C	30
Wet Chemistry by Method SM 4500-H+B	31
Wet Chemistry by Method SM4500NH3H	32
Metals (ICP) by Method 200.7	33
Volatile Organic Compounds (GC/MS) by Method 624.1	37
Pesticides (GC) by Method EPA 608.3	40
Polychlorinated Biphenyls (GC) by Method EPA-608.3	43
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	44
Gl: Glossary of Terms	49
Al: Accreditations & Locations	50
Sc: Sample Chain of Custody	51

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
11	Qc
12	Gl
13	Al
14	Sc



# SAMPLE SUMMARY

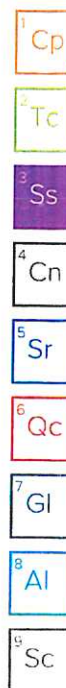
RO DISCHARGE L1727407-01 WW

Collected by  
Vernon H Hale

Collected date/time  
04/18/24 08:15

Received date/time  
04/19/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2272337	1	04/24/24 16:32	04/24/24 16:32	SKH	Allen, TX
Gravimetric Analysis by Method 2540C	WG2271435	1	04/21/24 10:10	04/21/24 12:26	QQT	Allen, TX
Gravimetric Analysis by Method 2540D	WG2271876	1	04/22/24 13:50	04/22/24 16:04	QQT	Allen, TX
Wet Chemistry by Method 1664A	WG2273058	1	04/24/24 14:16	04/25/24 08:09	TK	Allen, TX
Wet Chemistry by Method 2120B	WG2270866	1	04/19/24 20:01	04/19/24 20:01	EIG	Allen, TX
Wet Chemistry by Method 2320B	WG2273195	1	04/24/24 08:56	04/24/24 08:56	SEN	Allen, TX
Wet Chemistry by Method 300.0	WG2274988	100	04/26/24 20:14	04/26/24 20:14	DLH	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2275913	100	04/28/24 09:02	04/28/24 09:02	ASM	Mt. Juliet, TN
Wet Chemistry by Method 3500Cr-B	WG2271701	1	04/22/24 14:26	04/22/24 14:26	SMC	Allen, TX
Wet Chemistry by Method 351.2	WG2272289	1	04/23/24 09:57	04/23/24 18:50	EIG	Allen, TX
Wet Chemistry by Method 353.2	WG2270853	1	04/19/24 18:52	04/19/24 18:52	EIG	Allen, TX
Wet Chemistry by Method 353.2	WG2273710	1	04/24/24 16:54	04/24/24 16:54	EIG	Allen, TX
Wet Chemistry by Method 4500CN-E	WG2272257	1	04/23/24 09:00	04/23/24 18:28	KCM	Allen, TX
Wet Chemistry by Method 4500P-E	WG2273161	10	04/24/24 15:45	04/24/24 15:45	SMC	Allen, TX
Wet Chemistry by Method 4500-S2 D	WG2272522	1	04/23/24 15:48	04/23/24 15:48	EIG	Allen, TX
Wet Chemistry by Method 5210 B-2016	WG2270395	1	04/19/24 15:19	04/24/24 09:31	JBS	Allen, TX
Wet Chemistry by Method 5210 B-2016	WG2270400	1	04/19/24 16:23	04/24/24 10:29	JBS	Allen, TX
Wet Chemistry by Method 5220D	WG2271865	1	04/22/24 14:17	04/22/24 17:40	SEN	Allen, TX
Wet Chemistry by Method 5310C	WG2272477	1	04/23/24 15:08	04/23/24 15:08	EIG	Allen, TX
Wet Chemistry by Method 5540C	WG2270736	1	04/19/24 18:08	04/19/24 19:41	EIG	Allen, TX
Wet Chemistry by Method SM 4500-H+B	WG2274164	1	04/25/24 08:55	04/25/24 08:55	SEN	Allen, TX
Wet Chemistry by Method SM4500NH3H	WG2271845	1	04/22/24 16:33	04/22/24 16:33	EIG	Allen, TX
Metals (ICP) by Method 200.7	WG2272337	1	04/23/24 12:07	04/24/24 16:32	SKH	Allen, TX
Metals (ICP) by Method 200.7	WG2272337	1	04/23/24 12:07	04/26/24 14:32	SKH	Allen, TX
Metals (ICP) by Method 200.7	WG2272337	2	04/23/24 12:07	04/25/24 13:37	SKH	Allen, TX
Volatile Organic Compounds (GC/MS) by Method 624.1	WG2271797	1	04/22/24 15:21	04/22/24 15:21	ZST	Allen, TX
Pesticides (GC) by Method EPA 608.3	WG2272451	1	04/24/24 05:46	04/24/24 16:01	LTB	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method EPA-608.3	WG2272451	1	04/24/24 05:46	04/24/24 16:01	LTB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG2271723	1	04/22/24 10:57	04/23/24 20:20	XLY	Allen, TX
Subcontracted Analyses	WG2270701	1	04/26/24 00:00	04/26/24 00:00	JWW	Green Bay, WI 54302



# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Lori A Vahrenkamp  
Project Manager

## Project Narrative

L1727407 -01 contains subout data that is included after the chain of custody.

## Sample Delivery Group (SDG) Narrative

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
<a href="#">L1727407-01</a>	<a href="#">RO DISCHARGE</a>	3500Cr-B, 1664A

pH outside of method requirement.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
<a href="#">L1727407-01</a>	<a href="#">RO DISCHARGE</a>	624.1

Analyzed from headspace vial.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
<a href="#">L1727407-01</a>	<a href="#">RO DISCHARGE</a>	624.1

No extra volume received to perform Matrix Spike samples.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
<a href="#">L1727407-01</a>	<a href="#">RO DISCHARGE</a>	625.1

An aliquot for analysis was taken from the original container received due to volume requirements of the laboratory's procedure. Rinsing of the original sample container for inclusion in the sample extraction was not performed.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
<a href="#">L1727407-01</a>	<a href="#">RO DISCHARGE</a>	EPA 608.3, EPA-608.3





## RO DISCHARGE

Collected date/time: 04/18/24 08:15

## SAMPLE RESULTS - 01

L1727407

## Calculated Results

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chromium, Trivalent	<0.000710		0.000710	0.00300	1	04/24/2024 16:32	<a href="#">WG2272337</a>

## Gravimetric Analysis by Method 2540C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Total Dissolved Solids	8470			50.0	1	04/21/2024 12:26	<a href="#">WG2271435</a>

## Gravimetric Analysis by Method 2540D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Suspended Solids	7.90			2.50	1	04/22/2024 16:04	<a href="#">WG2271876</a>

## Wet Chemistry by Method 1664A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Oil & Grease (Hexane Extr)	<0.407		0.407	5.81	1	04/25/2024 08:09	<a href="#">WG2273058</a>

## Wet Chemistry by Method 2120B

Analyte	Result units	Qualifier	MDL units	RDL units	Dilution	Analysis date / time	Batch
Color	<5.00			5.00	1	04/19/2024 20:01	<a href="#">WG2270866</a>

## Sample Narrative:

L1727407-01 WG2270866: 8

## Wet Chemistry by Method 2320B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	2070		20.0	20.0	1	04/24/2024 08:56	<a href="#">WG2273195</a>
Alkalinity, Bicarbonate	2070		20.0	20.0	1	04/24/2024 08:56	<a href="#">WG2273195</a>
Alkalinity, Carbonate	<20.0		20.0	20.0	1	04/24/2024 08:56	<a href="#">WG2273195</a>
Alkalinity, Hydroxide	<20.0		20.0	20.0	1	04/24/2024 08:56	<a href="#">WG2273195</a>
Phenolphthalein Alkalinity	<20.0		20.0	20.0	1	04/24/2024 08:56	<a href="#">WG2273195</a>

## Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bromide	87.8	J	35.3	100	100	04/28/2024 09:02	<a href="#">WG2275913</a>
Chloride	4490		37.9	100	100	04/26/2024 20:14	<a href="#">WG2274988</a>
Fluoride	<6.40		6.40	15.0	100	04/26/2024 20:14	<a href="#">WG2274988</a>
Sulfate	908		59.4	500	100	04/26/2024 20:14	<a href="#">WG2274988</a>

## Wet Chemistry by Method 3500Cr-B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chromium, Hexavalent	<0.00200	T8	0.00200	0.00300	1	04/22/2024 14:26	<a href="#">WG2271701</a>

## Wet Chemistry by Method 351.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Petroleum Hydrogen, TKN	0.849		0.140	0.250	1	04/23/2024 18:50	<a href="#">WG2272289</a>



## RO DISCHARGE

Collected date/time: 04/18/24 08:15

## SAMPLE RESULTS - 01

L1727407

## Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0362	J	0.0300	0.0500	1	04/19/2024 18:52	<a href="#">WG2270853</a>
Nitrate-Nitrite	<0.0300		0.0300	0.0500	1	04/24/2024 16:54	<a href="#">WG2273710</a>
Nitrate	0.0362	J	0.0300	0.0500	1	04/19/2024 18:52	<a href="#">WG2270853</a>
Nitrite	<0.0300		0.0300	0.0500	1	04/19/2024 18:52	<a href="#">WG2270853</a>

## Wet Chemistry by Method 4500CN-E

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	<0.00430		0.00430	0.0100	1	04/23/2024 18:28	<a href="#">WG2272257</a>

## Wet Chemistry by Method 4500P-E

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Phosphorus, Total	2.07		0.152	0.500	10	04/24/2024 15:45	<a href="#">WG2273161</a>

## Wet Chemistry by Method 4500-S2 D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Sulfide	<0.0230		0.0230	0.100	1	04/23/2024 15:48	<a href="#">WG2272522</a>

## Wet Chemistry by Method 5210 B-2016

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
BOD	<1.00		1.00	1	1	04/24/2024 09:31	<a href="#">WG2270395</a>
CBOD	<1.00		1.00	1	1	04/24/2024 10:29	<a href="#">WG2270400</a>

## Wet Chemistry by Method 5220D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
COD	524		16.1	35.0	1	04/22/2024 17:40	<a href="#">WG2271865</a>

## Wet Chemistry by Method 5310C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4.64	J6	0.270	0.700	1	04/23/2024 15:08	<a href="#">WG2272477</a>

## Wet Chemistry by Method 5540C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
MBAS	<0.360		0.360	0.500	1	04/19/2024 19:41	<a href="#">WG2270736</a>

## Wet Chemistry by Method SM 4500-H+B

Analyte	Result su	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
pH	8.12	T8			1	04/25/2024 08:55	<a href="#">WG2274164</a>

## Sample Narrative:

L1727407-01 WG2274164: 8.12 at 20.4C

## Wet Chemistry by Method SM4500NH3H

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
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## RO DISCHARGE

Collected date/time: 04/18/24 08:15

## SAMPLE RESULTS - 01

L1727407

## Wet Chemistry by Method SM4500NH3H

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	0.656	B	0.0280	0.100	1	04/22/2024 16:33	WG2271845

## Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	<0.0353		0.0353	0.500	1	04/24/2024 16:32	WG2272337
Antimony	<0.00484	D1	0.00484	0.0500	2	04/25/2024 13:37	WG2272337
Arsenic	<0.00836	D1	0.00836	0.0400	2	04/25/2024 13:37	WG2272337
Barium	0.292		0.000490	0.0100	1	04/24/2024 16:32	WG2272337
Beryllium	<0.000180		0.000180	0.00100	1	04/24/2024 16:32	WG2272337
Boron	2.65		0.0186	0.100	1	04/24/2024 16:32	WG2272337
Cadmium	<0.000700	D1	0.000700	0.0100	2	04/25/2024 13:37	WG2272337
Chromium	<0.000710		0.000710	0.00700	1	04/24/2024 16:32	WG2272337
Cobalt	<0.00136	D1	0.00136	0.00500	2	04/25/2024 13:37	WG2272337
Copper	<0.00364		0.00364	0.0200	1	04/24/2024 16:32	WG2272337
Iron	0.547		0.0303	0.500	1	04/24/2024 16:32	WG2272337
Lead	0.0126	D1 J	0.00624	0.0200	2	04/25/2024 13:37	WG2272337
Magnesium	175	V	0.0434	1.00	1	04/24/2024 16:32	WG2272337
Manganese	0.599		0.00557	0.0500	1	04/24/2024 16:32	WG2272337
Molybdenum	0.165		0.00760	0.0300	1	04/24/2024 16:32	WG2272337
Nickel	0.0143	D1 J	0.00716	0.0200	2	04/25/2024 13:37	WG2272337
Selenium	<0.0100	D1	0.0100	0.0400	2	04/25/2024 13:37	WG2272337
Silver	<0.000990		0.000990	0.00500	1	04/26/2024 14:32	WG2272337
Thallium	<0.0155	D1	0.0155	0.0400	2	04/25/2024 13:37	WG2272337
Tin	<0.00480	D1	0.00480	0.0500	2	04/25/2024 13:37	WG2272337
Titanium	<0.00835		0.00835	0.100	1	04/24/2024 16:32	WG2272337
Zinc	<0.0212	D1	0.0212	0.0500	2	04/25/2024 13:37	WG2272337

## Volatile Organic Compounds (GC/MS) by Method 624.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	<0.00335		0.00335	0.00500	1	04/22/2024 15:21	WG2271797
1,1,2,2-Tetrachloroethane	<0.000596		0.000596	0.00500	1	04/22/2024 15:21	WG2271797
1,1,2-Trichloroethane	<0.00145		0.00145	0.00500	1	04/22/2024 15:21	WG2271797
1,1-Dichloroethane	<0.00292		0.00292	0.00500	1	04/22/2024 15:21	WG2271797
1,1-Dichloroethene	<0.00367		0.00367	0.00500	1	04/22/2024 15:21	WG2271797
1,2-Dichlorobenzene	<0.00172		0.00172	0.00200	1	04/22/2024 15:21	WG2271797
1,2-Dichloroethane	<0.00195		0.00195	0.00500	1	04/22/2024 15:21	WG2271797
1,2-Dichloropropane	<0.000804		0.000804	0.00200	1	04/22/2024 15:21	WG2271797
1,3-Dichlorobenzene	<0.00419		0.00419	0.00500	1	04/22/2024 15:21	WG2271797
1,4-Dichlorobenzene	<0.00173		0.00173	0.00200	1	04/22/2024 15:21	WG2271797
2-Chloroethyl vinyl ether	<0.00652		0.00652	0.0100	1	04/22/2024 15:21	WG2271797
Acrolein	<0.00544		0.00544	0.0100	1	04/22/2024 15:21	WG2271797
Acrylonitrile	<0.00709		0.00709	0.0100	1	04/22/2024 15:21	WG2271797
Benzene	<0.00207		0.00207	0.00500	1	04/22/2024 15:21	WG2271797
Bromodichloromethane	<0.00179		0.00179	0.00200	1	04/22/2024 15:21	WG2271797
Bromoform	<0.000960		0.000960	0.0100	1	04/22/2024 15:21	WG2271797
Bromomethane	<0.00347		0.00347	0.00500	1	04/22/2024 15:21	WG2271797
Carbon tetrachloride	<0.00159		0.00159	0.00200	1	04/22/2024 15:21	WG2271797
Chlorobenzene	<0.00276		0.00276	0.0100	1	04/22/2024 15:21	WG2271797
Chloroethane	<0.00296		0.00296	0.00500	1	04/22/2024 15:21	WG2271797
Chloroform	<0.00212		0.00212	0.00500	1	04/22/2024 15:21	WG2271797
Chloromethane	<0.00361		0.00361	0.00500	1	04/22/2024 15:21	WG2271797
is-1,2-Dichloroethene	<0.00113		0.00113	0.00500	1	04/22/2024 15:21	WG2271797
is-1,3-Dichloropropene	<0.00492		0.00492	0.0100	1	04/22/2024 15:21	WG2271797



## RO DISCHARGE

## SAMPLE RESULTS - 01

Collected date/time: 04/18/24 08:15

L1727407

## Volatile Organic Compounds (GC/MS) by Method 624.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dibromochloromethane	<0.00327		0.00327	0.00500	1	04/22/2024 15:21	WG2271797
Ethylbenzene	<0.000401		0.000401	0.00200	1	04/22/2024 15:21	WG2271797
Methylene Chloride	<0.0117		0.0117	0.0200	1	04/22/2024 15:21	WG2271797
Tetrachloroethene	<0.00486		0.00486	0.0100	1	04/22/2024 15:21	WG2271797
Toluene	<0.00219		0.00219	0.00500	1	04/22/2024 15:21	WG2271797
Total 1,3-Dichloropropene	<0.00372		0.00372	0.0100	1	04/22/2024 15:21	WG2271797
trans-1,2-Dichloroethene	<0.00501		0.00501	0.0100	1	04/22/2024 15:21	WG2271797
trans-1,3-Dichloropropene	<0.00460		0.00460	0.00500	1	04/22/2024 15:21	WG2271797
Trichloroethene	<0.00262		0.00262	0.00500	1	04/22/2024 15:21	WG2271797
Vinyl chloride	<0.00466		0.00466	0.00500	1	04/22/2024 15:21	WG2271797
(S) 1,2-Dichloroethane-d4	99.9			70.0-130		04/22/2024 15:21	WG2271797
(S) 4-Bromofluorobenzene	101			70.0-130		04/22/2024 15:21	WG2271797
(S) Toluene-d8	101			70.0-130		04/22/2024 15:21	WG2271797

## Pesticides (GC) by Method EPA 608.3

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aldrin	<0.0000198	J3 J6	0.0000198	0.0000500	1	04/24/2024 16:01	WG2272451
Alpha BHC	<0.0000172	J3 J6	0.0000172	0.0000500	1	04/24/2024 16:01	WG2272451
Beta BHC	<0.0000208	J3	0.0000208	0.0000500	1	04/24/2024 16:01	WG2272451
Delta BHC	<0.0000150	J3 J6	0.0000150	0.0000500	1	04/24/2024 16:01	WG2272451
Gamma BHC	<0.0000209	J3 J6	0.0000209	0.0000500	1	04/24/2024 16:01	WG2272451
Chlordane	<0.0000198		0.0000198	0.00500	1	04/24/2024 16:01	WG2272451
4,4-DDD	<0.0000177	J3 J6	0.0000177	0.0000500	1	04/24/2024 16:01	WG2272451
4,4-DDE	<0.0000154	J3 J6	0.0000154	0.0000500	1	04/24/2024 16:01	WG2272451
4,4-DDT	<0.0000198	J3 J6	0.0000198	0.0000500	1	04/24/2024 16:01	WG2272451
Dieldrin	<0.0000162	J3 J6	0.0000162	0.0000500	1	04/24/2024 16:01	WG2272451
Endosulfan I	<0.0000160	J3 J6	0.0000160	0.0000500	1	04/24/2024 16:01	WG2272451
Endosulfan II	<0.0000164	J3	0.0000164	0.0000500	1	04/24/2024 16:01	WG2272451
Endosulfan sulfate	<0.0000217	J3 J6	0.0000217	0.0000500	1	04/24/2024 16:01	WG2272451
Endrin	<0.0000161	J3 J6	0.0000161	0.0000500	1	04/24/2024 16:01	WG2272451
Endrin aldehyde	<0.0000237	J3 J6	0.0000237	0.0000500	1	04/24/2024 16:01	WG2272451
Endrin ketone	<0.0000219	J3 J6	0.0000219	0.0000500	1	04/24/2024 16:01	WG2272451
Heptachlor	<0.0000148	J3 J6	0.0000148	0.0000500	1	04/24/2024 16:01	WG2272451
Heptachlor epoxide	<0.0000183	J3 J6	0.0000183	0.0000500	1	04/24/2024 16:01	WG2272451
Hexachlorobenzene	<0.0000176	J3 J6	0.0000176	0.0000500	1	04/24/2024 16:01	WG2272451
Methoxychlor	<0.0000193	J3 J6	0.0000193	0.0000500	1	04/24/2024 16:01	WG2272451
Toxaphene	<0.000168		0.000168	0.000500	1	04/24/2024 16:01	WG2272451
gamma-Chlordane	<0.0000137	J3 J6	0.0000137	0.0000500	1	04/24/2024 16:01	WG2272451
alpha-Chlordane	<0.0000149	J3 J6	0.0000149	0.0000500	1	04/24/2024 16:01	WG2272451
(S) Decachlorobiphenyl	77.3			10.0-144		04/24/2024 16:01	WG2272451
(S) Tetrachloro-m-xylene	66.9			10.0-135		04/24/2024 16:01	WG2272451

## Polychlorinated Biphenyls (GC) by Method EPA-608.3

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
PCB 1016	<0.000270		0.000270	0.000500	1	04/24/2024 16:01	WG2272451
PCB 1221	<0.000270		0.000270	0.000500	1	04/24/2024 16:01	WG2272451
PCB 1232	<0.000270		0.000270	0.000500	1	04/24/2024 16:01	WG2272451
PCB 1242	<0.000270		0.000270	0.000500	1	04/24/2024 16:01	WG2272451
PCB 1248	<0.000173		0.000173	0.000500	1	04/24/2024 16:01	WG2272451
PCB 1254	<0.000173		0.000173	0.000500	1	04/24/2024 16:01	WG2272451
PCB 1260	<0.000173		0.000173	0.000500	1	04/24/2024 16:01	WG2272451
Total PCBs	<0.000173		0.000173	0.000500	1	04/24/2024 16:01	WG2272451
(S) Decachlorobiphenyl	79.1			10.0-144		04/24/2024 16:01	WG2272451



## RO DISCHARGE

Collected date/time: 04/18/24 08:15

## SAMPLE RESULTS - 01

L1727407

## Polychlorinated Biphenyls (GC) by Method EPA-608.3

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) Tetrachloro-m-xylene	70.5			10.0-135		04/24/2024 16:01	WG2272451

## Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4,5-Tetrachlorobenzene	<0.00132		0.00132	0.00250	1	04/23/2024 20:20	WG2271723
1,2,4-Trichlorobenzene	<0.00159		0.00159	0.00250	1	04/23/2024 20:20	WG2271723
1,2-Dichlorobenzene	<0.00168		0.00168	0.00250	1	04/23/2024 20:20	WG2271723
1,3-Dichlorobenzene	<0.00170		0.00170	0.00250	1	04/23/2024 20:20	WG2271723
1,4-Dichlorobenzene	<0.00184		0.00184	0.00250	1	04/23/2024 20:20	WG2271723
2,2-Oxybis(1-Chloropropane)	<0.00116		0.00116	0.00250	1	04/23/2024 20:20	WG2271723
2,4,5-Trichlorophenol	<0.00193		0.00193	0.00250	1	04/23/2024 20:20	WG2271723
2,4,6-Trichlorophenol	<0.00179		0.00179	0.00250	1	04/23/2024 20:20	WG2271723
2,4-Dichlorophenol	<0.000820		0.000820	0.00250	1	04/23/2024 20:20	WG2271723
2,4-Dimethylphenol	<0.00142		0.00142	0.00500	1	04/23/2024 20:20	WG2271723
2,4-Dinitrophenol	<0.00115		0.00115	0.00500	1	04/23/2024 20:20	WG2271723
2,4-Dinitrotoluene	<0.00265		0.00265	0.00500	1	04/23/2024 20:20	WG2271723
2,6-Dichlorophenol	<0.00107		0.00107	0.00250	1	04/23/2024 20:20	WG2271723
2,6-Dinitrotoluene	<0.00181		0.00181	0.00500	1	04/23/2024 20:20	WG2271723
2-Chloronaphthalene	<0.00143		0.00143	0.00250	1	04/23/2024 20:20	WG2271723
2-Chlorophenol	<0.000820		0.000820	0.00250	1	04/23/2024 20:20	WG2271723
2-Methylphenol	<0.000760		0.000760	0.00500	1	04/23/2024 20:20	WG2271723
2-Nitrophenol	<0.00169		0.00169	0.00250	1	04/23/2024 20:20	WG2271723
3&4-Methyl Phenol	<0.000767		0.000767	0.00250	1	04/23/2024 20:20	WG2271723
3,3-Dichlorobenzidine	<0.00265		0.00265	0.00500	1	04/23/2024 20:20	WG2271723
4,6-Dinitro-2-methylphenol	<0.00150		0.00150	0.00500	1	04/23/2024 20:20	WG2271723
4-Bromophenyl-phenylether	<0.00104		0.00104	0.00250	1	04/23/2024 20:20	WG2271723
4-Chloro-3-methylphenol	<0.000865		0.000865	0.00250	1	04/23/2024 20:20	WG2271723
4-Chlorophenyl-phenylether	<0.00140		0.00140	0.00250	1	04/23/2024 20:20	WG2271723
4-Nitrophenol	<0.00164		0.00164	0.00500	1	04/23/2024 20:20	WG2271723
Acenaphthene	<0.00134		0.00134	0.00250	1	04/23/2024 20:20	WG2271723
Acenaphthylene	<0.00134		0.00134	0.00250	1	04/23/2024 20:20	WG2271723
Acetophenone	<0.000788		0.000788	0.00250	1	04/23/2024 20:20	WG2271723
Alpha-Terpineol	<0.000696		0.000696	0.00250	1	04/23/2024 20:20	WG2271723
Aniline	<0.000536		0.000536	0.00250	1	04/23/2024 20:20	WG2271723
Anthracene	<0.00111		0.00111	0.00250	1	04/23/2024 20:20	WG2271723
Atrazine	<0.00167		0.00167	0.00250	1	04/23/2024 20:20	WG2271723
Benzidine	<0.00311		0.00311	0.0100	1	04/23/2024 20:20	WG2271723
Benzo(a)anthracene	<0.000933		0.000933	0.00250	1	04/23/2024 20:20	WG2271723
Benzo(a)pyrene	<0.000941		0.000941	0.00250	1	04/23/2024 20:20	WG2271723
Benzo(b)fluoranthene	<0.00102		0.00102	0.00250	1	04/23/2024 20:20	WG2271723
Benzo(g,h,i)perylene	<0.00101		0.00101	0.00250	1	04/23/2024 20:20	WG2271723
Benzo(k)fluoranthene	<0.000934		0.000934	0.00250	1	04/23/2024 20:20	WG2271723
Benzoic acid	<0.00657		0.00657	0.0100	1	04/23/2024 20:20	WG2271723
Benzylbutyl phthalate	<0.00143		0.00143	0.00250	1	04/23/2024 20:20	WG2271723
Bis(2-chloroethoxy)methane	<0.000991		0.000991	0.00250	1	04/23/2024 20:20	WG2271723
Bis(2-chloroethyl)ether	<0.00101		0.00101	0.00250	1	04/23/2024 20:20	WG2271723
Bis(2-chloroisopropyl)ether	<0.00116		0.00116	0.00250	1	04/23/2024 20:20	WG2271723
Bis(2-Ethylhexyl)phthalate	<0.00318		0.00318	0.00500	1	04/23/2024 20:20	WG2271723
Carbazole	<0.00106		0.00106	0.00250	1	04/23/2024 20:20	WG2271723
Chrysene	<0.00102		0.00102	0.00250	1	04/23/2024 20:20	WG2271723
Di-n-butyl phthalate	<0.00120		0.00120	0.00250	1	04/23/2024 20:20	WG2271723
Di-n-octyl phthalate	<0.00174		0.00174	0.00250	1	04/23/2024 20:20	WG2271723
Di-benz(a,h)anthracene	<0.00110		0.00110	0.00250	1	04/23/2024 20:20	WG2271723
Di-benzofuran	<0.00120		0.00120	0.00250	1	04/23/2024 20:20	WG2271723
Diethyl phthalate	<0.000915		0.000915	0.00250	1	04/23/2024 20:20	WG2271723





## RO DISCHARGE

## SAMPLE RESULTS - 01

Collected date/time: 04/18/24 08:15

L1727407

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dimethyl phthalate	<0.000878		0.000878	0.00250	1	04/23/2024 20:20	WG2271723
Fluoranthene	<0.00114		0.00114	0.00250	1	04/23/2024 20:20	WG2271723
Fluorene	<0.00131		0.00131	0.00250	1	04/23/2024 20:20	WG2271723
Hexachloro-1,3-butadiene	<0.00176		0.00176	0.00250	1	04/23/2024 20:20	WG2271723
Hexachlorobenzene	<0.000972		0.000972	0.00250	1	04/23/2024 20:20	WG2271723
Hexachlorocyclopentadiene	<0.00117		0.00117	0.0100	1	04/23/2024 20:20	WG2271723
Hexachloroethane	<0.00188		0.00188	0.00250	1	04/23/2024 20:20	WG2271723
1,2-Diphenylhydrazine	<0.00124	N2	0.00124	0.00250	1	04/23/2024 20:20	WG2271723
Indeno(1,2,3-cd)pyrene	<0.000984		0.000984	0.00250	1	04/23/2024 20:20	WG2271723
Isophorone	<0.00183		0.00183	0.00250	1	04/23/2024 20:20	WG2271723
n-Decane	<0.00158		0.00158	0.00250	1	04/23/2024 20:20	WG2271723
n-Nitrosodi-n-butylamine	<0.000735		0.000735	0.00250	1	04/23/2024 20:20	WG2271723
n-Nitrosodi-n-propylamine	<0.00107		0.00107	0.00250	1	04/23/2024 20:20	WG2271723
n-Nitrosodiethylamine	<0.000925		0.000925	0.00250	1	04/23/2024 20:20	WG2271723
n-Nitrosodimethylamine	<0.000651		0.000651	0.00250	1	04/23/2024 20:20	WG2271723
n-Nitrosodiphenylamine	<0.000829		0.000829	0.00250	1	04/23/2024 20:20	WG2271723
n-Octadecane	<0.00128		0.00128	0.00250	1	04/23/2024 20:20	WG2271723
Naphthalene	<0.00200		0.00200	0.00250	1	04/23/2024 20:20	WG2271723
Nitrobenzene	<0.00124		0.00124	0.00250	1	04/23/2024 20:20	WG2271723
Nonylphenol	<0.00286		0.00286	0.00500	1	04/23/2024 20:20	WG2271723
Pentachlorobenzene	<0.00134		0.00134	0.00250	1	04/23/2024 20:20	WG2271723
Pentachlorophenol	<0.00210		0.00210	0.00500	1	04/23/2024 20:20	WG2271723
Phenanthrene	<0.00113		0.00113	0.00250	1	04/23/2024 20:20	WG2271723
Phenol	<0.000967		0.000967	0.00250	1	04/23/2024 20:20	WG2271723
Pyrene	<0.00115		0.00115	0.00250	1	04/23/2024 20:20	WG2271723
Pyridine	<0.00117		0.00117	0.00250	1	04/23/2024 20:20	WG2271723
Total Cresols	<0.00153		0.00153	0.00750	1	04/23/2024 20:20	WG2271723
(S) 2,4,6-Tribromophenol	60.0			29.0-132		04/23/2024 20:20	WG2271723
(S) 2-Fluorobiphenyl	60.0			26.0-102		04/23/2024 20:20	WG2271723
(S) 2-Fluorophenol	31.3			10.0-66.0		04/23/2024 20:20	WG2271723
(S) Nitrobenzene-d5	59.3			15.0-106		04/23/2024 20:20	WG2271723
(S) p-Terphenyl-d14	73.7			10.0-120		04/23/2024 20:20	WG2271723
(S) Phenol-D6	23.3			10.0-54.0		04/23/2024 20:20	WG2271723



## Method Blank (MB)

(MB) R4060512-1 04/21/24 12:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Total Dissolved Solids	<25.0	25.0	25.0	25.0

## L1726395-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1726395-01 04/21/24 12:26 • (DUP) R4060512-3 04/21/24 12:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Dissolved Solids	2790	2680	1	4.02		10

## L1726920-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1726920-01 04/21/24 12:26 • (DUP) R4060512-4 04/21/24 12:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Dissolved Solids	644	626	1	2.83		10

## Laboratory Control Sample (LCS)

(LCS) R4060512-2 04/21/24 12:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Dissolved Solids	2410	2500	104	85.0-115	



WG2271876

Gravimetric Analysis by Method 2540D

QUALITY CONTROL SUMMARY

L1727407-01

Method Blank (MB)

(MB) R4060972-1 04/22/24 16:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	<2.50		2.50	2.50

L1726583-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1726583-01 04/22/24 16:04 • (DUP) R4060972-3 04/22/24 16:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	833	793	1	4.92		10

L1726916-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1726916-02 04/22/24 16:04 • (DUP) R4060972-4 04/22/24 16:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	613	693	1	12.2	P1	10

Laboratory Control Sample (LCS)

(LCS) R4060972-2 04/22/24 16:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	928	928	100	85.0-115	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1727407

DATE/TIME:  
05/07/24 08:32

PAGE:  
12 of 72



## Method Blank (MB)

(MB) R4062116-1 04/25/24 08:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Oil & Grease (Hexane Extr)	<0.350		0.350	5.00

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4062116-2 04/25/24 08:09 • (LCSD) R4062116-3 04/25/24 08:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Oil & Grease (Hexane Extr)	40.0	34.0	33.7	85.0	84.3	78.0-114			0.886	18

## L1727480-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1727480-02 04/25/24 08:09 • (MS) R4062116-4 04/25/24 08:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Oil & Grease (Hexane Extr)	40.0	2.40	41.1	96.8	1	78.0-114	

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

WG2270866

Wet Chemistry by Method 2120B

Method Blank (MB)

(MB) R4060002-1 04/19/24 20:01

Analyte	MB Result units	MB Qualifier	MB MDL units	MB RDL units
Color	<5.00		5.00	5.00

Sample Narrative:  
BLANK: 7

L1727407-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1727407-01 04/19/24 20:01 • (DUP) R4060002-2 04/19/24 20:01

Analyte	Original Result units	DUP Result units	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Color	<5.00	<5.00	1	0.000		20

Sample Narrative:  
OS: 8  
DUP: 8

QUALITY CONTROL SUMMARY

L1727407-01

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc



Method Blank (MB)

(MB) R4061422-1 04/24/24 08:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	<20.0		20.0	20.0
Alkalinity,Bicarbonate	<20.0		20.0	20.0
Alkalinity,Carbonate	<20.0		20.0	20.0
Alkalinity-Hydroxide	<20.0		20.0	20.0
Phenolphthalein Alkalinity	<20.0		20.0	20.0

L1725021-03 Original Sample (OS) • Duplicate (DUP)

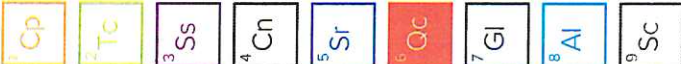
(OS) L1725021-03 04/24/24 08:56 • (DUP) R4061422-3 04/24/24 08:56

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	28.0	26.0	1	7.41		20

Laboratory Control Sample (LCS)

(LCS) R4061422-2 04/24/24 08:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	250	240	96.0	90.0-110	



WG2274988

Wet Chemistry by Method 300.0

Method Blank (MB)

(MB) R4062914-1 04/26/24 14:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.402		0.379	1.00
Fluoride	<0.0640		0.0640	0.150
Sulfate	<0.594		0.594	5.00

L1726309-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1726309-01 04/26/24 15:10 • (DUP) R4062914-3 04/26/24 15:23

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	48.7	47.0	1	3.51		15
Fluoride	0.134	<0.0640	1	200	P1	15

L1727399-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1727399-08 04/26/24 19:06 • (DUP) R4062914-6 04/26/24 19:47

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	75.0	74.8	1	0.322		15
Fluoride	1.09	1.08	1	0.718		15
Sulfate	148	148	1	0.127		15

Laboratory Control Sample (LCS)

(LCS) R4062914-2 04/26/24 14:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.4	96.1	90.0-110	
Fluoride	8.00	8.29	104	90.0-110	
Sulfate	40.0	40.5	101	90.0-110	

Sample Narrative:

LCS: Not reporting EPA 300.0 for NO3

ACCOUNT:  
Holiday Beach WSC

PROJECT:

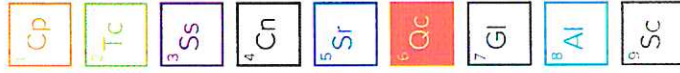
SDG:  
L1727407

DATE/TIME:  
05/07/24 08:32

PAGE:  
16 of 72

QUALITY CONTROL SUMMARY

L1727407-01



## L1726309-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1726309-01 04/26/24 15:10 • (MS) R4062914-4 04/26/24 15:35 • (MSD) R4062914-5 04/26/24 15:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	48.7	79.7	80.1	77.4	78.5	1	80.0-120	J6	J6	0.556	15
Fluoride	8.00	0.134	7.91	8.05	97.2	98.9	1	80.0-120			1.69	15

## Sample Narrative:

MS: CL spike failed due to sample matrix

MSD: CL spike failed due to sample matrix

## L1727399-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1727399-08 04/26/24 19:06 • (MS) R4062914-7 04/26/24 20:00

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	75.0	96.0	52.4	1	80.0-120	J6
Fluoride	8.00	1.09	9.49	105	1	80.0-120	
Sulfate	40.0	148	162	35.6	1	80.0-120	J6

## Sample Narrative:

MS: CL/NO3/SO4 spike failed due to sample matrix

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1727407DATE/TIME:  
05/07/24 08:32PAGE:  
17 of 72



WG2275913

Wet Chemistry by Method 300.0

# QUALITY CONTROL SUMMARY

L1727407-01

## Method Blank (MB)

(MB) R4066125-1 04/27/24 11:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Bromide	<0.353		0.353	1.00

## Laboratory Control Sample (LCS)

(LCS) R4066125-2 04/27/24 11:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromide	40.0	38.7	96.9	90.0-110	

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

Method Blank (MB)

(MB) R4060507-1 04/22/24 14:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chromium, Hexavalent	<0.00200		0.00200	0.00300

Laboratory Control Sample (LCS)

(LCS) R4060507-2 04/22/24 14:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chromium, Hexavalent	0.200	0.198	99.0	85.0-115	

L1725795-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1725795-01 04/22/24 14:25 • (MS) R4060507-3 04/22/24 14:26 • (MSD) R4060507-4 04/22/24 14:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium, Hexavalent	0.200	0.0258	0.214	0.213	94.2	93.8	1	10.0-120		0.401		20

Sample Narrative:

OS: Sample preserved in lab w/in 24hrs of collection.



WG2272289

Wet Chemistry by Method 351.2

QUALITY CONTROL SUMMARY

L1727407-01

Method Blank (MB)

(MB) R4061317-1 04/23/24 18:40					
Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l	
Kjeldahl Nitrogen, TKN	<0.140		0.140	0.250	

Laboratory Control Sample (LCS)

(LCS) R4061317-2 04/23/24 18:41					
Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Kjeldahl Nitrogen, TKN	4.00	4.16	104	90.0-110	

L1726395-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1726395-01 04/23/24 18:48 • (MS) R4061317-3 04/23/24 18:54 • (MSD) R4061317-4 04/23/24 18:56											
Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD Limits %
Kjeldahl Nitrogen, TKN	4.00	1.83	6.19	6.01	109	105	1	90.0-110		2.95	20

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc



Method Blank (MB)

(MB) R4060003-1 04/19/24 18:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	<0.0300		0.0300	0.0500
Nitrite	<0.0300		0.0300	0.0500

Laboratory Control Sample (LCS)

(LCS) R4060003-2 04/19/24 18:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.57	103	90.0-110	
Nitrite	2.50	2.61	104	90.0-110	

L1727483-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1727483-01 04/19/24 18:54 • (MS) R4060003-3 04/19/24 18:58 • (MSD) R4060003-4 04/19/24 18:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	0.276	2.81	2.79	101	101	1	90.0-110			0.714	20
Nitrite	2.50	<0.0300	2.60	2.59	104	104	1	90.0-110			0.385	20

WG2273710

Wet Chemistry by Method 353.2

# QUALITY CONTROL SUMMARY

L1727407-01

## Method Blank (MB)

(MB) R4061893-1 04/24/24 16:36

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Nitrate-Nitrite	mg/l	mg/l	mg/l	mg/l
	<0.0300	0.0300	0.0300	0.0500

## Laboratory Control Sample (LCS)

(LCS) R4061893-2 04/24/24 16:41

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Nitrate-Nitrite	mg/l	mg/l	%	%	
	2.50	2.61	104	90.0-110	

## L1726523-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1726523-05 04/24/24 16:42 • (MS) R4061893-3 04/24/24 16:59 • (MSD) R4061893-4 04/24/24 17:00

Analyte	Spike Amount	Original Result	MS Result	MSD Result	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Nitrate-Nitrite	mg/l	mg/l	mg/l	mg/l		%			%	%
	2.50	0.108	2.69	2.67	1	90.0-110			0.746	20

## L1727062-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1727062-01 04/24/24 16:47 • (MS) R4061893-5 04/24/24 17:01 • (MSD) R4061893-6 04/24/24 17:02

Analyte	Spike Amount	Original Result	MS Result	MSD Result	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Nitrate-Nitrite	mg/l	mg/l	mg/l	mg/l		%			%	%
	2.50	0.397	2.97	2.97	1	90.0-110			0.000	20

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1727407

DATE/TIME:  
05/07/24 08:32

PAGE:  
22 of 72

## Method Blank (MB)

(MB) R4061162-1 04/23/24 18:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	<0.00430		0.00430	0.0100

## Laboratory Control Sample (LCS)

(LCS) R4061162-2 04/23/24 18:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.0973	97.3	85.0-115	

## L1726902-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1726902-03 04/23/24 18:28 • (MS) R4061162-3 04/23/24 18:28 • (MSD) R4061162-4 04/23/24 18:28

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	<0.00430	0.0929	0.0888	92.9	88.8	1	85.0-115			4.45	20

## L1727399-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1727399-04 04/23/24 18:28 • (MS) R4061162-5 04/23/24 18:28 • (MSD) R4061162-6 04/23/24 18:28

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	<0.00430	0.0912	0.0939	91.2	93.9	1	85.0-115			2.91	20



WG2273161

Wet Chemistry by Method 4500P-E

# QUALITY CONTROL SUMMARY

L1727407-01

## Method Blank (MB)

(MB) R4061625-1 04/24/24 15:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phosphorus,Total	<0.0152		0.0152	0.0500

## Laboratory Control Sample (LCS)

(LCS) R4061625-2 04/24/24 15:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phosphorus,Total	0.500	0.517	103	80.0-120	

## L1727446-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1727446-01 04/24/24 15:45 • (MS) R4061625-3 04/24/24 15:46 • (MSD) R4061625-4 04/24/24 15:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Phosphorus,Total	0.500	0.0313	0.554	0.506	111	101	1	80.0-120			9.02	20

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

## Method Blank (MB)

(MB) R4061314-1 04/23/24 15:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Sulfide	<0.0230		0.0230	0.100

## Laboratory Control Sample (LCS)

(LCS) R4061314-2 04/23/24 15:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfide	0.800	0.848	106	80.0-120	

## L1728124-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728124-01 04/23/24 15:53 • (MS) R4061314-3 04/23/24 15:53 • (MSD) R4061314-4 04/23/24 15:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfide	0.800	<0.0230	0.793	0.802	99.1	100	1	80.0-120			1.16	20

## L1728129-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728129-01 04/23/24 15:53 • (MS) R4061314-5 04/23/24 15:53 • (MSD) R4061314-6 04/23/24 15:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfide	0.800	<0.0230	0.737	0.729	92.2	91.2	1	80.0-120			1.10	20

WG2270395

Wet Chemistry by Method 5210 B-2016

## QUALITY CONTROL SUMMARY

L1727407-01

### Method Blank (MB)

(MB) R4061331-1 04/24/24 09:03				
Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
BOD	<0.200		0.200	0.200

### L1727354-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1727354-01 04/24/24 09:12 • (DUP) R4061331-3 04/24/24 09:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
BOD	9.80	9.40	1	4.17		20

### L1727354-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1727354-04 04/24/24 09:21 • (DUP) R4061331-4 04/24/24 09:51

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
BOD	102	104	1	1.46		20

### Laboratory Control Sample (LCS)

(LCS) R4061331-2 04/24/24 09:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
BOD	198	222	112	85-115	

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1727407

DATE/TIME:

05/07/24 08:32

PAGE:

26 of 72



## Method Blank (MB)

(MB) R4061409-1 04/24/24 10:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
CBOD	<0.200		0.200	0.200

## L1727441-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1727441-02 04/24/24 10:51 • (DUP) R4061409-3 04/24/24 11:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
CBOD	7.07	6.75	1	4.63		20

## L1727452-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1727452-02 04/24/24 11:08 • (DUP) R4061409-4 04/24/24 11:14

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
CBOD	1.66	1.65	1	0.604		20

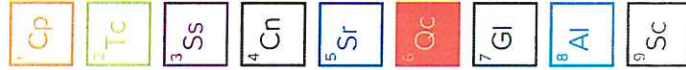
## Laboratory Control Sample (LCS)

(LCS) R4061409-2 04/24/24 10:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
CBOD	198	224	113	85-115	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1727407DATE/TIME:  
05/07/24 08:32PAGE:  
27 of 72

WG2271865

Wet Chemistry by Method 5220D

# QUALITY CONTROL SUMMARY

L1727407-01

## Method Blank (MB)

(MB) R4060638-1 04/22/24 17:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
COD	<16.1		16.1	35.0

## Laboratory Control Sample (LCS)

(LCS) R4060638-2 04/22/24 17:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
COD	500	514	103	80.0-120	

## L1725797-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1725797-01 04/22/24 17:28 • (MS) R4060638-3 04/22/24 17:40 • (MSD) R4060638-4 04/22/24 17:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
COD	500	87.8	541	549	90.6	92.3	1	80.0-120			1.53	20

## L1726128-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1726128-01 04/22/24 17:36 • (MS) R4060638-5 04/22/24 17:40 • (MSD) R4060638-6 04/22/24 17:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
COD	500	217	673	641	91.1	84.8	1	80.0-120			4.77	20

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1727407

DATE/TIME:  
05/07/24 08:32

PAGE:  
28 of 72

## Method Blank (MB)

(MB) R4061380-1 04/23/24 14:17

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TOC (Total Organic Carbon)	<0.270		0.270	0.700

## Laboratory Control Sample (LCS)

(LCS) R4061380-2 04/23/24 14:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	10.0	10.2	102	90 0-110	

## L1727407-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1727407-01 04/23/24 15:08 • (MS) R4061380-3 04/23/24 16:09 • (MSD) R4061380-4 04/23/24 16:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	MSD Result mg/l	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	10.0	4.64	12.4	77.1	13.1	84.9	1	80.0-120	J6		6.12	20

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1727407

DATE/TIME:

05/07/24 08:32

PAGE:

29 of 72



WG2270736

Wet Chemistry by Method 5540C

QUALITY CONTROL SUMMARY

L1727407-01

Method Blank (MB)

(MB) R4060001-1 04/19/24 19:41		MB Result		MB Qualifier		MB MDL		MB RDL	
Analyte	mg/l					mg/l		mg/l	
MBAS	<0.360					0.360		0.500	

Laboratory Control Sample (LCS)

(LCS) R4060001-2 04/19/24 19:41		Spike Amount		LCS Result		LCS Rec.		Rec. Limits		LCS Qualifier	
Analyte	mg/l			mg/l		%		%			
MBAS	1.00			1.06		106		80.0-120			

L1727407-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1727407-01 04/19/24 19:41 • (MS) R4060001-3 04/19/24 19:41 • (MSD) R4060001-4 04/19/24 19:41																				
Analyte	Spike Amount		Original Result		MS Result		MSD Result		MS Rec.		MSD Rec.		Dilution	Rec. Limits	MS Qualifier		MSD Qualifier		RPD	RPD Limits
	mg/l		mg/l		mg/l		mg/l		%		%				%		%			
MBAS	1.00		<0.360		1.18		1.20		118		120		1	80.0-120				1.33		20

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1727407

DATE/TIME:  
05/07/24 08:32

PAGE:  
30 of 72

L1724562-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1724562-01 04/25/24 08:55 • (DUP) R4061931-2 04/25/24 08:55

Analyte	Original Result su	DUP Result su	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
pH	7.47	7.45	1	0.268		20

Sample Narrative:

OS: 7.47 at 19.7C

DUP: 7.45 at 20C

L1724631-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1724631-01 04/25/24 08:55 • (DUP) R4061931-3 04/25/24 08:55

Analyte	Original Result su	DUP Result su	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
pH	7.76	7.84	1	1.03		20

Sample Narrative:

OS: 7.76 at 19.5C

DUP: 7.84 at 19.5C

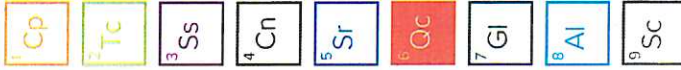
Laboratory Control Sample (LCS)

(LCS) R4061931-1 04/25/24 08:55

Analyte	Spike Amount su	LCS Result su	LCS Rec. %	Rec. Limits %	LCS Qualifier
pH	6.00	5.99	99.8	99.0-101	

Sample Narrative:

LCS: 5.99 at 21.7C



WG2271845

Wet Chemistry by Method SM4500NH3H

QUALITY CONTROL SUMMARY

L1727407-01

Method Blank (MB)

(MB) R4060624-1 04/22/24 15:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	0.0658	J	0.0280	0.100

Laboratory Control Sample (LCS)

(LCS) R4060624-2 04/22/24 15:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	5.00	5.19	104	80.0-120	

L1726497-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1726497-02 04/22/24 16:05 • (MS) R4060624-3 04/22/24 15:28 • (MSD) R4060624-4 04/22/24 15:29

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	0.171	5.10	5.09	98.6	98.4	1	80.0-120		0.196	0.196	20

L1726615-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1726615-01 04/22/24 16:09 • (MS) R4060624-5 04/22/24 15:31 • (MSD) R4060624-6 04/22/24 15:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	0.0484	5.01	5.02	99.2	99.4	1	80.0-120		0.199	0.199	20

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1727407

DATE/TIME:

05/07/24 08:32

PAGE:

32 of 72



Metals (ICP) by Method 200.7

Method Blank (MB)

(MB) R4061392-1 04/24/24 10:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aluminum	<0.0353		0.0353	0.500
Antimony	<0.00242		0.00242	0.0250
Arsenic	<0.00418		0.00418	0.0200
Barium	<0.000490		0.000490	0.0100
Beryllium	<0.000180		0.000180	0.00100
Boron	<0.0186		0.0186	0.100
Cadmium	<0.000350		0.000350	0.00500
Chromium	<0.000710		0.000710	0.00700
Cobalt	<0.000680		0.000680	0.00250
Copper	<0.00364		0.00364	0.0200
Iron	<0.0303		0.0303	0.500
Lead	<0.00312		0.00312	0.0100
Magnesium	<0.0434		0.0434	1.00
Manganese	0.00789		0.00557	0.0500
Molybdenum	<0.00760		0.00760	0.0300
Nickel	<0.00358		0.00358	0.0100
Thallium	<0.00775		0.00775	0.0200
Tin	<0.00240		0.00240	0.0250
Titanium	<0.00835		0.00835	0.100
Zinc	<0.0106		0.0106	0.0250

Method Blank (MB)

(MB) R4061703-2 04/24/24 16:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Selenium	<0.00500		0.00500	0.0200

Method Blank (MB)

(MB) R4062603-1 04/26/24 14:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Silver	<0.000990		0.000990	0.00500

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1727407

DATE/TIME:  
05/07/24 08:32

PAGE:  
33 of 72

WG2272337

Metals (ICP) by Method 200.7

## QUALITY CONTROL SUMMARY

L1727407-01

### Laboratory Control Sample (LCS)

(LCS) R4061392-2 04/24/24 10:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum	10.0	9.71	97.1	85.0-115	
Antimony	1.00	0.964	96.4	85.0-115	
Arsenic	1.00	0.957	95.7	85.0-115	
Barium	1.00	0.972	97.2	85.0-115	
Beryllium	1.00	0.992	99.2	85.0-115	
Boron	1.00	0.950	95.0	85.0-115	
Cadmium	1.00	0.966	96.6	85.0-115	
Chromium	1.00	0.982	98.2	85.0-115	
Cobalt	1.00	1.01	101	85.0-115	
Copper	1.00	0.981	98.1	85.0-115	
Iron	10.0	9.93	99.3	85.0-115	
Lead	1.00	1.01	101	85.0-115	
Magnesium	10.0	9.95	99.5	85.0-115	
Manganese	1.00	1.00	100	85.0-115	
Molybdenum	1.00	1.01	101	85.0-115	
Nickel	1.00	1.00	100	85.0-115	
Thallium	1.00	1.03	103	85.0-115	
Tin	1.00	1.00	100	85.0-115	
Titanium	1.00	0.973	97.3	85.0-115	
Zinc	1.00	0.988	98.8	85.0-115	

### Laboratory Control Sample (LCS)

(LCS) R4061703-1 04/24/24 16:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Selenium	1.00	0.929	92.9	85.0-115	

### Laboratory Control Sample (LCS)

(LCS) R4062603-2 04/26/24 14:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Silver	0.500	0.501	100	85.0-115	

ACCOUNT:

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PROJECT:

SDG:

L1727407

DATE/TIME:

05/07/24 08:32

PAGE:

34 of 72



L1727407-01

## L1727407-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1727407-01 04/24/24 16:32 • (MS) R4061703-3 04/24/24 16:36 • (MSD) R4061703-4 04/24/24 16:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	10.0	<0.0353	10.7	10.5	107	105	1	70.0-130			1.23	20
Barium	1.00	0.292	1.36	1.34	107	105	1	70.0-130			1.78	20
Beryllium	1.00	<0.000180	1.02	1.01	102	101	1	70.0-130			1.08	20
Boron	1.00	2.65	3.73	3.68	108	103	1	70.0-130			1.46	20
Chromium	1.00	<0.000710	0.950	0.951	95.0	95.1	1	70.0-130			0.116	20
Copper	1.00	<0.00364	1.05	1.04	105	104	1	70.0-130			0.768	20
Iron	10.0	0.547	10.7	10.6	101	100	1	70.0-130			0.943	20
Magnesium	10.0	175	192	189	173	143	1	70.0-130	Y	Y	1.57	20
Manganese	1.00	0.599	1.55	1.55	95.1	94.6	1	70.0-130			0.323	20
Molybdenum	1.00	0.165	1.17	1.16	101	99.1	1	70.0-130			1.63	20
Titanium	1.00	<0.00835	1.02	1.00	102	100	1	70.0-130			1.69	20

## L1727850-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1727850-05 04/24/24 16:44 • (MS) R4061703-5 04/24/24 16:48 • (MSD) R4061703-6 04/24/24 16:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	10.0	0.0625	10.2	10.3	101	102	1	70.0-130			0.975	20
Antimony	1.00	<0.00242	0.968	0.977	96.8	97.7	1	70.0-130			0.915	20
Arsenic	1.00	<0.00418	1.01	1.02	101	102	1	70.0-130			0.981	20
Barium	1.00	0.0360	1.05	1.06	102	103	1	70.0-130			0.756	20
Beryllium	1.00	<0.000180	1.04	1.05	104	105	1	70.0-130			0.766	20
Boron	1.00	0.535	1.51	1.52	97.8	98.9	1	70.0-130			0.724	20
Cadmium	1.00	<0.000350	0.986	0.995	98.6	99.5	1	70.0-130			0.909	20
Chromium	1.00	0.00109	1.02	1.03	102	102	1	70.0-130			0.685	20
Cobalt	1.00	0.00541	1.00	1.01	99.7	100	1	70.0-130			0.795	20
Copper	1.00	0.00532	1.01	1.01	100	101	1	70.0-130			0.793	20
Iron	10.0	0.0994	10.6	10.6	105	105	1	70.0-130			0.849	20
Lead	1.00	0.00343	0.996	1.00	99.2	99.9	1	70.0-130			0.631	20
Magnesium	10.0	9.88	20.2	20.4	103	105	1	70.0-130			1.09	20
Manganese	1.00	0.0125	1.01	1.01	99.4	99.9	1	70.0-130			0.495	20
Molybdenum	1.00	<0.00760	0.978	0.996	97.8	99.6	1	70.0-130			1.77	20
Nickel	1.00	0.00578	1.02	1.03	102	102	1	70.0-130			0.585	20
Selenium	1.00	<0.00500	0.991	0.995	99.1	99.5	1	70.0-130			0.363	20
Thallium	1.00	<0.00775	1.00	1.01	100	101	1	70.0-130			0.892	20
Tin	1.00	<0.00240	1.03	1.04	103	104	1	70.0-130			0.773	20
Titanium	1.00	<0.00835	1.02	1.03	102	103	1	70.0-130			1.08	20
Zinc	1.00	<0.0106	0.981	0.988	98.1	98.8	1	70.0-130			0.640	20

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1727407DATE/TIME:  
05/07/24 08:32PAGE:  
35 of 72



WG2272337

Metals (ICP) by Method 200.7

## QUALITY CONTROL SUMMARY

L1727407-01

### L1727407-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1727407-01 04/25/24 13:37 • (MS) R4062088-1 04/25/24 13:41 • (MSD) R4062088-2 04/25/24 13:45

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	1.00	<0.00484	1.03	1.04	103	104	2	70.0-130			1.16	20
Arsenic	1.00	<0.00836	1.08	1.09	108	109	2	70.0-130			0.755	20
Cadmium	1.00	<0.000700	1.06	1.07	106	107	2	70.0-130			0.842	20
Cobalt	1.00	<0.00136	0.928	0.938	92.8	93.8	2	70.0-130			1.07	20
Lead	1.00	0.0126	0.916	0.922	90.4	91.0	2	70.0-130			0.631	20
Nickel	1.00	0.0143	0.950	0.959	93.6	94.5	2	70.0-130			0.964	20
Selenium	1.00	<0.0100	1.06	1.07	106	107	2	70.0-130			1.22	20
Thallium	1.00	<0.0155	0.879	0.887	87.9	88.7	2	70.0-130			0.974	20
Tin	1.00	<0.00480	0.954	0.962	95.4	96.2	2	70.0-130			0.835	20
Zinc	1.00	<0.0212	0.961	0.970	96.1	97.0	2	70.0-130			0.953	20

### L1727407-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1727407-01 04/26/24 14:32 • (MS) R4062603-3 04/26/24 14:36 • (MSD) R4062603-4 04/26/24 14:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Silver	0.500	<0.000990	0.567	0.552	113	110	1	70.0-130			2.68	20

### L1727850-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1727850-05 04/26/24 14:44 • (MS) R4062603-5 04/26/24 14:48 • (MSD) R4062603-6 04/26/24 14:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Silver	0.500	0.0587	0.568	0.571	102	102	1	70.0-130			0.527	20

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1727407

DATE/TIME:  
05/07/24 08:32

PAGE:  
36 of 72

Method Blank (MB)

(MB) R4060909-2 04/22/24 13:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,1-Trichloroethane	<0.00335		0.00335	0.00500
1,1,2,2-Tetrachloroethane	<0.000596		0.000596	0.00500
1,1,2-Trichloroethane	<0.00145		0.00145	0.00500
1,1-Dichloroethane	<0.00292		0.00292	0.00500
1,1-Dichloroethene	<0.00367		0.00367	0.00500
1,2-Dichlorobenzene	<0.00172		0.00172	0.00200
1,2-Dichloroethane	<0.00195		0.00195	0.00500
1,2-Dichloropropane	<0.000804		0.000804	0.00200
1,3-Dichlorobenzene	<0.00419		0.00419	0.00500
1,4-Dichlorobenzene	<0.00173		0.00173	0.00200
2-Chloroethyl vinyl ether	<0.00652		0.00652	0.0100
Acrolein	<0.00544		0.00544	0.0100
Acrylonitrile	<0.00709		0.00709	0.0100
Benzene	<0.00207		0.00207	0.00500
Bromodichloromethane	<0.00179		0.00179	0.00200
Bromoform	<0.000960		0.000960	0.0100
Bromomethane	<0.00347		0.00347	0.00500
Carbon tetrachloride	<0.00159		0.00159	0.00200
Chlorobenzene	<0.00276		0.00276	0.0100
Chloroethane	<0.00296		0.00296	0.00500
Chloroform	<0.00212		0.00212	0.00500
Chloromethane	<0.00361		0.00361	0.00500
cis-1,2-Dichloroethene	<0.00113		0.00113	0.00500
cis-1,3-Dichloropropene	<0.00492		0.00492	0.0100
Dibromochloromethane	<0.00327		0.00327	0.00500
Ethylbenzene	<0.000401		0.000401	0.00200
Methylene Chloride	<0.0118		0.0118	0.0200
Tetrachloroethene	<0.00486		0.00486	0.0100
Toluene	<0.00219		0.00219	0.00500
Total 1,3-Dichloropropene	<0.00372		0.00372	0.0100
trans-1,2-Dichloroethene	<0.00501		0.00501	0.0100
trans-1,3-Dichloropropene	<0.00460		0.00460	0.00500
Trichloroethene	<0.00262		0.00262	0.00500
Vinyl chloride	<0.00466		0.00466	0.00500
(S) 1,2-Dichloroethane-d4	92.9			70.0-130
(S) 4-Bromofluorobenzene	105			70.0-130
(S) Toluene-d8	102			70.0-130

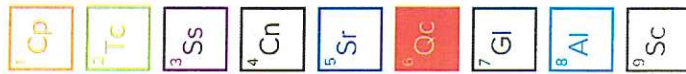
ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1727407

DATE/TIME:  
05/07/24 08:32

PAGE:  
37 of 72





WG2271797

Volatile Organic Compounds (GC/MS) by Method 624.1

Laboratory Control Sample (LCS)

(LCS) R4060909-1 04/22/24 12:38

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,1,1-Trichloroethane	0.0200	0.0198	99.0	70.0-130	
1,1,2,2-Tetrachloroethane	0.0200	0.0197	98.5	60.0-140	
1,1,2-Trichloroethane	0.0200	0.0201	101	70.0-130	
1,1-Dichloroethane	0.0200	0.0201	101	70.0-130	
1,1-Dichloroethene	0.0200	0.0213	106	50.0-150	
1,2-Dichlorobenzene	0.0200	0.0203	102	65.0-135	
1,2-Dichloroethane	0.0200	0.0199	99.5	70.0-130	
1,2-Dichloropropane	0.0200	0.0199	99.5	35.0-165	
1,3-Dichlorobenzene	0.0200	0.0204	102	70.0-130	
1,4-Dichlorobenzene	0.0200	0.0196	98.0	65.0-135	
2-Chloroethyl vinyl ether	0.100	0.0952	95.2	1.00-225	
Acrolein	0.100	0.122	122	64.0-139	
Acrylonitrile	0.100	0.0951	95.1	67.0-136	
Benzene	0.0200	0.0206	103	65.0-135	
Bromodichloromethane	0.0200	0.0202	101	65.0-135	
Bromoform	0.0200	0.0170	85.0	70.0-130	
Bromomethane	0.0200	0.0153	76.5	15.0-185	
Carbon tetrachloride	0.0200	0.0185	92.5	70.0-130	
Chlorobenzene	0.0200	0.0203	102	65.0-135	
Chloroethane	0.0200	0.0198	99.0	40.0-160	
Chloroform	0.0200	0.0196	98.0	70.0-135	
Chloromethane	0.0200	0.0108	54.0	1.00-205	
cis-1,2-Dichloroethene	0.0200	0.0205	103	70.0-130	
cis-1,3-Dichloropropene	0.0200	0.0183	91.5	25.0-175	
Dibromochloromethane	0.0200	0.0194	97.0	70.0-135	
Ethylbenzene	0.0200	0.0205	103	60.0-140	
Methylene Chloride	0.0200	0.0186	93.0	60.0-140	
Tetrachloroethene	0.0200	0.0220	110	70.0-130	
Toluene	0.0200	0.0206	103	70.0-130	
Total 1,3-Dichloropropene	0.0401	0.0342	85.3	70.0-130	
trans-1,2-Dichloroethene	0.0200	0.0195	97.5	70.0-130	
trans-1,3-Dichloropropene	0.0200	0.0159	79.5	50.0-150	
Trichloroethene	0.0200	0.0192	96.0	65.0-135	
Vinyl chloride	0.0200	0.0174	87.0	5.00-195	
(S) 1,2-Dichloroethane-d4			94.0	70.0-130	
(S) 4-Bromofluorobenzene			98.7	70.0-130	
(S) Toluene-d8			99.5	70.0-130	

ACCOUNT:  
Holidav Beach WSC

PROJECT:

SDG:  
L1727407

DATE/TIME:  
05/07/24 08:32

PAGE:  
38 of 72

QUALITY CONTROL SUMMARY

L1727407-01

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc



## L1727850-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1727850-01 04/22/24 15:45 • (MS) R4060909-3 04/22/24 14:32 • (MSD) R4060909-4 04/22/24 14:56

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,1,1-Trichloroethane	0.0199	<0.00335	0.0205	0.0184	103	92.5	1	52.0-162			10.8	36
1,1,2,2-Tetrachloroethane	0.0201	<0.000596	0.0183	0.0192	91.0	95.5	1	46.0-157			4.80	61
1,1,2-Trichloroethane	0.0199	<0.00145	0.0193	0.0181	97.0	91.0	1	52.0-150			6.42	45
1,1-Dichloroethane	0.0200	<0.00292	0.0188	0.0180	94.0	90.0	1	59.0-155			4.35	40
1,1-Dichloroethene	0.0200	<0.00367	0.0225	0.0191	113	95.5	1	1.00-234			16.3	32
1,2-Dichlorobenzene	0.0200	<0.00172	0.0187	0.0182	93.5	91.0	1	18.0-190			2.71	57
1,2-Dichloroethane	0.0200	<0.00195	0.0177	0.0169	88.5	84.5	1	49.0-155			4.62	49
1,2-Dichloropropane	0.0199	<0.000804	0.0189	0.0175	95.0	87.9	1	1.00-210			7.69	55
1,3-Dichlorobenzene	0.0199	<0.00419	0.0178	0.0176	89.4	88.4	1	59.0-156			1.13	43
1,4-Dichlorobenzene	0.0200	<0.00173	0.0182	0.0180	91.0	90.0	1	18.0-190			1.10	57
2-Chloroethyl vinyl ether	0.100	<0.00652	<0.00652	<0.00652	0.000	0.000	1	1.00-305	J6	J6	0.000	71
Acrolein	0.100	<0.00544	<0.00544	<0.00544	0.000	0.000	1	4.00-172	J6	J6	0.000	20
Acrylonitrile	0.100	<0.00709	0.0911	0.0930	91.1	93.0	1	22.0-189			2.06	20
Benzene	0.0200	<0.00207	0.0206	0.0189	103	94.5	1	37.0-151			8.61	61
Bromodichloromethane	0.0199	<0.00179	0.0182	0.0170	91.5	85.4	1	35.0-155			6.82	56
Bromoform	0.0198	<0.000960	0.0160	0.0152	80.8	76.8	1	70.0-130			5.13	42
Bromomethane	0.0200	<0.00347	0.0134	0.0140	67.0	70.0	1	15.0-185			4.38	61
Carbon tetrachloride	0.0200	<0.00159	0.0198	0.0179	99.0	89.5	1	70.0-140			10.1	41
Chlorobenzene	0.0200	<0.00276	0.0194	0.0181	97.0	90.5	1	37.0-160			6.93	53
Chloroethane	0.0200	<0.00296	0.0219	0.0181	110	90.5	1	14.0-230			19.0	78
Chloroform	0.0200	<0.00212	0.0191	0.0179	95.5	89.5	1	51.0-138			6.49	54
Chloromethane	0.0200	<0.00361	0.0128	0.0142	64.0	71.0	1	1.00-273			10.4	20
cis-1,2-Dichloroethene	0.0200	<0.00113	0.0186	0.0181	93.0	90.5	1	70.0-130			2.72	20
cis-1,3-Dichloropropene	0.0200	<0.00492	0.0171	0.0163	85.5	81.5	1	1.00-227			4.79	58
Dibromochloromethane	0.0198	<0.00327	0.0180	0.0170	90.9	85.9	1	53.0-149			5.71	50
Ethylbenzene	0.0200	0.00156	0.0221	0.0205	103	94.7	1	37.0-162			7.51	63
Methylene Chloride	0.0204	<0.0118	0.0167	0.0162	81.9	79.4	1	1.00-221			3.04	28
Tetrachloroethene	0.0200	<0.00486	0.0224	0.0207	112	104	1	64.0-148			7.89	39
Toluene	0.0200	<0.00219	0.0203	0.0187	102	93.5	1	47.0-150			8.21	41
Total 1,3-Dichloropropene	0.0401	<0.00372	0.0322	0.0317	80.3	79.1	1	70.0-130			1.56	20
trans-1,2-Dichloroethene	0.0200	<0.00501	0.0198	0.0175	99.0	87.5	1	54.0-156			12.3	45
trans-1,3-Dichloropropene	0.0201	<0.00460	0.0151	0.0154	75.1	76.6	1	17.0-183			1.97	86
Trichloroethene	0.0200	<0.00262	0.0207	0.0181	104	90.5	1	70.0-157			13.4	48
Vinyl chloride	0.0200	<0.00466	0.0197	0.0177	98.5	88.5	1	1.00-251			10.7	66
(S) 1,2-Dichloroethane-d4					90.7	93.5		70.0-130				
(S) 4-Bromofluorobenzene					97.3	98.5		70.0-130				
(S) Toluene-d8					101	103		70.0-130				

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1727407DATE/TIME:  
05/07/24 08:32PAGE:  
39 of 72

WG2272451

Pesticides (GC) by Method EPA 608.3

## QUALITY CONTROL SUMMARY

L1727407-01

### Method Blank (MB)

(MB) R4062225-1 04/24/24 14:52

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aldrin	<0.0000198		0.0000198	0.0000500
Alpha BHC	<0.0000172		0.0000172	0.0000500
Beta BHC	<0.0000208		0.0000208	0.0000500
Delta BHC	<0.0000150		0.0000150	0.0000500
Gamma BHC	<0.0000209		0.0000209	0.0000500
Chlordane	<0.0000198		0.0000198	0.00500
4,4-DDD	<0.0000177		0.0000177	0.0000500
4,4-DDE	<0.0000154		0.0000154	0.0000500
4,4-DDT	<0.0000198		0.0000198	0.0000500
Dieldrin	<0.0000162		0.0000162	0.0000500
Endosulfan I	<0.0000160		0.0000160	0.0000500
Endosulfan II	<0.0000164		0.0000164	0.0000500
Endosulfan sulfate	<0.0000217		0.0000217	0.0000500
Endrin	<0.0000161		0.0000161	0.0000500
Endrin aldehyde	<0.0000237		0.0000237	0.0000500
Endrin ketone	<0.0000219		0.0000219	0.0000500
Heptachlor	<0.0000148		0.0000148	0.0000500
Heptachlor epoxide	<0.0000183		0.0000183	0.0000500
Hexachlorobenzene	<0.0000176		0.0000176	0.0000500
Methoxychlor	<0.0000193		0.0000193	0.0000500
Toxaphene	<0.000168		0.000168	0.000500
gamma-Chlordane	<0.0000137		0.0000137	0.0000500
alpha-Chlordane	<0.0000149		0.0000149	0.0000500
(S) Decachlorobiphenyl	71.1			10.0-144
(S) Tetrachloro-m-xylene	60.8			10.0-135

### Laboratory Control Sample (LCS)

(LCS) R4062225-2 04/24/24 15:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aldrin	0.00100	0.000514	51.4	42.0-140	
Alpha BHC	0.00100	0.000737	73.7	37.0-140	
Beta BHC	0.00100	0.000761	76.1	17.0-147	
Delta BHC	0.00100	0.000723	72.3	19.0-140	
Gamma BHC	0.00100	0.000775	77.5	32.0-140	
4,4-DDD	0.00100	0.000833	83.3	31.0-141	
4,4-DDE	0.00100	0.000724	72.4	30.0-145	
4,4-DDT	0.00100	0.000814	81.4	25.0-160	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1727407

DATE/TIME:  
05/07/24 08:32

PAGE:  
40 of 72



## Laboratory Control Sample (LCS)

(LCS) R4062225-2 04/24/24 15:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dieldrin	0.00100	0.000785	78.5	36.0-146	
Endosulfan I	0.00100	0.000755	75.5	45.0-153	
Endosulfan II	0.00100	0.000768	76.8	1.00-202	
Endosulfan sulfate	0.00100	0.000791	79.1	26.0-144	
Endrin	0.00100	0.000836	83.6	30.0-147	
Endrin aldehyde	0.00100	0.000737	73.7	56.0-128	
Endrin ketone	0.00100	0.000778	77.8	54.0-142	
Heptachlor	0.00100	0.000615	61.5	34.0-140	
Heptachlor epoxide	0.00100	0.000745	74.5	37.0-142	
Hexachlorobenzene	0.00100	0.000509	50.9	35.0-120	
Methoxychlor	0.00100	0.000839	83.9	44.0-160	
gamma-Chlordane	0.00100	0.000717	71.7	45.0-140	
alpha-Chlordane	0.00100	0.000708	70.8	45.0-140	
(S) Decachlorobiphenyl			71.4	10.0-144	
(S) Tetrachloro-m-xylene			47.8	10.0-135	

## L1727407-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1727407-01 04/24/24 16:01 • (MS) R4062225-3 04/24/24 16:10 • (MSD) R4062225-4 04/24/24 16:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.00100	<0.0000198	0.000173	0.000772	17.3	77.2	1	42.0-140	J6	J3	127	35
Alpha BHC	0.00100	<0.0000172	0.000178	0.000823	17.8	82.3	1	37.0-140	J6	J3	129	36
Beta BHC	0.00100	<0.0000208	0.000204	0.000847	20.4	84.7	1	17.0-147	J6	J3	122	44
Delta BHC	0.00100	<0.0000150	0.000182	0.000802	18.2	80.2	1	19.0-140	J6	J3	126	52
Gamma BHC	0.00100	<0.0000209	0.000191	0.000868	19.1	86.8	1	32.0-140	J6	J3	128	39
4,4-DDD	0.00100	<0.0000177	0.000200	0.000921	20.0	92.1	1	31.0-141	J6	J3	129	39
4,4-DDE	0.00100	<0.0000154	0.000218	0.000859	21.8	85.9	1	30.0-145	J6	J3	119	35
4,4-DDT	0.00100	<0.0000198	0.000201	0.000859	20.1	85.9	1	25.0-160	J6	J3	124	42
Dieldrin	0.00100	<0.0000162	0.000194	0.000885	19.4	88.5	1	36.0-146	J6	J3	128	49
Endosulfan I	0.00100	<0.0000160	0.000204	0.000835	20.4	83.5	1	45.0-153	J6	J3	121	28
Endosulfan II	0.00100	<0.0000164	0.000192	0.000843	19.2	84.3	1	1.00-202	J6	J3	126	53
Endosulfan sulfate	0.00100	<0.0000217	0.000204	0.000876	20.4	87.6	1	26.0-144	J6	J3	124	38
Endrin	0.00100	<0.0000161	0.000198	0.000842	19.8	84.2	1	30.0-147	J6	J3	124	48
Endrin aldehyde	0.00100	<0.0000237	0.000234	0.000809	23.4	80.9	1	56.0-128	J6	J3	110	20
Endrin ketone	0.00100	<0.0000219	0.000204	0.000864	20.4	86.4	1	54.0-142	J6	J3	124	20
Heptachlor	0.00100	<0.0000148	0.000190	0.000819	19.0	81.9	1	34.0-140	J6	J3	125	43
Heptachlor epoxide	0.00100	<0.0000183	0.000197	0.000839	19.7	83.9	1	37.0-142	J6	J3	124	26
Hexachlorobenzene	0.00100	<0.0000176	0.000171	0.000686	17.1	68.6	1	35.0-120	J6	J3	120	25

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1727407

DATE/TIME:

05/07/24 08:32

PAGE:

41 of 72



WG2272451

Pesticides (GC) by Method EPA 608.3

QUALITY CONTROL SUMMARY

L1727407-01

L1727407-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1727407-01 04/24/24 16:01 • (MS) R4062225-3 04/24/24 16:10 • (MSD) R4062225-4 04/24/24 16:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methoxychlor	0.00100	<0.0000193	0.000217	0.000919	21.7	91.9	1	44.0-160	J6	J3	124	22
gamma-Chlordane	0.00100	<0.0000137	0.000187	0.000841	18.7	84.1	1	45.0-140	J6	J3	127	35
alpha-Chlordane	0.00100	<0.0000149	0.000203	0.000827	20.3	82.7	1	45.0-140	J6	J3	121	35
(S) Decachlorobiphenyl					22.7	73.9		10.0-144				
(S) Tetrachloro-m-xylene					16.4	66.7		10.0-135				

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

Method Blank (MB)

(MB) R4062225-1 04/24/24 14:52

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
PCB 1016	<0.000270		0.000270	0.000500
PCB 1221	<0.000270		0.000270	0.000500
PCB 1232	<0.000270		0.000270	0.000500
PCB 1242	<0.000270		0.000270	0.000500
PCB 1248	<0.000173		0.000173	0.000500
PCB 1254	<0.000173		0.000173	0.000500
PCB 1260	<0.000173		0.000173	0.000500
Total PCBs	<0.000173		0.000173	0.000500
(S) Decachlorobiphenyl	72.5			10.0-144
(S) Tetrachloro-m-xylene	63.3			10.0-135

Laboratory Control Sample (LCS)

(LCS) R4062225-5 04/24/24 15:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.00250	0.00207	82.8	50.0-140	
PCB 1260	0.00250	0.00199	79.6	8.00-140	
(S) Decachlorobiphenyl			73.9	10.0-144	
(S) Tetrachloro-m-xylene			76.6	10.0-135	

L1727407-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1727407-01 04/24/24 16:01 • (MS) R4062225-6 04/24/24 16:30 • (MSD) R4062225-7 04/24/24 16:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
PCB 1016	0.00250	<0.000270	0.00208	0.00216	1	50.0-140	83.2	86.4	3.77	36
PCB 1260	0.00250	<0.000173	0.00199	0.00202	1	8.00-140	79.6	80.8	1.50	38
(S) Decachlorobiphenyl						10.0-144	78.2	82.5		
(S) Tetrachloro-m-xylene						10.0-135	70.4	76.2		

## QUALITY CONTROL SUMMARY

L1727407-01

## Method Blank (MB)

(MB) R4061496-1 04/23/24 12:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,2,4,5-Tetrachlorobenzene	<0.00132		0.00132	0.00250
1,2,4-Trichlorobenzene	<0.00159		0.00159	0.00250
1,2-Dichlorobenzene	<0.00168		0.00168	0.00250
1,3-Dichlorobenzene	<0.00170		0.00170	0.00250
1,4-Dichlorobenzene	<0.00184		0.00184	0.00250
2,2-Oxybis(1-Chloropropane)	<0.00116		0.00116	0.00250
2,4,5-Trichlorophenol	<0.00193		0.00193	0.00250
2,4,6-Trichlorophenol	<0.00179		0.00179	0.00250
2,4-Dichlorophenol	<0.000820		0.000820	0.00250
2,4-Dimethylphenol	<0.00142		0.00142	0.00500
2,4-Dinitrophenol	<0.00115		0.00115	0.00500
2,4-Dinitrotoluene	<0.00265		0.00265	0.00500
2,6-Dichlorophenol	<0.00107		0.00107	0.00250
2,6-Dinitrotoluene	<0.00181		0.00181	0.00500
2-Chloronaphthalene	<0.00143		0.00143	0.00250
2-Chlorophenol	<0.000820		0.000820	0.00250
2-Methylphenol	<0.000760		0.000760	0.00500
2-Nitrophenol	<0.00169		0.00169	0.00250
3&4-Methyl Phenol	<0.000767		0.000767	0.00250
3,3-Dichlorobenzidine	<0.00265		0.00265	0.00500
4,6-Dinitro-2-methylphenol	<0.00150		0.00150	0.00500
4-Bromophenyl-phenylether	<0.00104		0.00104	0.00250
4-Chloro-3-methylphenol	<0.000865		0.000865	0.00250
4-Chlorophenyl-phenylether	<0.00140		0.00140	0.00250
4-Nitrophenol	<0.00164		0.00164	0.00500
Acenaphthene	<0.00134		0.00134	0.00250
Acenaphthylene	<0.00134		0.00134	0.00250
Acetophenone	<0.000788		0.000788	0.00250
Alpha-Terpineol	<0.000696		0.000696	0.00250
Aniline	<0.000536		0.000536	0.00250
Anthracene	<0.00111		0.00111	0.00250
Atrazine	<0.00167		0.00167	0.00250
Benzidine	<0.00311		0.00311	0.0100
Benzo(a)anthracene	<0.000933		0.000933	0.00250
Benzo(a)pyrene	<0.000941		0.000941	0.00250
Benzo(b)fluoranthene	<0.00102		0.00102	0.00250
Benzo(g,h,i)perylene	<0.00101		0.00101	0.00250
Benzo(k)fluoranthene	<0.000934		0.000934	0.00250
Benzoic acid	<0.00657		0.00657	0.0100
Benzylbutyl phthalate	<0.00143		0.00143	0.00250

ACCOUNT:

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PROJECT:

SDG:

L1727407

DATE/TIME:

05/07/24 08:32

PAGE:

44 of 72



## Method Blank (MB)

(MB) R4061496-1 04/23/24 12:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Bis(2-chlorethoxy)methane	<0.000991		0.000991	0.00250
Bis(2-chloroethyl)ether	<0.00101		0.00101	0.00250
Bis(2-chloroisopropyl)ether	<0.00116		0.00116	0.00250
Bis(2-Ethylhexyl)phthalate	<0.00318		0.00318	0.00500
Carbazole	<0.00106		0.00106	0.00250
Chrysene	<0.00102		0.00102	0.00250
Di-n-butyl phthalate	<0.00120		0.00120	0.00250
Di-n-octyl phthalate	<0.00174		0.00174	0.00250
Dibenz(a,h)anthracene	<0.00110		0.00110	0.00250
Dibenzofuran	<0.00120		0.00120	0.00250
Diethyl phthalate	<0.000915		0.000915	0.00250
Dimethyl phthalate	<0.000878		0.000878	0.00250
Fluoranthene	<0.00114		0.00114	0.00250
Fluorene	<0.00131		0.00131	0.00250
Hexachloro-1,3-butadiene	<0.00176		0.00176	0.00250
Hexachlorobenzene	<0.000972		0.000972	0.00250
Hexachlorocyclopentadiene	<0.00117		0.00117	0.0100
Hexachloroethane	<0.00188		0.00188	0.00250
1,2-Diphenylhydrazine	<0.00124		0.00124	0.00250
Indeno(1,2,3-cd)pyrene	<0.000984		0.000984	0.00250
Isophorone	<0.00183		0.00183	0.00250
n-Decane	<0.00158		0.00158	0.00250
n-Nitrosodi-n-butylamine	<0.000735		0.000735	0.00250
n-Nitrosodi-n-propylamine	<0.00107		0.00107	0.00250
n-Nitrosodiethylamine	<0.000925		0.000925	0.00250
n-Nitrosodimethylamine	<0.000651		0.000651	0.00250
n-Nitrosodiphenylamine	<0.000829		0.000829	0.00250
n-Octadecane	<0.00128		0.00128	0.00250
Naphthalene	<0.00200		0.00200	0.00250
Nitrobenzene	<0.00124		0.00124	0.00250
Nonylphenol	<0.00286		0.00286	0.00500
Pentachlorobenzene	<0.00134		0.00134	0.00250
Pentachlorophenol	<0.00210		0.00210	0.00500
Phenanthrene	<0.00113		0.00113	0.00250
Phenol	<0.000967		0.000967	0.00250
Pyrene	<0.00115		0.00115	0.00250
Pyridine	<0.00117		0.00117	0.00250
Total Cresols	<0.00153		0.00153	0.00750
(S) 2,4,6-Tribromophenol	75.2			29.0-132
(S) 2-Fluorobiphenyl	85.6			26.0-102

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1727407DATE/TIME:  
05/07/24 08:32PAGE:  
45 of 72

Method Blank (MB)

(MB) R4061496-1 04/23/24 12:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
(S) 2-Fluorophenol	47.9			10.0-66.0
(S) Nitrobenzene-d5	85.9			15.0-106
(S) p-Terphenyl-d14	95.3			10.0-120
(S) Phenol-d6	37.7			10.0-54.0

Laboratory Control Sample (LCS)

(LCS) R4061496-2 04/23/24 12:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,4,5-Tetrachlorobenzene	0.0500	0.0398	79.6	31.0-120	
1,2,4-Trichlorobenzene	0.0500	0.0422	84.4	44.0-142	
1,2-Dichlorobenzene	0.0500	0.0386	77.2	27.0-120	
1,3-Dichlorobenzene	0.0500	0.0379	75.8	26.0-120	
1,4-Dichlorobenzene	0.0500	0.0377	75.4	26.0-120	
2,2-Oxybis(1-Chloropropane)	0.0500	0.0389	77.8	36.0-166	
2,4,5-Trichlorophenol	0.0500	0.0441	88.2	44.0-124	
2,4,6-Trichlorophenol	0.0500	0.0465	93.0	37.0-144	
2,4-Dichlorophenol	0.0500	0.0438	87.6	39.0-135	
2,4-Dimethylphenol	0.0500	0.0544	109	32.0-120	
2,4-Dinitrophenol	0.0500	0.0440	88.0	100-191	
2,4-Dinitrotoluene	0.0500	0.0478	95.6	39.0-139	
2,6-Dichlorophenol	0.0500	0.0402	80.4	26.0-120	
2,6-Dinitrotoluene	0.0500	0.0457	91.4	50.0-158	
2-Chloronaphthalene	0.0500	0.0448	89.6	60.0-120	
2-Chlorophenol	0.0500	0.0358	71.6	23.0-134	
2-Methylphenol	0.0500	0.0331	66.2	26.0-120	
2-Nitrophenol	0.0500	0.0440	88.0	29.0-182	
3&4-Methyl Phenol	0.0500	0.0319	63.8	27.0-120	
3,3-Dichlorobenzidine	0.100	0.0680	68.0	100-262	
4,6-Dinitro-2-methylphenol	0.0500	0.0449	89.8	100-181	
4-Bromophenyl-phenylether	0.0500	0.0434	86.8	53.0-127	
4-Chloro-3-methylphenol	0.0500	0.0409	81.8	22.0-147	
4-Chlorophenyl-phenylether	0.0500	0.0509	102	25.0-158	
4-Nitrophenol	0.0500	0.0251	50.2	100-132	
Acenaphthene	0.0500	0.0418	83.6	47.0-145	
Acenaphthylene	0.0500	0.0428	85.6	33.0-145	
Acetophenone	0.0500	0.0410	82.0	28.0-120	
Alpha-Terpineol	0.0500	0.0399	79.8	30.0-120	



Laboratory Control Sample (LCS)

(LCS) R4061496-2 04/23/24 12:43

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aniline	0.0500	0.0585	117	10.0-120	
Anthracene	0.0500	0.0455	91.0	27.0-133	
Atrazine	0.0500	0.0528	106	39.0-141	
Benzidine	0.100	0.0828	82.8	100-120	
Benzo(a)anthracene	0.0500	0.0451	90.2	33.0-143	
Benzo(a)pyrene	0.0500	0.0490	98.0	17.0-163	
Benzo(b)fluoranthene	0.0500	0.0478	95.6	24.0-159	
Benzo(g,h,i)perylene	0.0500	0.0432	86.4	100-219	
Benzo(k)fluoranthene	0.0500	0.0453	90.6	11.0-162	
Benzoic acid	0.100	0.0381	38.1	10.0-120	
Benzylbutyl phthalate	0.0500	0.0476	95.2	100-152	
Bis(2-chloroethoxy)methane	0.0500	0.0448	89.6	100-219	
Bis(2-chloroethyl)ether	0.0500	0.0389	77.8	33.0-185	
Bis(2-chloroisopropyl)ether	0.0500	0.0389	77.8	36.0-166	
Bis(2-Ethylhexyl)phthalate	0.0500	0.0472	94.4	8.00-158	
Carbazole	0.0500	0.0538	108	45.0-121	
Chrysene	0.0500	0.0455	91.0	17.0-168	
Di-n-butyl phthalate	0.0500	0.0482	96.4	100-120	
Di-n-octyl phthalate	0.0500	0.0478	95.6	4.00-146	
Dibenz(a,h)anthracene	0.0500	0.0455	91.0	100-227	
Dibenzofuran	0.0500	0.0438	87.6	42.0-120	
Diethyl phthalate	0.0500	0.0435	87.0	100-120	
Dimethyl phthalate	0.0500	0.0425	85.0	100-120	
Fluoranthene	0.0500	0.0453	90.6	26.0-137	
Fluorene	0.0500	0.0527	105	59.0-121	
Hexachloro-1,3-butadiene	0.0500	0.0437	87.4	24.0-120	
Hexachlorobenzene	0.0500	0.0439	87.8	100-152	
Hexachlorocyclopentadiene	0.0500	0.0444	88.8	10.0-120	
Hexachloroethane	0.0500	0.0376	75.2	40.0-120	
1,2-Diphenylhydrazine	0.0500	0.0421	84.2	37.0-125	
Indeno(1,2,3-cd)pyrene	0.0500	0.0421	84.2	100-171	
Isophorone	0.0500	0.0423	84.6	21.0-196	
n-Decane	0.0500	0.0315	63.0	10.0-127	
n-Nitrosodi-n-butylamine	0.0500	0.0390	78.0	39.0-127	
n-Nitrosodi-n-propylamine	0.0500	0.0409	81.8	100-230	
n-Nitrosodiethylamine	0.0500	0.0365	73.0	10.0-142	
n-Nitrosodimethylamine	0.0500	0.0236	47.2	10.0-120	
n-Nitrosodiphenylamine	0.0500	0.0391	78.2	44.0-120	
n-Octadecane	0.0500	0.0463	92.6	17.0-126	
Naphthalene	0.0500	0.0412	82.4	21.0-133	

N2



Laboratory Control Sample (LCS)

(LCS) R4061496-2 04/23/24 12:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrobenzene	0.0500	0.0420	84.0	35.0-180	
Nonylphenol	0.0500	0.0521	104	57.0-136	
Pentachlorobenzene	0.0500	0.0405	81.0	10.0-151	
Pentachlorophenol	0.0500	0.0474	94.8	14.0-176	
Phenanthrene	0.0500	0.0454	90.8	54.0-120	
Phenol	0.0500	0.0198	39.6	5.00-120	
Pyrene	0.0500	0.0438	87.6	52.0-120	
Pyridine	0.0500	0.0164	32.8	10.0-120	
Total Cresols	0.100	0.0650	65.0	36.0-110	
(S) 2,4,6-Tribromophenol			88.0	29.0-132	
(S) 2-Fluorobiphenyl			87.6	26.0-102	
(S) 2-Fluorophenol			48.5	10.0-66.0	
(S) Nitrobenzene-d5			87.5	15.0-106	
(S) p-Terphenyl-d14			94.9	10.0-120	
(S) Phenol-d6			37.7	10.0-54.0	

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
D1	Sample required dilution due to matrix.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
N2	Analyte reported using a calibration and validation based on Azobenzene (CAS 103-33-3). 1,2-Diphenylhydrazine decomposes into Azobenzene during the analysis.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

## Pace Analytical Services, LLC -Dallas 400 W. Bethany Drive Suite 190 Allen, TX 75013

Arkansas	88-0647	Kansas	E10388
Florida	E871118	Texas	T104704232-23-39
Iowa	408	Oklahoma	8727
Louisiana	30686		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





# Holiday Beach WSC

PO Box 807  
Fulton, TX 78358

Report to:

Vernon Hale

Project Description:

PERMIT REVIEWAL

Phone: 361-205-3184

City/State

WKA

Collected:

Rockport TX

Email To: water@hbwsc.com

Please Circle:

PT MT CT ET

Lab Project #

Site/Facility ID #

TX 0040015

Quote #

Rush? (Lab MUST Be Notified)

Same Day Five Day

Next Day 5 Day (Rad Only)

Two Day 10 Day (Rad Only)

Three Day

Date Results Needed

No. of

Cntrs

Time

Date

Depth

Matrix \*

Comp/Grab

WW

CRAB

RO DISCHARGE

18 APR 24 8:15A

17

18 APR 24 8:15A

17

18 APR 24 8:15A

17

18 APR 24 8:15A

17

18 APR 24 8:15A

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18 APR 24 8:15A

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18 APR 24 8:15A

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18 APR 24 8:15A

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18 APR 24 8:15A

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18 APR 24 8:15A

17

18 APR 24 8:15A

17

Billing Information:

Vernon Hale  
2611 Highway 35 North  
Rockport, TX 78382

Pres

Chk

Analysis / Container / Preservative

Chain of Custody

Page 1 of 2

Pace

PEOPLE ADVANCING SCIENCE

ALLEN, TX

400 W. Bethany Drive Suite 150 Allen, TX 75013  
Submitting a sample via this chain of custody  
constitutes acknowledgment and acceptance of the  
Pace Terms and Conditions found at:  
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # L1727467

Table #

Actnum: HOLBEAFTX

Template: T251266

Prelogin: P1069766

PM: 3587 - Lori A Vahrenkamp

PB:

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

-0

Metals 250mlHDPE HN03

Bioremediation 1L-HDPE NoPres

ALLV624.1 40mlClr-HCl

ALLTSS 1L-HDPE-NoPres

ALLTCC 250mlAmb-H2SO4

ALLSULFIDE 500mlHDPE-NaOH+ZnAc

ALLSUBLLHG 250mlClr

ALLPHOS 500mlHDPE-Add H2SO4

ALLGHEX 1L-Amb-Add HCl

ALLCN 250mlHDPE-NaOH

REC: FedEx 4/19/24 0930

REC: Originals Accepted 4/19/24 0930

PH

Temp

Flow

Other

Tracking # 7155 0316 3815

Received by: (Signature)

Time: 8:40A

Date: 18 APR 24

Received by: (Signature)

Time: 10:09A

Date: 18 APR 24

Received for lab by: (Signature)

Time: 10:09A

Date: 18 APR 24

4/18/24

100

100

100

100

100

100

100

Remarks: CoC Printed Front and Back.

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - Wastewater  
DW - Drinking Water  
OT - Other

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Sample Receipt Checklist

COC Seal Present/Intact: Y N

COC Signed/Accurate: Y N

Bottles arrive intact: Y N

Correct bottles used: Y N

Sufficient volume sent: Y N

If Applicable

VOA Zero Headspace: Y N

Preservation Correct/Checked: Y N

RAD Screen <0.5 mP/hr: Y N

If preservation required by Login: Date/Time

Hold:

Condition:

NCF / OK




[illegible]

7501  
TX - US  
EXP 06/24  
7501  
TX - US  
EXP 06/24  
7501  
TX - US  
EXP 06/24

7501  
TX-US  
DEFIN  
EXP 06/24  
135000



	Document Name:	Sample Condition Upon Receipt
	Document No.: F-DAL-C-001-rev.14	Issuing Authority: Pace Dallas Quality Office
Document Revised: 7/27/20		Page 1 of 1

☒ Dallas  
 ☐ Ft Worth  
 ☐ Corpus Christi  
 ☐ Austin

### Sample Condition Upon Receipt

Client Name: Holiday Beach WSC  
 Project Work order (place label): L1727407

Courier: Fedex ☐ UPS ☐ USPS ☐ Client ☐ LSO ☐ PACE ☐ Other:

Tracking #: 7155 0314 3915

Custody Seal on Cooler/Box: Yes ☒ No ☐

Received on ice: Wet ☒ Blue ☐ No ice ☐

Receiving Lab 1 Thermometer Used: 18.19

Receiving Lab 2 Thermometer Used: \_\_\_\_\_

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable

Triage Person: Ata Date: 4/19/24

Chain of Custody relinquished	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sampler name & signature on COC	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Short HT analyses (<72 hrs)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Login Person: SW Date: 4/19/24

Sufficient Volume received	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Correct Container used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Container Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample pH Acceptable	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Residual Chlorine Present	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
CI Strips:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Sulfide Present	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Lead Acetate Strips:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Unpreserved 5035A soil frozen within 48 hrs	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Headspace in VOA (>6mm)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Project sampled in USDA Regulated Area outside of Texas	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
State Sampled:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Non-Conformance(s):	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>

Labeling Person (if different than log-in): \_\_\_\_\_ Date: \_\_\_\_\_

Time estimate: oh

Time spent: oh

☐ 1. If Chain-of-custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

☐ 2. If COC is incomplete, check applicable issues below and add details where appropriate:

☐ \*Collection date/time missing or incorrect

☐ \*Analyses or analytes: missing or Clarification needed

☐ \*Samples listed on COC do not match samples received (missing, additional, etc.)

☐ \*Sample IDs on COC do not match sample Labels

☐ \*Required trip blanks were not received

☐ \*Required signatures are missing

☐ 3. Sample integrity issues: check applicable issues below and add details where appropriate:

☐ \*Samples: Past holding time

☐ \*Samples: Not Field Filtered

☐ \*Samples: Insufficient volume received

☐ \*Samples: Cooler damaged or compromised

☐ \*Samples: contain Chlorine or Sulfide

☐ \*Samples: condition needs to be brought to lab personnel's attention (details below)

☐ \*Containers: Broken or compromised

☐ \*Containers: Incorrect

☐ \*Custody Seals: missing or compromised on samples, trip blanks or coolers

☐ \*Packing Material: Insufficient/Improper

☒ \*Preservation: improper

☐ \*Temperature: not within acceptance criteria (typically 0-6C)

☐ \*Temperature: Samples arrived frozen

☐ \*Vials received with improper headspace

☐ \*Other:

☒ 4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

☐ Sample ID: RO Discharge

☐ Preserved by: AG

☐ Date/Time: 4/19 1129

☐ Initial and Final pH: 6 / 0

☐ Amount/type pres added: 2.5ml / HNO<sub>3</sub>

☐ Lot # of Pres added: 23L29472

☐ 5. Client contact: If Client is Contacted for any issue listed above, fill in details below:

☐ Client:

☐ PM Initials:

☐ Contacted per:

☐ Date/Time:

## Comments

Jeremy Watkins

Metals received PH of 6

19 April 2024 11:19 AM



Company Name/Address		Billing Information		Chain of Custody		Page 1 of 2	
<b>Holiday Beach WSC</b> PO Box 807 Fulton, TX 78358		<b>Vernon Hale</b> 2611 Highway 35 North Rockport, TX 78382		<b>Pace</b> PEOPLE ADVANCING SCIENCE ALLEN, TX 400 W. Anthony Drive Suite 100 Allen, TX 75013 Submitting a sample as the owner of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at http://www.pacelabs.com/hub/chain-standard-terms.pdf			
<b>Report to:</b> <b>Vernon Hale</b> Project Description: <b>PERMIT REVIEWAL</b> Phone: <b>361-205-3184</b>		<b>Email To:</b> water@hbwsc.com City/State: <b>WFLA</b> <b>FL</b> Client Project #: <b>084</b> Lab Project #: <b>TX 0040015</b>		<b>Pres</b> <b>Cnx</b>			
<b>Collected by (print):</b> <b>VERNON H HALE</b> <b>Collected by (signature):</b> <i>Vernon Hale</i> Immediately Packed on Ice N <u>  </u> Y <u>  </u>		<b>Site/Facility ID #</b> <b>TX 0040015</b> <b>Rush? (Lab MUST Be Notified)</b> Same Day <u>  </u> Five Day <u>  </u> Next Day <u>  </u> 5 Day (Rad Only) <u>  </u> Two Day <u>  </u> 10 Day (Rad Only) <u>  </u> Three Day <u>  </u>		<b>P.O. #</b> <b>Quote #</b> Date Results Needed No of Cntrs			
<b>Sample ID</b> <b>RO DISCHARGE</b>		<b>Comp/Grab</b> <b>WW</b>		<b>Date</b> <b>19 APR 24 3:15 PM</b>		<b>Time</b> <b>17</b>	
<b>Remarks: Loc Printed Front and Back.</b> <b>REL: Quijocabels Aguandaballeros 4/19/24 1700</b> <b>REC: FedEx 4/19/24 1700</b> <b>REL: FedEx 4/19/24 0930</b> <b>REC: Quijocabels Aguandaballeros 4/19/24 0930</b>							
<b>* Matrix:</b> SS - Soil    AIR - Air    F - Filter GW - Groundwater    B - Bioassay WW - Waste Water DW - Drinking Water OT - Other		<b>Samples returned via:</b> UPS <u>  </u> FedEx <u>  </u> Courier <u>  </u>		<b>Tracking #</b> <b>7155 0316 3815</b>		<b>Temp</b> pH <u>  </u> Flow <u>  </u> Other <u>  </u>	
<b>Relinquished by: (Signature)</b> <i>Vernon Hale</i>		<b>Date:</b> <b>18 APR 24 3:42 PM</b>		<b>Received by (Signature)</b> <i>Paula</i>		<b>Temp: TL46 °C</b> <b>0.9401-1.0</b>	
<b>Relinquished by: (Signature)</b> <i>Paula</i>		<b>Date:</b> <b>18 APR 24 10:16 AM</b>		<b>Received for lab by (Signature)</b> <i>Paula</i>		<b>Date:</b> <b>0.9401-1.0</b>	
<b>Relinquished by: (Signature)</b> <i>Paula</i>		<b>Date:</b> <b>18 APR 24 10:16 AM</b>		<b>Received for lab by (Signature)</b> <i>Paula</i>		<b>Date:</b> <b>0.9401-1.0</b>	
<b>Relinquished by: (Signature)</b> <i>Paula</i>		<b>Date:</b> <b>18 APR 24 10:16 AM</b>		<b>Received for lab by (Signature)</b> <i>Paula</i>		<b>Date:</b> <b>0.9401-1.0</b>	
<b>Relinquished by: (Signature)</b> <i>Paula</i>		<b>Date:</b> <b>18 APR 24 10:16 AM</b>		<b>Received for lab by (Signature)</b> <i>Paula</i>		<b>Date:</b> <b>0.9401-1.0</b>	
<b>Relinquished by: (Signature)</b> <i>Paula</i>		<b>Date:</b> <b>18 APR 24 10:16 AM</b>		<b>Received for lab by (Signature)</b> <i>Paula</i>		<b>Date:</b> <b>0.9401-1.0</b>	
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<b>Relinquished by: (Signature)</b> <i>Paula</i>							



[illegible]



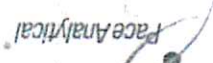
**AD DIA**

FedEx  
TRK# 7155 0316 3815  
0221

FRI - 19 APR 10:30A  
PRIORITY OVERNIGHT  
75013  
TX-US DEW

07-435 0072



	
Document Name: Sample Condition Upon Receipt	Document No.: F-DAL-C-001-rev.14
Document Revised: 7/27/20 Page 1 of 1	Issuing Authority: Pace Dallas Quality Office

☒ Dallas  
 ☐ Ft Worth  
 ☐ Corpus Christi  
 ☐ Austin

### Sample Condition Upon Receipt

Project Work order (place label):

**Holiday Beach WSC**

**L1727407**

Client Name: \_\_\_\_\_  
 Courier: FedEx ☐ UPS ☐ USPS ☐ Client ☐ LSO ☐ PACE ☐ Other: \_\_\_\_\_  
 Tracking #: **7155 0316 3915**  
 Custody Seal on Cooler/Box: Yes ☒ No ☐  
 Received on ice: Wet ☐ Blue ☐ No ice ☐  
 Receiving Lab 1 Thermometer Used: **12.19**  
 Receiving Lab 2 Thermometer Used: \_\_\_\_\_  
 Cooler Temp °C: **3.3** (Recorded) **40.2** (Correction Factor) **3.5** (Actual)  
 Cooler Temp °C: \_\_\_\_\_ (Recorded) \_\_\_\_\_ (Correction Factor) \_\_\_\_\_ (Actual)

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable

Triage Person: **Atg** Date: **4/19/21**

Chain of Custody relinquished	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sampler name & signature on COC	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Short HT analyses (<72 hrs)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Login Person: **SW** Date: **4/19/21**

Sufficient Volume received	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Correct Container used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Container Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample pH Acceptable	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
pH Strips: <b>6.300004</b>	
Residual Chlorine Present	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
CI Strips: <b>148460</b>	
Sulfide Present	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Lead Acetate Strips: <b>148462</b>	
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Unpreserved 5035A soil frozen within 48 hrs	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Headspace in VOA (>6mm)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Project sampled in USDA Regulated Area outside of Texas	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
State Sampled:	
Non-Conformance(s):	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <b>SW</b>

Labeling Person (if different than log-in): \_\_\_\_\_ Date: \_\_\_\_\_



Time estimate: oh

Time spent: oh

1. If Chain-of-custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

\* Collection date/time missing or incorrect  
\* Analyses or analytes: missing or Clarification needed

\* Samples listed on COC do not match samples received (missing, additional, etc.)  
\* Sample IDs on COC do not match sample Labels

\* Required trip blanks were not received  
\* Required signatures are missing

3. Sample integrity issues: check applicable issues below and add details where appropriate:  
\* Samples: Past holding time  
\* Samples: Not Field Filtered  
\* Samples: Insufficient volume received  
\* Samples: Cooler damaged or compromised  
\* Samples: contain Chlorine or Sulfide  
\* Samples: condition needs to be brought to lab personnel's attention (details below)

\* Containers: Broken or compromised  
\* Containers: Incorrect

\* Custody Seals: missing or compromised on samples, trip blanks or coolers  
\* Packing Material: Insufficient/Improper

\* Preservation: improper  
\* Temperature: not within acceptance criteria (typically 0-6C)  
\* Temperature: Samples arrived frozen

\* Vials received with improper headspace  
\* Other:

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:  
Sample ID: RO Discharge  
Preserved by: AG  
Date/Time: 4/19 1129  
Initial and Final pH: 6 / 0  
Amount/type pres added: 2.5ml / HNO3  
Lot # of Pres added: 23L29472

5. Client contact: If Client is Contacted for any issue listed above, fill in details below:  
Client:  
PM Initials:  
Contacted per:  
Date/Time:

Comments

Jeremy Watkins

Metals received PH of 6

19 April 2024 11:19 AM



Pace Analytical Services, LLC  
1241 Bellevue Street - Suite 9  
Green Bay, WI 54302  
(920)469-2436

April 26, 2024

Jeremy Watkins  
Pace Analytical Dallas  
400 West Bethany Drive  
Suite 190  
Allen, TX 75013

RE: Project: L1727407 PERMIT RENEWAL WK1/4  
Pace Project No.: 40277176

Dear Jeremy Watkins:

Enclosed are the analytical results for sample(s) received by the laboratory on April 20, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela Lane  
angela.lane@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures

cc: Client Services, Pace Analytical Allen



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: L1727407 PERMIT RENEWAL WK1/4  
Pace Project No.: 40277176

---

### Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302  
Florida/NELAP Certification #: E87948  
Illinois Certification #: 200050  
Kentucky UST Certification #: 82  
Louisiana Certification #: 04168  
Minnesota Certification #: 055-999-334  
New York Certification #: 12064  
North Dakota Certification #: R-150

South Carolina Certification #: 83006001  
Texas Certification #: T104704529-21-8  
Virginia VELAP Certification ID: 11873  
Wisconsin Certification #: 405132750  
Wisconsin DATCP Certification #: 105-444  
USDA Soil Permit #: P330-21-00008  
Federal Fish & Wildlife Permit #: 51774A

---

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Pace Analytical Services, LLC  
1241 Bellevue Street - Suite 9  
Green Bay, WI 54302  
(920)469-2436

## SAMPLE SUMMARY

Project: L1727407 PERMIT RENEWAL WK1/4  
Pace Project No.: 40277176

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40277176001	RO DISCHARGE	Water	04/18/24 08:15	04/20/24 10:00

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## SAMPLE ANALYTE COUNT

Project: L1727407 PERMIT RENEWAL WK1/4  
Pace Project No.: 40277176

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40277176001	RO DISCHARGE	EPA 1631E	MRP	1

PASI-G = Pace Analytical Services - Green Bay

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: L1727407 PERMIT RENEWAL WK1/4

Pace Project No.: 40277176

Sample: RO DISCHARGE		Lab ID: 40277176001	Collected: 04/18/24 08:15	Received: 04/20/24 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level		Analytical Method: EPA 1631E Preparation Method: EPA 1631E Pace Analytical Services - Green Bay						
Mercury	ND	ng/L	0.50	1	04/22/24 12:04	04/24/24 14:02	7439-97-6	

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## QUALITY CONTROL DATA

Project: L1727407 PERMIT RENEWAL WK1/4

Pace Project No.: 40277176

QC Batch:	472291	Analysis Method:	EPA 1631E
QC Batch Method:	EPA 1631E	Analysis Description:	1631E Mercury
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40277176001

METHOD BLANK: 2705242 Matrix: Water

Associated Lab Samples: 40277176001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	04/24/24 12:24	

METHOD BLANK: 2705243 Matrix: Water

Associated Lab Samples: 40277176001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	04/24/24 13:55	

METHOD BLANK: 2705244 Matrix: Water

Associated Lab Samples: 40277176001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	04/24/24 15:37	

METHOD BLANK: 2705245 Matrix: Water

Associated Lab Samples: 40277176001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.53	04/24/24 12:31	

LABORATORY CONTROL SAMPLE: 2705246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ng/L	5	4.90	98	79-121	

LABORATORY CONTROL SAMPLE: 2705247

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ng/L	5	4.28	86	79-121	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: L1727407 PERMIT RENEWAL WK1/4

Pace Project No.: 40277176

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2707559 2707560												
Parameter	Units	40277137001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	0.746	2	2	2.37	2.40	81	83	75-125	1	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2707561 2707562												
Parameter	Units	40277138004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	18.1	20	20	35.3	35.3	86	86	75-125	0	24	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: L1727407 PERMIT RENEWAL WK1/4  
Pace Project No.: 40277176

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
ND - Not Detected at or above adjusted reporting limit.  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1727407 PERMIT RENEWAL WK1/4  
Pace Project No.: 40277176

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40277176001	RO DISCHARGE	EPA 1631E	472291	EPA 1631E	472746

## REPORT OF LABORATORY ANALYSIS

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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 Of 1

ITEM #	MATRIX Drinking Water Waste Water Product Solid Vapor Air Other Tissue	CODE DW WT WW P SL CL WP AP OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				# OF CONTAINERS	PRESERVATIVES								Y/N	Analyses Test	Low Level Hg	Residual Chlorine (Y/N)
					START		END			H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other					
					DATE	TIME	DATE	TIME													

1	RO DISCHARGE	WT				18-Apr	8:15	1									X		091
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
Pace Analytical Batch WG2270701	Pace		4/19/24		1400		FedEx		4/19/24		1400			
Pace Analytical SDGs: L1727407	Pace		4/21/24		1000		Pa Mulvey		4/21/24		1000			
Location: Green Bay, WI 54302														

SAMPLER NAME AND SIGNATURE		TEMP IN C	Received on	Custody	Sealed	Coated	(Y/N)	Interact	Samples
PRINT Name of SAMPLER:									
SIGNATURE of SAMPLER:									

Client Name: Face Tx

☐ N/A

Initial when completed. *RV* Date/ Time:

☐ N/A

**Lab Std #ID of preservation (if pH adjusted):**

Time:

[illegible]

	BP1U	VG9C	HCl	JGFU
AG1U1 1 liter amber glass	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU
BG1U1 1 liter clear glass	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U
AG1H1 1 liter amber glass HCL	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU
AG4S 125 mL amber glass H <sub>2</sub> SO <sub>4</sub>	250 mL plastic HNO <sub>3</sub>	VG9H	40 mL clear vial HCL	WPFU
AG5U 100 mL amber glass unpres	250 mL plastic H <sub>2</sub> SO <sub>4</sub>	VG9M	40 mL clear vial MeOH	SP5T
AG2S 500 mL amber glass H <sub>2</sub> SO <sub>4</sub>	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC
BG3U1 250 mL clear glass unpres				GN 1
				GN 2



Sample Condition Upon Receipt Form (SCUR)

Client Name:

Pace Tx

Project #:

WO#: 40277176

Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Walto

☐ Client ☐ Pace Other:

Tracking #: 7343 1444 5190



Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - NA Type of Ice: Wet Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: NA /Corr: NA

Temp Blank Present: ☐ yes ☒ no Biological Tissue is Frozen: ☐ yes ☐ no

Person examining contents:

Date: 4/20/24 Initials: PV

Labeled By Initials: OB

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	4. IRWB PV 4/20/24
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: Pace Green Bay, Pace DR, Non-Pace		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

If checked, see attached form for additional comments ☐

Person Contacted:

Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

Page 2 of 2



# ANALYTICAL REPORT

May 10, 2024

## Holiday Beach WSC

Sample Delivery Group: L1728708  
Samples Received: 04/24/2024  
Project Number:  
Description: Permit Renewal Week 2  
Site: TX0040015  
Report To: Vernon Hale  
PO Box 807  
Fulton, TX 78358

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Entire Report Reviewed By:

Lori A Vahrenkamp  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com



# TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
RO DISCHARGE L1728708-01	5
Qc: Quality Control Summary	11
Gravimetric Analysis by Method 2540C	11
Gravimetric Analysis by Method 2540D	12
Wet Chemistry by Method 1664A	13
Wet Chemistry by Method 2120B	14
Wet Chemistry by Method 2320B	15
Wet Chemistry by Method 300.0	16
Wet Chemistry by Method 3500Cr-B	18
Wet Chemistry by Method 351.2	19
Wet Chemistry by Method 353.2	20
Wet Chemistry by Method 4500CN-E	22
Wet Chemistry by Method 4500P-E	23
Wet Chemistry by Method 4500-S2 D	24
Wet Chemistry by Method 5210 B-2016	25
Wet Chemistry by Method 5220D	27
Wet Chemistry by Method 5310C	28
Wet Chemistry by Method 5540C	29
Wet Chemistry by Method SM 4500-H+B	30
Wet Chemistry by Method SM4500NH3H	31
Metals (ICP) by Method 200.7	32
Volatile Organic Compounds (GC/MS) by Method 624.1	35
Pesticides (GC) by Method EPA 608.3	38
Polychlorinated Biphenyls (GC) by Method EPA-608.3	41
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	42
Gl: Glossary of Terms	49
Al: Accreditations & Locations	50
Sc: Sample Chain of Custody	51

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

9 Al

5 Sc



# SAMPLE SUMMARY

RO DISCHARGE L1728708-01 WW

Collected by  
Vernon H Hale

Collected date/time  
04/23/24 08:15

Received date/time  
04/24/24 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2274706	1	04/27/24 12:53	04/27/24 12:53	SKH	Allen, TX
Gravimetric Analysis by Method 2540C	WG2273698	1	04/24/24 16:00	04/24/24 16:45	QQT	Allen, TX
Gravimetric Analysis by Method 2540D	WG2275083	1	04/26/24 09:50	04/26/24 12:07	QQT	Allen, TX
Wet Chemistry by Method 1664A	WG2275590	1	04/29/24 09:38	04/29/24 15:45	TK	Allen, TX
Wet Chemistry by Method 2120B	WG2273866	1	04/24/24 19:50	04/24/24 19:50	EIG	Allen, TX
Wet Chemistry by Method 2320B	WG2276944	1	04/30/24 08:43	04/30/24 08:43	SEN	Allen, TX
Wet Chemistry by Method 300.0	WG2276983	10	05/01/24 18:39	05/01/24 18:39	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2276983	100	05/01/24 18:55	05/01/24 18:55	GEB	Mt. Juliet, TN
Wet Chemistry by Method 3500Cr-B	WG2274146	1	04/25/24 10:03	04/25/24 10:03	SMC	Allen, TX
Wet Chemistry by Method 351.2	WG2275846	1	04/27/24 15:05	04/27/24 22:46	EIG	Allen, TX
Wet Chemistry by Method 353.2	WG2273745	1	04/24/24 18:48	04/24/24 18:48	EIG	Allen, TX
Wet Chemistry by Method 353.2	WG2277450	1	04/30/24 16:01	04/30/24 16:01	EIG	Allen, TX
Wet Chemistry by Method 4500CN-E	WG2274189	1	04/25/24 13:15	04/25/24 16:38	KCM	Allen, TX
Wet Chemistry by Method 4500P-E	WG2276365	10	04/29/24 17:02	04/29/24 17:02	SMC	Allen, TX
Wet Chemistry by Method 4500-S2 D	WG2273867	1	04/24/24 21:10	04/24/24 21:10	EIG	Allen, TX
Wet Chemistry by Method 5210 B-2016	WG2273309	1	04/24/24 14:47	04/29/24 09:23	JBS	Allen, TX
Wet Chemistry by Method 5210 B-2016	WG2273312	1	04/24/24 17:45	04/29/24 12:40	SEN	Allen, TX
Wet Chemistry by Method 5220D	WG2276946	1	04/30/24 13:21	04/30/24 13:41	JBS	Allen, TX
Wet Chemistry by Method 5310C	WG2277108	1	04/30/24 15:46	04/30/24 15:46	SMC	Allen, TX
Wet Chemistry by Method 5540C	WG2273766	1	04/24/24 19:24	04/24/24 19:33	EIG	Allen, TX
Wet Chemistry by Method SM 4500-H+B	WG2276644	1	04/29/24 13:29	04/29/24 13:29	SEN	Allen, TX
Wet Chemistry by Method SM4500NH3H	WG2274576	1	04/25/24 17:10	04/25/24 17:10	EIG	Allen, TX
Metals (ICP) by Method 200.7	WG2274706	1	04/25/24 18:30	04/27/24 12:53	SKH	Allen, TX
Volatile Organic Compounds (GC/MS) by Method 624.1	WG2274644	1	04/25/24 21:22	04/25/24 21:22	ZST	Allen, TX
Pesticides (GC) by Method EPA 608.3	WG2275763	1	04/27/24 19:53	04/28/24 13:42	LTB	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method EPA-608.3	WG2275763	1	04/27/24 19:53	04/28/24 13:42	LTB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG2273235	1	04/24/24 13:40	04/30/24 18:59	XLY	Allen, TX
Subcontracted Analyses	WG2273737	1	05/03/24 00:00	05/03/24 00:00	JWW	Green Bay, WI 54302

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

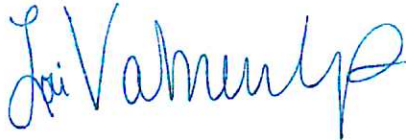
7 Gl

8 Al

9 Sc

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Lori A Vahrenkamp  
Project Manager

## Project Narrative

L1728708 -01 contains subout data that is included after the chain of custody.

## Sample Delivery Group (SDG) Narrative

An aliquot for analysis was taken from the original container received due to volume requirements of the laboratory's procedure. Rinsing of the original sample container for inclusion in the sample extraction was not performed.

Lab Sample ID	Project Sample ID	Method
<a href="#">L1728708-01</a>	<a href="#">RO DISCHARGE</a>	EPA-608.3, EPA 608.3

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

Lab Sample ID	Project Sample ID	Method
<a href="#">L1728708-01</a>	<a href="#">RO DISCHARGE</a>	3500Cr-B

The Laboratory is not accredited for specific analytes on the associated Sample/Method. These analytes are flagged in the Sample Results section of the report with an asterisk (\*).

Lab Sample ID	Project Sample ID	Method
<a href="#">L1728708-01</a>	<a href="#">RO DISCHARGE</a>	300.0

1 Cp

2 Ce

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc



## RO DISCHARGE

Collected date/time: 04/23/24 08:15

## SAMPLE RESULTS - 01

L1728708

## Calculated Results

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chromium, Trivalent	<0.000710		0.000710	0.00300	1	04/27/2024 12:53	<a href="#">WG2274706</a>

## Gravimetric Analysis by Method 2540C

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Total Dissolved Solids	9760		50.0	1	04/24/2024 16:45	<a href="#">WG2273698</a>

## Gravimetric Analysis by Method 2540D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Suspended Solids	9.65		2.90	1	04/26/2024 12:07	<a href="#">WG2275083</a>

## Wet Chemistry by Method 1664A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Oil & Grease (Hexane Extr)	<0.398		0.398	5.68	1	04/29/2024 15:45	<a href="#">WG2275590</a>

## Wet Chemistry by Method 2120B

Analyte	Result units	Qualifier	RDL units	Dilution	Analysis date / time	Batch
Color	5.00		5.00	1	04/24/2024 19:50	<a href="#">WG2273866</a>

## Sample Narrative:

L1728708-01 WG2273866: 6

## Wet Chemistry by Method 2320B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	2060		20.0	20.0	1	04/30/2024 08:43	<a href="#">WG2276944</a>
Alkalinity, Bicarbonate	2060		20.0	20.0	1	04/30/2024 08:43	<a href="#">WG2276944</a>
Alkalinity, Carbonate	<20.0		20.0	20.0	1	04/30/2024 08:43	<a href="#">WG2276944</a>
Alkalinity, Hydroxide	<20.0		20.0	20.0	1	04/30/2024 08:43	<a href="#">WG2276944</a>
Phenolphthalein Alkalinity	<20.0		20.0	20.0	1	04/30/2024 08:43	<a href="#">WG2276944</a>

## Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bromide	34.3		3.53	10.0	10	05/01/2024 18:39	<a href="#">WG2276983</a>
Chloride	4490		37.9	100	100	05/01/2024 18:55	<a href="#">WG2276983</a>
Iodide	4.09		0.640	1.50	10	05/01/2024 18:39	<a href="#">WG2276983</a>
Sulfate	1050		5.94	50.0	10	05/01/2024 18:39	<a href="#">WG2276983</a>

## Wet Chemistry by Method 3500Cr-B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chromium, Hexavalent	<0.00200	<a href="#">T8</a>	0.00200	0.00300	1	04/25/2024 10:03	<a href="#">WG2274146</a>

## Wet Chemistry by Method 351.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Orpheidahl Nitrogen, TKN	0.766		0.140	0.250	1	04/27/2024 22:46	<a href="#">WG2275846</a>



## RO DISCHARGE

Collected date/time: 04/23/24 08:15

## SAMPLE RESULTS - 01

L1728708

## Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	<0.0300		0.0300	0.0500	1	04/24/2024 18:48	<a href="#">WG2273745</a>
Nitrate-Nitrite	0.0658		0.0300	0.0500	1	04/30/2024 16:01	<a href="#">WG2277450</a>
Nitrate	<0.0300		0.0300	0.0500	1	04/24/2024 18:48	<a href="#">WG2273745</a>
Nitrite	<0.0300		0.0300	0.0500	1	04/24/2024 18:48	<a href="#">WG2273745</a>

## Wet Chemistry by Method 4500CN-E

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Cyanide	<0.00430		0.00430	0.0100	1	04/25/2024 16:38	<a href="#">WG2274189</a>

## Wet Chemistry by Method 4500P-E

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Phosphorus, Total	3.21		0.152	0.500	10	04/29/2024 17:02	<a href="#">WG2276365</a>

## Wet Chemistry by Method 4500-S2 D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	<0.0230	<a href="#">J6</a>	0.0230	0.100	1	04/24/2024 21:10	<a href="#">WG2273867</a>

## Wet Chemistry by Method 5210 B-2016

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
BOD	<1.00		1.00	1	1	04/29/2024 09:23	<a href="#">WG2273309</a>
CBOD	<1.00		1.00	1	1	04/29/2024 12:40	<a href="#">WG2273312</a>

## Wet Chemistry by Method 5220D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
COD	223		16.1	35.0	1	04/30/2024 13:41	<a href="#">WG2276946</a>

## Wet Chemistry by Method 5310C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4.45		0.270	0.700	1	04/30/2024 15:46	<a href="#">WG2277108</a>

## Wet Chemistry by Method 5540C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
MBAS	<0.360	<a href="#">J5</a>	0.350	0.500	1	04/24/2024 19:33	<a href="#">WG2273766</a>

## Wet Chemistry by Method SM 4500-H+B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
pH	8.26	<a href="#">T8</a>			1	04/29/2024 13:29	<a href="#">WG2276644</a>

## Sample Narrative:

L1728708-01 WG2276644: 8.26 at 19.7C

## Wet Chemistry by Method SM4500NH3H

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch

## RO DISCHARGE

Collected date/time: 04/23/24 08:15

## SAMPLE RESULTS - 01

L1728708

## Wet Chemistry by Method SM4500NH3H

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	0.695		0.0280	0.100	1	04/25/2024 17:10	WG2274576

## Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	<0.0353		0.0353	0.500	1	04/27/2024 12:53	WG2274706
Antimony	<0.00242		0.00242	0.0250	1	04/27/2024 12:53	WG2274706
Arsenic	0.00608	J	0.00418	0.0200	1	04/27/2024 12:53	WG2274706
Barium	0.273		0.000490	0.0100	1	04/27/2024 12:53	WG2274706
Beryllium	<0.000180		0.000180	0.00100	1	04/27/2024 12:53	WG2274706
Boron	2.71		0.0186	0.100	1	04/27/2024 12:53	WG2274706
Cadmium	0.000524	J	0.000350	0.00500	1	04/27/2024 12:53	WG2274706
Chromium	<0.000710		0.000710	0.00700	1	04/27/2024 12:53	WG2274706
Cobalt	<0.000680		0.000680	0.00250	1	04/27/2024 12:53	WG2274706
Copper	<0.00364		0.00364	0.0200	1	04/27/2024 12:53	WG2274706
Iron	1.69		0.0303	0.500	1	04/27/2024 12:53	WG2274706
Lead	0.0114		0.00312	0.0100	1	04/27/2024 12:53	WG2274706
Magnesium	173		0.0434	1.00	1	04/27/2024 12:53	WG2274706
Manganese	0.572		0.00557	0.0500	1	04/27/2024 12:53	WG2274706
Molybdenum	0.158		0.00760	0.0300	1	04/27/2024 12:53	WG2274706
Nickel	0.0143		0.00358	0.0100	1	04/27/2024 12:53	WG2274706
Selenium	<0.00500		0.00500	0.0200	1	04/27/2024 12:53	WG2274706
Silver	<0.000990		0.000990	0.00500	1	04/27/2024 12:53	WG2274706
Thallium	<0.00775		0.00775	0.0200	1	04/27/2024 12:53	WG2274706
Tin	<0.00240		0.00240	0.0250	1	04/27/2024 12:53	WG2274706
Titanium	<0.00835		0.00835	0.100	1	04/27/2024 12:53	WG2274706
Zinc	0.0206	J	0.0106	0.0250	1	04/27/2024 12:53	WG2274706

## Volatile Organic Compounds (GC/MS) by Method 624.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1-Trichloroethane	<0.00335		0.00335	0.00500	1	04/25/2024 21:22	WG2274644
1,1,2,2-Tetrachloroethane	<0.000596		0.000596	0.00500	1	04/25/2024 21:22	WG2274644
1,2-Trichloroethane	<0.00145		0.00145	0.00500	1	04/25/2024 21:22	WG2274644
1-Dichloroethane	<0.00292		0.00292	0.00500	1	04/25/2024 21:22	WG2274644
1-Dichloroethene	<0.00367		0.00367	0.00500	1	04/25/2024 21:22	WG2274644
2-Dichlorobenzene	<0.00172		0.00172	0.00200	1	04/25/2024 21:22	WG2274644
2-Dichloroethane	<0.00195		0.00195	0.00500	1	04/25/2024 21:22	WG2274644
2-Dichloropropane	<0.000804		0.000804	0.00200	1	04/25/2024 21:22	WG2274644
3-Dichlorobenzene	<0.00419		0.00419	0.00500	1	04/25/2024 21:22	WG2274644
4-Dichlorobenzene	<0.00173		0.00173	0.00200	1	04/25/2024 21:22	WG2274644
-Chloroethyl vinyl ether	<0.00652		0.00652	0.0100	1	04/25/2024 21:22	WG2274644
crolein	<0.00544		0.00544	0.0100	1	04/25/2024 21:22	WG2274644
crylonitrile	<0.00709		0.00709	0.0100	1	04/25/2024 21:22	WG2274644
enzene	<0.00207		0.00207	0.00500	1	04/25/2024 21:22	WG2274644
romodichloromethane	<0.00179		0.00179	0.00200	1	04/25/2024 21:22	WG2274644
romoform	<0.000960		0.000960	0.0100	1	04/25/2024 21:22	WG2274644
romomethane	<0.00347		0.00347	0.00500	1	04/25/2024 21:22	WG2274644
arbon tetrachloride	<0.00159		0.00159	0.00200	1	04/25/2024 21:22	WG2274644
lorobenzene	<0.00276		0.00276	0.0100	1	04/25/2024 21:22	WG2274644
loroethane	<0.00296		0.00296	0.00500	1	04/25/2024 21:22	WG2274644
loroform	<0.00212		0.00212	0.00500	1	04/25/2024 21:22	WG2274644
loromethane	<0.00361		0.00361	0.00500	1	04/25/2024 21:22	WG2274644
s-1,2-Dichloroethene	<0.00113		0.00113	0.00500	1	04/25/2024 21:22	WG2274644
s-1,3-Dichloropropene	<0.00492		0.00492	0.0100	1	04/25/2024 21:22	WG2274644

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1728708

DATE/TIME:

05/10/24 12:34

PAGE:

7 of 72



## RO DISCHARGE

Collected date/time: 04/23/24 08:15

## SAMPLE RESULTS - 01

L1728708

## Volatile Organic Compounds (GC/MS) by Method 624.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Dibromochloromethane	<0.00327		0.00327	0.00500	1	04/25/2024 21:22	WG2274644
Ethylbenzene	<0.000401		0.000401	0.00200	1	04/25/2024 21:22	WG2274644
Methylene Chloride	<0.0117		0.0117	0.0200	1	04/25/2024 21:22	WG2274644
Tetrachloroethene	<0.00486		0.00486	0.0100	1	04/25/2024 21:22	WG2274644
Toluene	<0.00219		0.00219	0.00500	1	04/25/2024 21:22	WG2274644
Total 1,3-Dichloropropene	<0.00372		0.00372	0.0100	1	04/25/2024 21:22	WG2274644
trans-1,2-Dichloroethene	<0.00501		0.00501	0.0100	1	04/25/2024 21:22	WG2274644
trans-1,3-Dichloropropene	<0.00460		0.00460	0.00500	1	04/25/2024 21:22	WG2274644
Trichloroethene	<0.00262		0.00262	0.00500	1	04/25/2024 21:22	WG2274644
Vinyl chloride	<0.00466		0.00466	0.00500	1	04/25/2024 21:22	WG2274644
(S) 1,2-Dichloroethane-d4	102			70.0-130		04/25/2024 21:22	WG2274644
(S) 4-Bromofluorobenzene	99.6			70.0-130		04/25/2024 21:22	WG2274644
(S) Toluene-d8	102			70.0-130		04/25/2024 21:22	WG2274644

## Pesticides (GC) by Method EPA 608.3

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Aldrin	<0.0000198		0.0000198	0.0000500	1	04/28/2024 13:42	WG2275763
Alpha BHC	<0.0000172		0.0000172	0.0000500	1	04/28/2024 13:42	WG2275763
Beta BHC	<0.0000208		0.0000208	0.0000500	1	04/28/2024 13:42	WG2275763
Delta BHC	<0.0000150		0.0000150	0.0000500	1	04/28/2024 13:42	WG2275763
Gamma BHC	<0.0000209		0.0000209	0.0000500	1	04/28/2024 13:42	WG2275763
Chlordane	<0.0000198		0.0000198	0.00500	1	04/28/2024 13:42	WG2275763
4,4-DDD	<0.0000177		0.0000177	0.0000500	1	04/28/2024 13:42	WG2275763
4,4-DDE	<0.0000154		0.0000154	0.0000500	1	04/28/2024 13:42	WG2275763
4,4-DDT	<0.0000198		0.0000198	0.0000500	1	04/28/2024 13:42	WG2275763
Dieldrin	<0.0000162		0.0000162	0.0000500	1	04/28/2024 13:42	WG2275763
Endosulfan I	<0.0000160		0.0000160	0.0000500	1	04/28/2024 13:42	WG2275763
Endosulfan II	<0.0000164		0.0000164	0.0000500	1	04/28/2024 13:42	WG2275763
Endosulfan sulfate	<0.0000217		0.0000217	0.0000500	1	04/28/2024 13:42	WG2275763
Endrin	<0.0000161		0.0000161	0.0000500	1	04/28/2024 13:42	WG2275763
Endrin aldehyde	<0.0000237		0.0000237	0.0000500	1	04/28/2024 13:42	WG2275763
Endrin ketone	<0.0000219		0.0000219	0.0000500	1	04/28/2024 13:42	WG2275763
Heptachlor	<0.0000148		0.0000148	0.0000500	1	04/28/2024 13:42	WG2275763
Heptachlor epoxide	<0.0000183		0.0000183	0.0000500	1	04/28/2024 13:42	WG2275763
Hexachlorobenzene	<0.0000176		0.0000176	0.0000500	1	04/28/2024 13:42	WG2275763
Methoxychlor	<0.0000193		0.0000193	0.0000500	1	04/28/2024 13:42	WG2275763
Toxaphene	<0.000168		0.000168	0.000500	1	04/28/2024 13:42	WG2275763
gamma-Chlordane	<0.0000137		0.0000137	0.0000500	1	04/28/2024 13:42	WG2275763
alpha-Chlordane	<0.0000149		0.0000149	0.0000500	1	04/28/2024 13:42	WG2275763
(S) Decachlorobiphenyl	42.8			10.0-144		04/28/2024 13:42	WG2275763
(S) Tetrachloro-m-xylene	84.9			10.0-135		04/28/2024 13:42	WG2275763

## Polychlorinated Biphenyls (GC) by Method EPA-608.3

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
PCB 1016	<0.000270		0.000270	0.000500	1	04/28/2024 13:42	WG2275763
PCB 1221	<0.000270		0.000270	0.000500	1	04/28/2024 13:42	WG2275763
PCB 1232	<0.000270		0.000270	0.000500	1	04/28/2024 13:42	WG2275763
PCB 1242	<0.000270		0.000270	0.000500	1	04/28/2024 13:42	WG2275763
PCB 1248	<0.000173		0.000173	0.000500	1	04/28/2024 13:42	WG2275763
PCB 1254	<0.000173		0.000173	0.000500	1	04/28/2024 13:42	WG2275763
PCB 1260	<0.000173		0.000173	0.000500	1	04/28/2024 13:42	WG2275763
Total PCBs	<0.000173		0.000173	0.000500	1	04/28/2024 13:42	WG2275763
(S) Decachlorobiphenyl	44.2			10.0-144		04/28/2024 13:42	WG2275763



## RO DISCHARGE

## SAMPLE RESULTS - 01

Collected date/time: 04/23/24 08:15

L1728708

## Polychlorinated Biphenyls (GC) by Method EPA-608.3

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) Tetrachloro-m-xylene	89.9			10.0-135		04/28/2024 13:42	WG2275763

## Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4,5-Tetrachlorobenzene	<0.00132		0.00132	0.00250	1	04/30/2024 18:59	WG2273235
1,2,4-Trichlorobenzene	<0.00159		0.00159	0.00250	1	04/30/2024 18:59	WG2273235
1,2-Dichlorobenzene	<0.00168		0.00168	0.00250	1	04/30/2024 18:59	WG2273235
1,3-Dichlorobenzene	<0.00170		0.00170	0.00250	1	04/30/2024 18:59	WG2273235
1,4-Dichlorobenzene	<0.00184		0.00184	0.00250	1	04/30/2024 18:59	WG2273235
2,2-Oxybis(1-Chloropropane)	<0.00116		0.00116	0.00250	1	04/30/2024 18:59	WG2273235
2,4,5-Trichlorophenol	<0.00193		0.00193	0.00250	1	04/30/2024 18:59	WG2273235
2,4,6-Trichlorophenol	<0.00179		0.00179	0.00250	1	04/30/2024 18:59	WG2273235
2,4-Dichlorophenol	<0.000820		0.000820	0.00250	1	04/30/2024 18:59	WG2273235
2,4-Dimethylphenol	<0.00142		0.00142	0.00500	1	04/30/2024 18:59	WG2273235
2,4-Dinitrophenol	<0.00115		0.00115	0.00500	1	04/30/2024 18:59	WG2273235
2,4-Dinitrotoluene	<0.00265		0.00265	0.00500	1	04/30/2024 18:59	WG2273235
2,6-Dichlorophenol	<0.00107		0.00107	0.00250	1	04/30/2024 18:59	WG2273235
2,6-Dinitrotoluene	<0.00181		0.00181	0.00500	1	04/30/2024 18:59	WG2273235
2-Chloronaphthalene	<0.00143		0.00143	0.00250	1	04/30/2024 18:59	WG2273235
2-Chlorophenol	<0.000820		0.000820	0.00250	1	04/30/2024 18:59	WG2273235
2-Methylphenol	<0.000760		0.000760	0.00500	1	04/30/2024 18:59	WG2273235
2-Nitrophenol	<0.00169		0.00169	0.00250	1	04/30/2024 18:59	WG2273235
3&4-Methyl Phenol	<0.000767		0.000767	0.00250	1	04/30/2024 18:59	WG2273235
3,3-Dichlorobenzidine	<0.00265		0.00265	0.00500	1	04/30/2024 18:59	WG2273235
4,6-Dinitro-2-methylphenol	<0.00150		0.00150	0.00500	1	04/30/2024 18:59	WG2273235
4-Bromophenyl-phenylether	<0.00104		0.00104	0.00250	1	04/30/2024 18:59	WG2273235
4-Chloro-3-methylphenol	<0.000865		0.000865	0.00250	1	04/30/2024 18:59	WG2273235
4-Chlorophenyl-phenylether	<0.00140		0.00140	0.00250	1	04/30/2024 18:59	WG2273235
4-Nitrophenol	<0.00164		0.00164	0.00500	1	04/30/2024 18:59	WG2273235
acenaphthene	<0.00134		0.00134	0.00250	1	04/30/2024 18:59	WG2273235
acenaphthylene	<0.00134		0.00134	0.00250	1	04/30/2024 18:59	WG2273235
acetophenone	<0.000788		0.000788	0.00250	1	04/30/2024 18:59	WG2273235
alpha-Terpineol	<0.000696		0.000696	0.00250	1	04/30/2024 18:59	WG2273235
aniline	<0.000536		0.000536	0.00250	1	04/30/2024 18:59	WG2273235
anthracene	<0.00111		0.00111	0.00250	1	04/30/2024 18:59	WG2273235
atrazine	<0.00167		0.00167	0.00250	1	04/30/2024 18:59	WG2273235
benzidine	<0.00311		0.00311	0.0100	1	04/30/2024 18:59	WG2273235
benzo(a)anthracene	<0.000933		0.000933	0.00250	1	04/30/2024 18:59	WG2273235
benzo(a)pyrene	<0.000941		0.000941	0.00250	1	04/30/2024 18:59	WG2273235
benzo(b)fluoranthene	<0.00102		0.00102	0.00250	1	04/30/2024 18:59	WG2273235
benzo(g,h,i)perylene	<0.00101		0.00101	0.00250	1	04/30/2024 18:59	WG2273235
benzo(k)fluoranthene	<0.000934		0.000934	0.00250	1	04/30/2024 18:59	WG2273235
benzoic acid	<0.00657		0.00657	0.0100	1	04/30/2024 18:59	WG2273235
benzylbutyl phthalate	<0.00143		0.00143	0.00250	1	04/30/2024 18:59	WG2273235
bis(2-chloroethoxy)methane	<0.000991		0.000991	0.00250	1	04/30/2024 18:59	WG2273235
bis(2-chloroethyl)ether	<0.00101		0.00101	0.00250	1	04/30/2024 18:59	WG2273235
bis(2-chloroisopropyl)ether	<0.00116		0.00116	0.00250	1	04/30/2024 18:59	WG2273235
bis(2-Ethylhexyl)phthalate	<0.00318		0.00318	0.00500	1	04/30/2024 18:59	WG2273235
carbazole	<0.00106		0.00106	0.00250	1	04/30/2024 18:59	WG2273235
chrysene	<0.00102		0.00102	0.00250	1	04/30/2024 18:59	WG2273235
1-n-butyl phthalate	<0.00120		0.00120	0.00250	1	04/30/2024 18:59	WG2273235
1-n-octyl phthalate	<0.00174		0.00174	0.00250	1	04/30/2024 18:59	WG2273235
benz(a,h)anthracene	<0.00110		0.00110	0.00250	1	04/30/2024 18:59	WG2273235
benzofuran	<0.00120		0.00120	0.00250	1	04/30/2024 18:59	WG2273235
ethyl phthalate	<0.000915		0.000915	0.00250	1	04/30/2024 18:59	WG2273235

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1728708

DATE/TIME:

05/10/24 12:34

PAGE:

9 of 72



## RO DISCHARGE

## SAMPLE RESULTS - 01

Collected date/time: 04/23/24 08:15

L1728708

## Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Dimethyl phthalate	<0.000878		0.000878	0.00250	1	04/30/2024 18:59	WG2273235
Fluoranthene	<0.00114		0.00114	0.00250	1	04/30/2024 18:59	WG2273235
Fluorene	<0.00131		0.00131	0.00250	1	04/30/2024 18:59	WG2273235
Hexachloro-1,3-butadiene	<0.00176		0.00176	0.00250	1	04/30/2024 18:59	WG2273235
Hexachlorobenzene	<0.000972		0.000972	0.00250	1	04/30/2024 18:59	WG2273235
Hexachlorocyclopentadiene	<0.00117	C5	0.00117	0.0100	1	04/30/2024 18:59	WG2273235
Hexachloroethane	<0.00188		0.00188	0.00250	1	04/30/2024 18:59	WG2273235
1,2-Diphenylhydrazine	<0.00124	N2	0.00124	0.00250	1	04/30/2024 18:59	WG2273235
Indeno(1,2,3-cd)pyrene	<0.000984		0.000984	0.00250	1	04/30/2024 18:59	WG2273235
Isophorone	<0.00183		0.00183	0.00250	1	04/30/2024 18:59	WG2273235
n-Decane	<0.00158		0.00158	0.00250	1	04/30/2024 18:59	WG2273235
n-Nitrosodi-n-butylamine	<0.000735		0.000735	0.00250	1	04/30/2024 18:59	WG2273235
n-Nitrosodi-n-propylamine	<0.00107		0.00107	0.00250	1	04/30/2024 18:59	WG2273235
n-Nitrosodiethylamine	<0.000925		0.000925	0.00250	1	04/30/2024 18:59	WG2273235
n-Nitrosodimethylamine	<0.000651		0.000651	0.00250	1	04/30/2024 18:59	WG2273235
n-Nitrosodiphenylamine	<0.000829		0.000829	0.00250	1	04/30/2024 18:59	WG2273235
n-Octadecane	<0.00128		0.00128	0.00250	1	04/30/2024 18:59	WG2273235
Naphthalene	<0.00200		0.00200	0.00250	1	04/30/2024 18:59	WG2273235
Nitrobenzene	<0.00124		0.00124	0.00250	1	04/30/2024 18:59	WG2273235
Nonylphenol	<0.00286		0.00286	0.00500	1	04/30/2024 18:59	WG2273235
Pentachlorobenzene	<0.00134		0.00134	0.00250	1	04/30/2024 18:59	WG2273235
Pentachlorophenol	<0.00210		0.00210	0.00500	1	04/30/2024 18:59	WG2273235
Phenanthrene	<0.00113		0.00113	0.00250	1	04/30/2024 18:59	WG2273235
Phenol	<0.000967		0.000967	0.00250	1	04/30/2024 18:59	WG2273235
Pyrene	<0.00115		0.00115	0.00250	1	04/30/2024 18:59	WG2273235
Pyridine	<0.00117		0.00117	0.00250	1	04/30/2024 18:59	WG2273235
Total Cresols	<0.00153		0.00153	0.00750	1	04/30/2024 18:59	WG2273235
(S) 2,4,6-Tribromophenol	48.5			29.0-132		04/30/2024 18:59	WG2273235
(S) 2-Fluorobiphenyl	61.9			26.0-102		04/30/2024 18:59	WG2273235
(S) 2-Fluorophenol	31.4			10.0-66.0		04/30/2024 18:59	WG2273235
(S) Nitrobenzene-d5	72.2			15.0-106		04/30/2024 18:59	WG2273235
(S) p-Terphenyl-d14	68.8			10.0-120		04/30/2024 18:59	WG2273235
(S) Phenol-D6	23.0			10.0-54.0		04/30/2024 18:59	WG2273235

1 Cp

2 Te

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4062029-1 04/24/24 16:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Total Dissolved Solids	<25.0		25.0	25.0

L1728708-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1728708-01 04/24/24 16:45 • (DUP) R4062029-3 04/24/24 16:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Dissolved Solids	9760	10100	1	3.17		10

Laboratory Control Sample (LCS)

(LCS) R4062029-2 04/24/24 16:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Dissolved Solids	2410	2540	105	85.0-115	



WG2275083

Gravimetric Analysis by Method 2540D

QUALITY CONTROL SUMMARY

L1728708-01

Method Blank (MB)

(MB) R4062797-1 04/26/24 12:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	<2.50		2.50	2.50

L1728751-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1728751-01 04/26/24 12:07 • (DUP) R4062797-3 04/26/24 12:07

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	1300	1260	1	3.13		10

L1728751-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1728751-03 04/26/24 12:07 • (DUP) R4062797-4 04/26/24 12:07

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	520	547	1	5.01		10

Laboratory Control Sample (LCS)

(LCS) R4062797-2 04/26/24 12:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	928	914	98.5	85.0-115	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1728708

DATE/TIME:  
05/10/24 12:34

PAGE:  
12 of 72

Method Blank (MB)

(MB) R4063931-1 04/29/24 15:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Oil & Grease (Hexane Extr)	<0.350		0.350	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4063931-2 04/29/24 15:45 • (LCSD) R4063931-3 04/29/24 15:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Oil & Grease (Hexane Extr)	40.0	37.5	35.9	93.8	89.8	78.0-114			4.36	18

L1728932-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1728932-02 04/29/24 15:45 • (MS) R4063931-4 04/29/24 15:45

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Oil & Grease (Hexane Extr)	40.0	0.980	36.0	87.6	1	78.0-114	

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

WG2273866

Wet Chemistry by Method 2120B

QUALITY CONTROL SUMMARY

L1728708-01

Method Blank (MB)

(MB) R4061864-1 04/24/24 19:50

Analyte	MB Result units	MB Qualifier	MB MDL units	MB RDL units
Color	<5.00		5.00	5.00

Sample Narrative:

BLANK: 7

L1728708-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1728708-01 04/24/24 19:50 • (DUP) R4061864-2 04/24/24 19:50

Analyte	Original Result units	DUP Result units	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Color	5.00	5.00	1	0.000		20

Sample Narrative:

OS: 6

DUP: 6





## Method Blank (MB)

(MB) R4063816-1 04/30/24 08:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	<20.0		20.0	20.0
Alkalinity,Bicarbonate	<20.0		20.0	20.0
Alkalinity,Carbonate	<20.0		20.0	20.0
Alkalinity,Hydroxide	<20.0		20.0	20.0
Phenolphthalein Alkalinity	<20.0		20.0	20.0

## L1728662-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1728662-01 04/30/24 08:43 • (DUP) R4063816-3 04/30/24 08:43

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	160	162	1	1.24		20

## Laboratory Control Sample (LCS)

(LCS) R4063816-2 04/30/24 08:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	250	242	96.8	90.0-110	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1728708DATE/TIME:  
05/10/24 12:34PAGE:  
15 of 72

WG2276983

Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY

L1728708-01

Method Blank (MB)

(MB) R4066825-1 05/01/24 09:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Bromide	<0.353		0.353	1.00
Chloride	<0.379		0.379	1.00
Fluoride	<0.0640		0.0640	0.150
Sulfate	<0.594		0.594	5.00

L1726299-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1726299-01 05/01/24 15:29 • (DUP) R4066825-3 05/01/24 15:44

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Bromide	1.52	1.55	1	2.00		15
Chloride	67.4	67.5	1	0.167		15
Fluoride	0.443	0.449	1	1.32		15
Sulfate	67.8	67.8	1	0.0206		15

L1728911-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1728911-09 05/01/24 22:06 • (DUP) R4066825-6 05/01/24 22:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Bromide	<0.353	<0.353	1	0.000		15
Chloride	1.29	1.28	1	0.241		15
Fluoride	<0.0640	<0.0640	1	0.000		15
Sulfate	17.4	17.4	1	0.108		15

Laboratory Control Sample (LCS)

(LCS) R4066825-2 05/01/24 09:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromide	40.0	38.8	96.9	90.0-110	
Chloride	40.0	38.7	96.9	90.0-110	
Fluoride	8.00	8.04	101	90.0-110	
Sulfate	40.0	40.0	99.9	90.0-110	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1728708

DATE/TIME:  
05/10/24 12:34

PAGE:  
16 of 72

## L1726299-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1726299-01 05/01/24 15:29 • (MS) R4066825-4 05/01/24 16:00 • (MSD) R4066825-5 05/01/24 16:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Bromide	40.0	1.52	39.4	39.5	94.8	1	80.0-120			0.170	15
Chloride	40.0	67.4	94.1	94.3	66.7	1	80.0-120	J6	J6	0.256	15
Fluoride	8.00	0.443	8.41	8.45	99.6	1	80.0-120			0.484	15
Sulfate	40.0	67.8	95.7	95.9	69.8	1	80.0-120	J6	J6	0.137	15

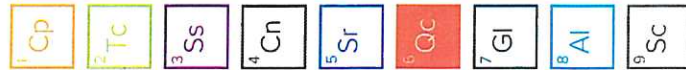
## L1728911-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L1728911-09 05/01/24 22:06 • (MS) R4066825-7 05/01/24 22:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Bromide	40.0	<0.353	39.4	98.5	1	80.0-120	
Chloride	40.0	1.29	39.8	96.2	1	80.0-120	
Fluoride	8.00	<0.0640	8.05	101	1	80.0-120	
Sulfate	40.0	17.4	54.8	93.6	1	80.0-120	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1728708DATE/TIME:  
05/10/24 12:34PAGE:  
17 of 72



WG2274146

Wet Chemistry by Method 3500Cr-B

## QUALITY CONTROL SUMMARY

L1728708-01

### Method Blank (MB)

(MB) R4061913-1 04/25/24 10:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chromium,Hexavalent	<0.00200		0.00200	0.00300

### Laboratory Control Sample (LCS)

(LCS) R4061913-2 04/25/24 10:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chromium,Hexavalent	0.200	0.203	102	85.0-115	

### L1728151-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728151-01 04/25/24 10:03 • (MS) R4061913-3 04/25/24 10:04 • (MSD) R4061913-4 04/25/24 10:04

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	0.200	0.0281	0.235	0.228	104	100	1	10.0-120			3.00	20

#### Sample Narrative:

OS: Sample preserved in lab w/in 24hrs of collection.

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1728708

DATE/TIME:  
05/10/24 12:34

PAGE:  
18 of 72



## Method Blank (MB)

(MB) R4063197-1 04/27/24 22:40

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Kjeldahl Nitrogen, TKN	<0.140	0.140	0.140	0.250

## Laboratory Control Sample (LCS)

(LCS) R4063197-2 04/27/24 22:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Kjeldahl Nitrogen, TKN	4.00	4.09	102	90.0-110	

## L1728708-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728708-01 04/27/24 22:46 • (MS) R4063197-3 04/27/24 23:05 • (MSD) R4063197-4 04/27/24 23:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	4.00	0.766	4.65	4.51	97.1	93.6	1	90.0-110		3.06		20

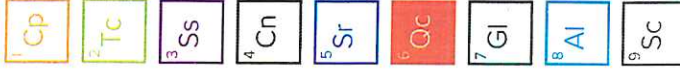
## L1728921-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728921-02 04/27/24 22:52 • (MS) R4063197-5 04/27/24 23:07 • (MSD) R4063197-6 04/27/24 23:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	4.00	7.82	12.5	12.3	117	112	1	90.0-110	E J5	E J5	1.61	20

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1728708DATE/TIME:  
05/10/24 12:34PAGE:  
19 of 72

WG2273745

Wet Chemistry by Method 353.2

## QUALITY CONTROL SUMMARY

L1728708-01

### Method Blank (MB)

(MB) R4061866-1 04/24/24 18:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	<0.0300		0.0300	0.0500
Nitrite	<0.0300		0.0300	0.0500

### Laboratory Control Sample (LCS)

(LCS) R4061866-2 04/24/24 18:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.63	105	90.0-110	
Nitrite	2.50	2.59	104	90.0-110	

### L1728708-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728708-01 04/24/24 18:48 • (MS) R4061866-3 04/24/24 18:53 • (MSD) R4061866-4 04/24/24 18:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	<0.0300	2.67	2.67	107	107	1	90.0-110			0.000	20
Nitrite	2.50	<0.0300	2.56	2.56	102	102	1	90.0-110			0.000	20

ACCOUNT:  
Holidav Beach WSC

PROJECT:

SDG:  
L1728708

DATE/TIME:  
05/10/24 12:34

PAGE:  
20 of 72



## Method Blank (MB)

(MB) R4064108-1 04/30/24 16:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	<0.0300		0.0300	0.0500

## Laboratory Control Sample (LCS)

(LCS) R4064108-2 04/30/24 16:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.60	104	90.0-110	

## L1728876-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728876-01 04/30/24 16:02 • (MS) R4064108-3 04/30/24 16:21 • (MSD) R4064108-4 04/30/24 16:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	<0.0300	2.55	2.60	102	104	1	90.0-110		1.94		20

## L1728876-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728876-02 04/30/24 16:03 • (MS) R4064108-5 04/30/24 16:22 • (MSD) R4064108-6 04/30/24 16:23

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	<0.0300	2.67	2.68	107	107	1	90.0-110		0.374		20

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1728708DATE/TIME:  
05/10/24 12:34PAGE:  
21 of 72

WG2274189

Wet Chemistry by Method 4500CN-E

QUALITY CONTROL SUMMARY

L1728708-01

Method Blank (MB)

(MB) R4062220-1 04/25/24 16:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	<0.00430	0.00430	0.00430	0.0100

Laboratory Control Sample (LCS)

(LCS) R4062220-2 04/25/24 16:38

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.0956	95.6	85.0-115	

L1727453-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1727453-02 04/25/24 16:38 • (MS) R4062220-3 04/25/24 16:38 • (MSD) R4062220-4 04/25/24 16:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	<0.00430	0.0912	0.0963	91.2	96.3	1	85.0-115			5.39	20

L1727491-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1727491-02 04/25/24 16:38 • (MS) R4062220-5 04/25/24 16:38 • (MSD) R4062220-6 04/25/24 16:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	0.0242	0.119	0.119	94.4	94.7	1	85.0-115			0.284	20

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1728708

DATE/TIME:  
05/10/24 12:34

PAGE:  
22 of 72



## Method Blank (MB)

(MB) R4063514-1 04/29/24 17:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phosphorus, Total	<0.0152		0.0152	0.0500

## Laboratory Control Sample (LCS)

(LCS) R4063514-2 04/29/24 17:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %
Phosphorus, Total	0.500	0.529	106	80.0-120

## L1728662-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728662-01 04/29/24 17:02 • (MS) R4063514-3 04/29/24 17:04 • (MSD) R4063514-4 04/29/24 17:04

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Phosphorus, Total	0.500	0.474	0.982	0.987	102	103	1	80.0-120		0.580		20

## L1730169-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1730169-02 04/29/24 17:04 • (MS) R4063514-5 04/29/24 17:04 • (MSD) R4063514-6 04/29/24 17:04

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Phosphorus, Total	0.500	0.189	0.692	0.619	100	85.9	1	80.0-120		11.2		20

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1728708

DATE/TIME:

05/10/24 12:34

PAGE:

23 of 72



WG2273867

Wet Chemistry by Method 4500-S2 D

# QUALITY CONTROL SUMMARY

L1728708-01

## Method Blank (MB)

(MB) R4061861-1 04/24/24 21:10				
Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Sulfide	<0.0230		0.0230	0.100

## Laboratory Control Sample (LCS)

(LCS) R4061861-2 04/24/24 21:10				
Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %
Sulfide	0.800	0.857	107	80.0-120

## L1728708-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728708-01 04/24/24 21:10 • (MS) R4061861-3 04/24/24 21:10 • (MSD) R4061861-4 04/24/24 21:10									
Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	MSD Result mg/l	MSD Rec. %	Dilution	Rec. Limits %	RPD Limits %
Sulfide	0.800	<0.0230	0.495	61.8	0.505	63.1	1	80.0-120	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4063205-1 04/29/24 08:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
BOD	<0.200		0.200	0.200

L1728662-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1728662-01 04/29/24 09:15 • (DUP) R4063205-3 04/29/24 09:58

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
BOD	<1.00	<1.00	1	0		20

L1728738-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1728738-01 04/29/24 09:30 • (DUP) R4063205-4 04/29/24 10:01

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
BOD	7.01	6.43	1	8.63		20

Laboratory Control Sample (LCS)

(LCS) R4063205-2 04/29/24 08:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
BOD	198	199	101	85-115	



WG2273312

Wet Chemistry by Method 5210 B-2016

# QUALITY CONTROL SUMMARY

L1728708-01

## Method Blank (MB)

(MB) R4063332-1 04/29/24 12:12

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
CBOD	<0.200		0.200	0.200

## L1728862-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1728862-02 04/29/24 12:49 • (DUP) R4063332-3 04/29/24 13:00

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
CBOD	1.68	1.61	1	4.26		20

## L1728919-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1728919-01 04/29/24 12:58 • (DUP) R4063332-4 04/29/24 13:02

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
CBOD	<1.00	<1.00	1	0		20

## Laboratory Control Sample (LCS)

(LCS) R4063332-2 04/29/24 12:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
CBOD	198	190	96.1	85-115	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1728708

DATE/TIME:  
05/10/24 12:34

PAGE:  
26 of 72





## Method Blank (MB)

(MB) R4063898-1 04/30/24 13:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
COD	<16.1		16.1	35.0

## Laboratory Control Sample (LCS)

(LCS) R4063898-2 04/30/24 13:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
COD	500	451	90.2	80.0-120	

## L1728743-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728743-01 04/30/24 13:41 • (MS) R4063898-3 04/30/24 13:41 • (MSD) R4063898-4 04/30/24 13:41

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
COD	500	45.3	524	539	95.7	98.7	1	80.0-120			2.83	20

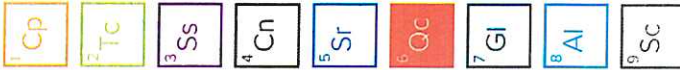
## L1729331-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1729331-01 04/30/24 13:41 • (MS) R4063898-5 04/30/24 13:41 • (MSD) R4063898-6 04/30/24 13:41

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
COD	500	47.4	498	507	90.1	91.8	1	80.0-120			1.71	20

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1728708DATE/TIME:  
05/10/24 12:34PAGE:  
27 of 72

WG2277108

Wet Chemistry by Method 5310C

QUALITY CONTROL SUMMARY

L1728708-01

Method Blank (MB)

(MB) R4064285-1 04/30/24 12:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TOC (Total Organic Carbon)	<0.270		0.270	0.700

Laboratory Control Sample (LCS)

(LCS) R4064285-2 04/30/24 12:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	10.0	10.5	105	90.0-110	

L1728708-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728708-01 04/30/24 15:46 • (MS) R4064285-3 04/30/24 14:23 • (MSD) R4064285-4 04/30/24 14:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	10.0	4.45	12.9	13.1	84.0	86.3	1	80.0-120			1.77	20

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

## Method Blank (MB)

(MB) R4061879-1 04/24/24 19:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
MBAS	<0.360		0.360	0.500

## Laboratory Control Sample (LCS)

(LCS) R4061879-2 04/24/24 19:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
MBAS	1.00	1.20	120	80.0-120	

## L1728708-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728708-01 04/24/24 19:33 • (MS) R4061879-3 04/24/24 19:33 • (MSD) R4061879-4 04/24/24 19:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
MBAS	1.00	<0.360	1.21	1.28	121	128	1	80.0-120	J5	J5	5.61	20

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1728708DATE/TIME:  
05/10/24 12:34PAGE:  
29 of 72



WG2276644

Wet Chemistry by Method SM 4500-H+B

QUALITY CONTROL SUMMARY

L1728708-01

L1727124-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1727124-01 04/29/24 13:29 • (DUP) R4063435-2 04/29/24 13:29

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
pH	8.00	8.01	1	0.125		20

Sample Narrative:

OS: 8 at 19.3C

DUP: 8.01 at 18.9C

L1728706-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1728706-01 04/29/24 13:29 • (DUP) R4063435-3 04/29/24 13:29

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
pH	9.00	8.99	1	0.111		20

Sample Narrative:

OS: 9 at 19C

DUP: 8.99 at 19C

Laboratory Control Sample (LCS)

(LCS) R4063435-1 04/29/24 13:29

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
pH	6.00	5.97	99.5	99.0-101	

Sample Narrative:

LCS: 5.97 at 22.2C

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1728708

DATE/TIME:

05/10/24 12:34

PAGE:

30 of 72

## Method Blank (MB)

(MB) R4062529-1 04/25/24 16:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	<0.0280		0.0280	0.100

## Laboratory Control Sample (LCS)

(LCS) R4062529-2 04/25/24 16:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	5.00	5.14	103	80.0-120	

## L1728275-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728275-01 04/25/24 16:41 • (MS) R4062529-3 04/25/24 16:30 • (MSD) R4062529-4 04/25/24 16:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	0.0499	4.98	4.98	98.6	98.6	1	80.0-120			0.000	20

## L1728279-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728279-01 04/25/24 16:43 • (MS) R4062529-5 04/25/24 16:34 • (MSD) R4062529-6 04/25/24 16:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	0.550	5.48	5.41	98.6	97.2	1	80.0-120			1.29	20

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1728708DATE/TIME:  
05/10/24 12:34PAGE:  
31 of 72

WG2274706

Metals (ICP) by Method 200.7

Method Blank (MB)

(MB) R4063203-1 04/27/24 11:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aluminum	<0.0353		0.0353	0.500
Antimony	<0.00242		0.00242	0.0250
Arsenic	<0.00418		0.00418	0.0200
Barium	<0.000490		0.000490	0.0100
Beryllium	<0.000180		0.000180	0.00100
Boron	<0.0186		0.0186	0.100
Cadmium	<0.000350		0.000350	0.00500
Chromium	<0.000710		0.000710	0.00700
Cobalt	<0.000680		0.000680	0.00250
Copper	<0.00364		0.00364	0.0200
Iron	<0.0303		0.0303	0.500
Lead	<0.00312		0.00312	0.0100
Magnesium	<0.0434		0.0434	1.00
Manganese	<0.00557		0.00557	0.0500
Molybdenum	<0.00760		0.00760	0.0300
Nickel	<0.00358		0.00358	0.0100
Selenium	<0.00500		0.00500	0.0200
Silver	<0.000990		0.000990	0.00500
Thallium	<0.00775		0.00775	0.0200
Tin	<0.00240		0.00240	0.0250
Titanium	<0.00835		0.00835	0.100
Zinc	<0.0106		0.0106	0.0250

Laboratory Control Sample (LCS)

(LCS) R4063203-2 04/27/24 11:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum	10.0	9.95	99.5	85.0-115	
Antimony	1.00	0.984	98.4	85.0-115	
Arsenic	1.00	0.978	97.8	85.0-115	
Barium	1.00	0.989	98.9	85.0-115	
Beryllium	1.00	0.995	99.5	85.0-115	
Boron	1.00	0.951	95.1	85.0-115	
Cadmium	1.00	0.996	99.6	85.0-115	
Chromium	1.00	0.978	97.8	85.0-115	
Cobalt	1.00	1.01	101	85.0-115	
Copper	1.00	0.992	99.2	85.0-115	
Iron	10.0	10.0	100	85.0-115	

ACCOUNT:  
Holladay Beach WSC

PROJECT:

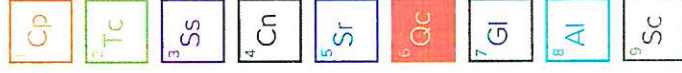
SDG:  
L1728708

DATE/TIME:  
05/10/24 12:34

PAGE:  
32 of 72

QUALITY CONTROL SUMMARY

L1728708-01





## Laboratory Control Sample (LCS)

(LCS) R4063203-2 04/27/24 11:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	1.00	1.01	101	85.0-115	
Magnesium	10.0	10.2	102	85.0-115	
Manganese	1.00	1.00	100	85.0-115	
Molybdenum	1.00	0.948	94.8	85.0-115	
Nickel	1.00	1.00	100	85.0-115	
Selenium	1.00	1.00	100	85.0-115	
Silver	0.500	0.475	95.0	85.0-115	
Thallium	1.00	1.04	104	85.0-115	
Tin	1.00	1.00	100	85.0-115	
Titanium	1.00	0.975	97.5	85.0-115	
Zinc	1.00	1.00	100	85.0-115	

## L1728706-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728706-03 04/27/24 12:49 • (MS) R4063203-4 04/27/24 13:13 • (MSD) R4063203-6 04/27/24 13:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	10.0	0.273	10.5	10.2	102	99.7	1	70.0-130			2.22	20
Antimony	1.00	<0.00242	1.01	0.993	101	99.3	1	70.0-130			1.46	20
Arsenic	1.00	<0.00418	1.01	0.993	101	99.3	1	70.0-130			1.60	20
Barium	1.00	0.0166	1.02	1.01	100	99.2	1	70.0-130			0.790	20
Beryllium	1.00	<0.000180	1.02	1.00	102	100	1	70.0-130			1.49	20
Boron	1.00	0.0202	0.990	0.974	97.0	95.4	1	70.0-130			1.64	20
Cadmium	1.00	<0.000350	1.02	0.995	102	99.5	1	70.0-130			2.31	20
Chromium	1.00	0.00707	1.00	0.984	99.3	97.7	1	70.0-130			1.60	20
Cobalt	1.00	<0.000680	1.02	1.00	102	100	1	70.0-130			1.78	20
Copper	1.00	0.00460	1.01	0.987	100	98.2	1	70.0-130			2.14	20
Iron	10.0	0.173	10.3	10.2	102	100	1	70.0-130			1.66	20
Lead	1.00	<0.00312	1.02	0.998	102	99.8	1	70.0-130			1.81	20
Magnesium	10.0	1.03	11.2	11.0	102	99.7	1	70.0-130			2.07	20
Manganese	1.00	0.00929	1.02	1.01	101	99.8	1	70.0-130			1.09	20
Molybdenum	1.00	<0.00760	0.982	0.950	98.2	95.0	1	70.0-130			3.26	20
Nickel	1.00	<0.00358	1.02	0.998	102	99.8	1	70.0-130			1.92	20
Selenium	1.00	<0.00500	1.03	1.02	103	102	1	70.0-130			1.66	20
Silver	0.500	<0.000990	0.483	0.480	96.7	96.0	1	70.0-130			0.664	20
Thallium	1.00	<0.00775	1.05	1.03	105	103	1	70.0-130			1.82	20
Tin	1.00	<0.00240	1.02	1.00	102	100	1	70.0-130			1.98	20
Titanium	1.00	<0.00835	0.999	0.982	99.9	98.2	1	70.0-130			1.81	20
Zinc	1.00	0.0134	1.03	1.01	101	99.4	1	70.0-130			1.87	20

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1728708DATE/TIME:  
05/10/24 12:34PAGE:  
33 of 72

## WG2274706

Metals (ICP) by Method 200.7

## QUALITY CONTROL SUMMARY

L1728708-01

## L1728706-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728706-02 04/29/24 13:45 • (MS) R4063393-1 04/29/24 13:49 • (MSD) R4063393-2 04/29/24 13:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	10.0	0.296	10.2	10.3	99.4	99.8	1	70.0-130			0.390	20
Antimony	1.00	<0.00242	0.967	0.963	96.7	96.3	1	70.0-130			0.446	20
Arsenic	1.00	<0.00418	0.969	0.965	96.9	96.5	1	70.0-130			0.383	20
Barium	1.00	0.0165	0.975	0.979	95.9	96.2	1	70.0-130			0.348	20
Beryllium	1.00	<0.000180	0.972	0.975	97.2	97.5	1	70.0-130			0.349	20
Boron	1.00	0.0199	0.963	0.965	94.3	94.5	1	70.0-130			0.280	20
Cadmium	1.00	<0.000350	0.977	0.975	97.7	97.5	1	70.0-130			0.184	20
Chromium	1.00	0.00668	0.966	0.962	95.9	95.6	1	70.0-130			0.394	20
Cobalt	1.00	<0.000680	0.982	0.979	98.2	97.9	1	70.0-130			0.265	20
Copper	1.00	<0.00364	0.967	0.972	96.7	97.2	1	70.0-130			0.536	20
Iron	10.0	0.228	10.1	10.1	98.4	98.8	1	70.0-130			0.396	20
Lead	1.00	<0.00312	0.983	0.979	98.3	97.9	1	70.0-130			0.347	20
Magnesium	10.0	1.10	10.9	11.0	97.8	98.5	1	70.0-130			0.641	20
Manganese	1.00	0.0103	0.998	0.992	98.7	98.2	1	70.0-130			0.553	20
Molybdenum	1.00	<0.00760	0.967	0.964	96.7	96.4	1	70.0-130			0.331	20
Nickel	1.00	<0.00358	0.979	0.977	97.9	97.7	1	70.0-130			0.204	20
Selenium	1.00	<0.00500	0.994	0.990	99.4	99.0	1	70.0-130			0.393	20
Thallium	1.00	<0.00775	1.02	1.01	102	101	1	70.0-130			0.197	20
Tin	1.00	<0.00240	0.984	0.983	98.4	98.3	1	70.0-130			0.122	20
Titanium	1.00	<0.00835	0.958	0.969	95.8	96.9	1	70.0-130			1.09	20
Zinc	1.00	0.0137	1.00	0.999	98.7	98.5	1	70.0-130			0.250	20

## L1728706-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728706-02 04/30/24 11:54 • (MS) R4063828-1 04/30/24 11:58 • (MSD) R4063828-2 04/30/24 12:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Silver	0.500	<0.000990	0.459	0.459	91.8	91.8	1	70.0-130			0.0218	20

ACCOUNT:

Holladay Beach WSC

PROJECT:

SDG:

L1728708

DATE/TIME:

05/10/24 12:34

PAGE:

34 of 72



Method Blank (MB)

(MB) R4062294-2 04/25/24 16:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,1-Trichloroethane	<0.00335		0.00335	0.00500
1,1,2,2-Tetrachloroethane	<0.000596		0.000596	0.00500
1,1,2-Trichloroethane	<0.00145		0.00145	0.00500
1,1-Dichloroethane	<0.00292		0.00292	0.00500
1,1-Dichloroethene	<0.00367		0.00367	0.00500
1,2-Dichlorobenzene	<0.00172		0.00172	0.00200
1,2-Dichloroethane	<0.00195		0.00195	0.00500
1,2-Dichloropropane	<0.000804		0.000804	0.00200
1,3-Dichlorobenzene	<0.00419		0.00419	0.00500
1,4-Dichlorobenzene	<0.00173		0.00173	0.00200
2-Chloroethyl vinyl ether	<0.00652		0.00652	0.0100
Acrolein	<0.00544		0.00544	0.0100
Acrylonitrile	<0.00709		0.00709	0.0100
Benzene	<0.00207		0.00207	0.00500
Bromodichloromethane	<0.00179		0.00179	0.00200
Bromoform	<0.000960		0.000960	0.0100
Bromomethane	<0.00347		0.00347	0.00500
Carbon tetrachloride	<0.00159		0.00159	0.00200
Chlorobenzene	<0.00276		0.00276	0.0100
Chloroethane	<0.00296		0.00296	0.00500
Chloroform	<0.00212		0.00212	0.00500
Chloromethane	<0.00361		0.00361	0.00500
cis-1,2-Dichloroethene	<0.00113		0.00113	0.00500
cis-1,3-Dichloropropene	<0.00492		0.00492	0.0100
Dibromochloromethane	<0.00327		0.00327	0.00500
Ethylbenzene	<0.000401		0.000401	0.00200
Methylene Chloride	<0.0118		0.0118	0.0200
Tetrachloroethene	<0.00486		0.00486	0.0100
Toluene	<0.00219		0.00219	0.00500
Total 1,3-Dichloropropene	<0.00372		0.00372	0.0100
trans-1,2-Dichloroethene	<0.00501		0.00501	0.0100
trans-1,3-Dichloropropene	<0.00460		0.00460	0.00500
Trichloroethene	<0.00262		0.00262	0.00500
Vinyl chloride	<0.00466		0.00466	0.00500
(S) 1,2-Dichloroethane-d4	103			70.0-130
(S) 4-Bromofluorobenzene	98.1			70.0-130
(S) Toluene-d8	101			70.0-130

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1728708

DATE/TIME:  
05/10/24 12:34

PAGE:  
35 of 72



WG2274644

Volatile Organic Compounds (GC/MS) by Method 624.1

Laboratory Control Sample (LCS)

(LCS) R4062294-1 04/25/24 14:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,1,1-Trichloroethane	0.0199	0.0203	102	70.0-130	
1,1,2,2-Tetrachloroethane	0.0201	0.0197	98.0	60.0-140	
1,1,2-Trichloroethane	0.0199	0.0207	104	70.0-130	
1,1-Dichloroethane	0.0200	0.0196	98.0	70.0-130	
1,1-Dichloroethene	0.0198	0.0212	107	50.0-150	
1,2-Dichlorobenzene	0.0200	0.0196	98.0	65.0-135	
1,2-Dichloroethane	0.0199	0.0194	97.5	70.0-130	
1,2-Dichloropropane	0.0199	0.0190	95.5	35.0-165	
1,3-Dichlorobenzene	0.0199	0.0189	95.0	70.0-130	
1,4-Dichlorobenzene	0.0200	0.0184	92.0	65.0-135	
2-Chloroethyl vinyl ether	0.100	0.106	106	1.00-225	
Acrolein	0.100	0.119	119	64.0-139	
Acrylonitrile	0.100	0.102	102	67.0-136	
Benzene	0.0200	0.0204	102	65.0-135	
Bromodichloromethane	0.0199	0.0197	99.0	65.0-135	
Bromoform	0.0198	0.0174	87.9	70.0-130	
Bromomethane	0.0200	0.0177	88.5	15.0-185	
Carbon tetrachloride	0.0199	0.0189	95.0	70.0-130	
Chlorobenzene	0.0198	0.0201	102	65.0-135	
Chloroethane	0.0200	0.0204	102	40.0-160	
Chloroform	0.0198	0.0196	99.0	70.0-135	
Chloromethane	0.0200	0.0127	63.5	1.00-205	
cis-1,2-Dichloroethene	0.0200	0.0199	99.5	70.0-130	
cis-1,3-Dichloropropene	0.0200	0.0181	90.5	25.0-175	
Dibromochloromethane	0.0198	0.0197	99.5	70.0-135	
Ethylbenzene	0.0201	0.0198	98.5	60.0-140	
Methylene Chloride	0.0204	0.0182	89.2	60.0-140	
Tetrachloroethene	0.0199	0.0211	106	70.0-130	
Toluene	0.0200	0.0200	100	70.0-130	
Total 1,3-Dichloropropene	0.0401	0.0339	84.5	70.0-130	
trans-1,2-Dichloroethene	0.0200	0.0182	91.0	70.0-130	
trans-1,3-Dichloropropene	0.0201	0.0158	78.6	50.0-150	
Trichloroethene	0.0200	0.0198	99.0	65.0-135	
Vinyl chloride	0.0200	0.0180	90.0	5.00-195	
(S) 1,2-Dichloroethane-d4			100	70.0-130	
(S) 4-Bromofluorobenzene			94.7	70.0-130	
(S) Toluene-d8			102	70.0-130	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1728708

DATE/TIME:  
05/10/24 12:34

PAGE:  
36 of 72

QUALITY CONTROL SUMMARY

L1728708-01



L1728355-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728355-04 04/25/24 16:52 • (MS) R4062294-3 04/25/24 17:16 • (MSD) R4062294-4 04/25/24 17:41

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,1,1-Trichloroethane	0.0199	<0.00335	0.0216	0.0208	109	105	1	52.0-162			3.77	36
1,1,2,2-Tetrachloroethane	0.0201	<0.000596	0.0213	0.0209	106	104	1	46.0-157			1.90	61
1,1,2-Trichloroethane	0.0199	<0.00145	0.0221	0.0213	111	107	1	52.0-150			3.69	45
1,1-Dichloroethane	0.0200	<0.00292	0.0207	0.0197	104	98.5	1	59.0-155			4.95	40
1,1-Dichloroethene	0.0198	<0.00367	0.0238	0.0224	120	113	1	100-234			6.06	32
1,2-Dichlorobenzene	0.0200	<0.00172	0.0212	0.0205	106	103	1	18.0-190			3.36	57
1,2-Dichloroethane	0.0199	<0.00195	0.0206	0.0196	104	98.5	1	49.0-155			4.98	49
1,2-Dichloropropane	0.0199	<0.000804	0.0209	0.0200	105	101	1	100-210			4.40	55
1,3-Dichlorobenzene	0.0199	<0.00419	0.0217	0.0207	109	104	1	59.0-156			4.72	43
1,4-Dichlorobenzene	0.0200	<0.00173	0.0211	0.0201	105	101	1	18.0-190			4.85	57
2-Chloroethyl vinyl ether	0.100	<0.00652	0.0333	0.0335	33.3	33.5	1	100-305			0.599	71
Acrolein	0.100	<0.00544	0.0657	0.0615	65.7	61.5	1	4.00-172			6.60	20
Acrylonitrile	0.100	<0.00709	0.0906	0.0937	90.6	93.7	1	22.0-189			3.36	20
Benzene	0.0200	<0.00207	0.0217	0.0216	109	108	1	37.0-151			0.462	61
Bromodichloromethane	0.0199	0.00852	0.0300	0.0294	108	105	1	35.0-155			2.02	56
Bromoform	0.0198	<0.000960	0.0190	0.0187	96.0	94.4	1	70.0-130			1.59	42
Bromomethane	0.0200	<0.00347	0.0156	0.0172	78.0	86.0	1	15.0-185			9.76	61
Carbon tetrachloride	0.0199	<0.00159	0.0212	0.0213	107	107	1	70.0-140			0.471	41
Chlorobenzene	0.0198	<0.00276	0.0218	0.0208	110	105	1	37.0-160			4.69	53
Chloroethane	0.0200	<0.00296	0.0224	0.0208	112	104	1	14.0-230			7.41	78
Chloroform	0.0198	0.0453	0.0679	0.0657	114	103	1	51.0-138			3.29	54
Chloromethane	0.0200	<0.00361	0.0143	0.0141	71.5	70.5	1	100-273			1.41	20
cis-1,2-Dichloroethene	0.0200	<0.00113	0.0218	0.0198	109	99.0	1	70.0-130			9.62	20
cis-1,3-Dichloropropene	0.0200	<0.00492	0.0188	0.0189	94.0	94.5	1	100-227			0.531	58
Dibromochloromethane	0.0198	<0.00327	0.0219	0.0221	111	112	1	53.0-149			0.909	50
Ethylbenzene	0.0201	<0.000401	0.0217	0.0211	108	105	1	37.0-162			2.80	63
Methylene Chloride	0.0204	<0.0118	0.0186	0.0188	91.2	92.2	1	100-221			1.07	28
Tetrachloroethene	0.0199	<0.00486	0.0239	0.0226	120	114	1	64.0-148			5.59	39
Toluene	0.0200	<0.00219	0.0223	0.0216	112	108	1	47.0-150			3.19	41
Total 1,3-Dichloropropene	0.0401	<0.00372	0.0352	0.0355	87.8	88.5	1	70.0-130			0.849	20
trans-1,2-Dichloroethene	0.0200	<0.00501	0.0203	0.0193	102	96.5	1	54.0-156			5.05	45
trans-1,3-Dichloropropene	0.0201	<0.00460	0.0164	0.0166	81.6	82.6	1	17.0-183			1.21	86
Trichloroethene	0.0200	<0.00262	0.0210	0.0209	105	105	1	70.0-157			0.477	48
Vinyl chloride	0.0200	<0.00466	0.0193	0.0180	96.5	90.0	1	100-251			6.97	66
(S) 1,2-Dichloroethane-d4												
(S) 4-Bromofluorobenzene					96.9	94.5		70.0-130				
(S) Toluene-d8					93.3	92.8		70.0-130				
					99.7	99.4		70.0-130				



WG2275763

Pesticides (GC) by Method EPA 608.3

QUALITY CONTROL SUMMARY

L1728708-01

Method Blank (MB)

(MB) R4064316-1 04/28/24 13:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aldrin	<0.0000198		0.0000198	0.0000500
Alpha BHC	<0.0000172		0.0000172	0.0000500
Beta BHC	<0.0000208		0.0000208	0.0000500
Delta BHC	<0.0000150		0.0000150	0.0000500
Gamma BHC	<0.0000209		0.0000209	0.0000500
Chlordane	<0.0000198		0.0000198	0.00500
4,4-DDD	<0.0000177		0.0000177	0.0000500
4,4-DDE	<0.0000154		0.0000154	0.0000500
4,4-DDT	<0.0000198		0.0000198	0.0000500
Dieldrin	<0.0000162		0.0000162	0.0000500
Endosulfan I	<0.0000160		0.0000160	0.0000500
Endosulfan II	<0.0000164		0.0000164	0.0000500
Endosulfan sulfate	<0.0000217		0.0000217	0.0000500
Endrin	<0.0000161		0.0000161	0.0000500
Endrin aldehyde	<0.0000237		0.0000237	0.0000500
Endrin ketone	<0.0000219		0.0000219	0.0000500
Heptachlor	<0.0000148		0.0000148	0.0000500
Heptachlor epoxide	<0.0000183		0.0000183	0.0000500
Hexachlorobenzene	<0.0000176		0.0000176	0.0000500
Methoxychlor	<0.0000193		0.0000193	0.0000500
Toxaphene	<0.000168		0.000168	0.000500
gamma-Chlordane	<0.0000137		0.0000137	0.0000500
alpha-Chlordane	<0.0000149		0.0000149	0.0000500
(S) Decachlorobiphenyl	36.1			10.0-144
(S) Tetrachloro-m-xylene	68.6			10.0-135

Laboratory Control Sample (LCS)

(LCS) R4064316-5 04/28/24 13:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aldrin	0.00100	0.000715	71.5	42.0-140	
Alpha BHC	0.00100	0.000789	78.9	37.0-140	
Beta BHC	0.00100	0.000819	81.9	17.0-147	
Delta BHC	0.00100	0.000710	71.0	19.0-140	
Gamma BHC	0.00100	0.000831	83.1	32.0-140	
4,4-DDD	0.00100	0.000796	79.6	31.0-141	
4,4-DDE	0.00100	0.000688	68.8	30.0-145	
4,4-DDT	0.00100	0.000668	66.8	25.0-160	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1728708

DATE/TIME:  
05/10/24 12:34

PAGE:  
38 of 72



## Laboratory Control Sample (LCS)

(LCS) R4064316-5 04/28/24 13:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dieldrin	0.00100	0.000840	84.0	36.0-146	
Endosulfan I	0.00100	0.000828	82.8	45.0-153	
Endosulfan II	0.00100	0.000829	82.9	1.00-202	
Endosulfan sulfate	0.00100	0.000815	81.5	26.0-144	
Endrin	0.00100	0.000837	83.7	30.0-147	
Endrin aldehyde	0.00100	0.000741	74.1	56.0-128	
Endrin ketone	0.00100	0.000800	80.0	54.0-142	
Heptachlor	0.00100	0.000763	76.3	34.0-140	
Heptachlor epoxide	0.00100	0.000814	81.4	37.0-142	
Hexachlorobenzene	0.00100	0.000706	70.6	35.0-120	
Methoxychlor	0.00100	0.000761	76.1	44.0-160	
gamma-Chlordane	0.00100	0.000796	79.6	45.0-140	
alpha-Chlordane	0.00100	0.000768	76.8	45.0-140	
(S) Decachlorobiphenyl			29.0	10.0-144	
(S) Tetrachloro-m-xylene			70.0	10.0-135	

## L1728464-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728464-01 04/28/24 15:40 • (MS) R4064316-6 04/28/24 15:50 • (MSD) R4064316-7 04/28/24 15:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.00100	<0.0000198	0.0000406	0.0000391	4.06	3.91	1	42.0-140	J6	J6	3.76	35
Alpha BHC	0.00100	<0.0000172	0.0000318	0.000285	31.8	28.5	1	37.0-140	J6	J6	10.9	36
Beta BHC	0.00100	<0.0000208	0.0000370	0.000425	37.0	42.5	1	17.0-147			13.8	44
Delta BHC	0.00100	<0.0000150	0.0000298	0.000321	29.8	32.1	1	19.0-140			7.43	52
Gamma BHC	0.00100	<0.0000209	0.0000307	0.000343	30.7	34.3	1	32.0-140	J6		11.1	39
4,4-DDD	0.00100	<0.0000177	0.0000697	0.0000825	6.97	8.25	1	31.0-141	J6	J6	16.8	39
4,4-DDE	0.00100	<0.0000154	0.0000629	0.0000576	6.29	5.76	1	30.0-145	J6	J6	8.80	35
4,4-DDT	0.00100	<0.0000198	0.0000544	0.0000524	5.44	5.24	1	25.0-160	J6	J6	3.75	42
Dieldrin	0.00100	<0.0000162	0.0000849	0.0000782	8.49	7.82	1	36.0-146	J6	J6	8.22	49
Endosulfan I	0.00100	<0.0000160	0.000137	0.000124	13.7	12.4	1	45.0-153	J6	J6	9.96	28
Endosulfan II	0.00100	<0.0000164	0.000121	0.000127	12.1	12.7	1	1.00-202	J6	J6	4.84	53
Endosulfan sulfate	0.00100	<0.0000217	0.000158	0.000147	15.8	14.7	1	26.0-144	J6	J6	7.21	38
Endrin	0.00100	<0.0000161	0.0000956	0.0000924	9.56	9.24	1	30.0-147	J6	J6	3.40	48
Endrin aldehyde	0.00100	<0.0000237	0.000190	0.000191	19.0	19.1	1	56.0-128	J6	J6	0.525	20
Endrin ketone	0.00100	<0.0000219	0.000155	0.000157	15.5	15.7	1	54.0-142	J6	J6	1.28	20
Heptachlor	0.00100	<0.0000148	0.000103	0.000104	10.3	10.4	1	34.0-140	J6	J6	0.966	43
Heptachlor epoxide	0.00100	<0.0000183	0.000121	0.0000988	12.1	9.88	1	37.0-142	J6	J6	20.2	26
Hexachlorobenzene	0.00100	<0.0000176	0.000138	0.000124	13.8	12.4	1	35.0-120	J6	J6	10.7	25

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1728708

DATE/TIME:

05/10/24 12:34

PAGE:

39 of 72

WG2275763

Pesticides (GC) by Method EPA 608.3

QUALITY CONTROL SUMMARY

L1728708-01

L1728464-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728464-01 04/28/24 15:40 • (MS) R4064316-6 04/28/24 15:50 • (MSD) R4064316-7 04/28/24 15:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methoxychlor	0.00100	<0.0000193	0.00000960	0.00000816	9.60	8.16	1	44.0-160	J6	J6	16.2	22
gamma-Chlordane	0.00100	<0.0000137	0.00000554	0.00000561	5.54	5.61	1	45.0-140	J6	J6	1.26	35
alpha-Chlordane	0.00100	<0.0000149	0.00000771	0.00000663	7.71	6.63	1	45.0-140	J6	J6	15.1	35
(S) Decachlorobiphenyl					5.32	4.92		10.0-144	J2	J2		
(S) Tetrachloro-m-xylene					10.6	9.62		10.0-135	J2	J2		

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc



## Method Blank (MB)

(MB) R4064316-1 04/28/24 13:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
PCB 1016	<0.000270		0.000270	0.000500
PCB 1221	<0.000270		0.000270	0.000500
PCB 1232	<0.000270		0.000270	0.000500
PCB 1242	<0.000270		0.000270	0.000500
PCB 1248	<0.000173		0.000173	0.000500
PCB 1254	<0.000173		0.000173	0.000500
PCB 1260	<0.000173		0.000173	0.000500
Total PCBs	<0.000173		0.000173	0.000500
(S) Decachlorobiphenyl	36.8			10.0-144
(S) Tetrachloro-m-xylene	72.7			10.0-135

## Laboratory Control Sample (LCS)

(LCS) R4064316-2 04/28/24 13:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.00250	0.00201	80.4	50.0-140	
PCB 1260	0.00250	0.00138	55.2	8.00-140	
(S) Decachlorobiphenyl			39.1	10.0-144	
(S) Tetrachloro-m-xylene			74.7	10.0-135	

## L1728464-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728464-01 04/28/24 15:40 • (MS) R4064316-3 04/28/24 16:09 • (MSD) R4064316-4 04/28/24 16:19

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1016	0.00250	<0.000270	0.00193	0.00215	77.2	86.0	1	50.0-140				
PCB 1260	0.00250	<0.000173	0.000737	0.000782	29.5	31.3	1	8.00-140				
(S) Decachlorobiphenyl				24.5	24.5	25.8		10.0-144				
(S) Tetrachloro-m-xylene				37.0	37.0	40.5		10.0-135				



(MB) R4062477-1 04/25/24 17:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,2,4,5-Tetrachlorobenzene	<0.00132		0.00132	0.00250
1,2,4-Trichlorobenzene	<0.00159		0.00159	0.00250
1,2-Dichlorobenzene	<0.00168		0.00168	0.00250
1,3-Dichlorobenzene	<0.00170		0.00170	0.00250
1,4-Dichlorobenzene	<0.00184		0.00184	0.00250
2,2-Oxybis(1-Chloropropane)	<0.00116		0.00116	0.00250
2,4,5-Trichlorophenol	<0.00193		0.00193	0.00250
2,4,6-Trichlorophenol	<0.00179		0.00179	0.00250
2,4-Dichlorophenol	<0.000820		0.000820	0.00250
2,4-Dimethylphenol	<0.00142		0.00142	0.00500
2,4-Dinitrophenol	<0.00115		0.00115	0.00500
2,4-Dinitrotoluene	<0.00265		0.00265	0.00500
2,6-Dichlorophenol	<0.00107		0.00107	0.00250
2,6-Dinitrotoluene	<0.00181		0.00181	0.00500
2-Chloronaphthalene	<0.00143		0.00143	0.00250
2-Chlorophenol	<0.000820		0.000820	0.00250
2-Methylphenol	<0.000760		0.000760	0.00500
2-Nitrophenol	<0.00169		0.00169	0.00250
3&4-Methyl Phenol	<0.000767		0.000767	0.00250
3,3-Dichlorobenzidine	<0.00265		0.00265	0.00500
4,6-Dinitro-2-methylphenol	<0.00150		0.00150	0.00500
4-Bromophenyl-phenylether	<0.00104		0.00104	0.00250
4-Chloro-3-methylphenol	<0.000865		0.000865	0.00250
4-Chlorophenyl-phenylether	<0.00140		0.00140	0.00250
4-Nitrophenol	<0.00164		0.00164	0.00500
Acenaphthene	<0.00134		0.00134	0.00250
Acenaphthylene	<0.00134		0.00134	0.00250
Acetophenone	<0.000788		0.000788	0.00250
Alpha-Terpineol	<0.000696		0.000696	0.00250
Aniline	<0.000536		0.000536	0.00250
Anthracene	<0.00111		0.00111	0.00250
Atrazine	<0.00167		0.00167	0.00250
Benzidine	<0.00311		0.00311	0.0100
Benzoflanthracene	<0.000933		0.000933	0.00250
Benzo(a)pyrene	<0.000941		0.000941	0.00250
Benzo(b)fluoranthene	<0.00102		0.00102	0.00250
Benzo(g,h,i)perylene	<0.00101		0.00101	0.00250
Benzo(k)fluoranthene	<0.000934		0.000934	0.00250
Benzoic acid	<0.00657		0.00657	0.0100
Benzylbutyl phthalate	<0.00143		0.00143	0.00250

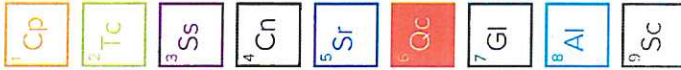
## Method Blank (MB)

(MB) R4062477-1 04/25/24 17:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Bis(2-chloroethoxy)methane	<0.000991		0.000991	0.00250
Bis(2-chloroethyl)ether	<0.00101		0.00101	0.00250
Bis(2-chloroisopropyl)ether	<0.00116		0.00116	0.00250
Bis(2-Ethylhexyl)phthalate	<0.00318		0.00318	0.00500
Carbazole	<0.00106		0.00106	0.00250
Chrysene	<0.00102		0.00102	0.00250
Di-n-butyl phthalate	<0.00120		0.00120	0.00250
Di-n-octyl phthalate	<0.00174		0.00174	0.00250
Dibenz(a,h)anthracene	<0.00110		0.00110	0.00250
Dibenzofuran	<0.00120		0.00120	0.00250
Diethyl phthalate	<0.000915		0.000915	0.00250
Dimethyl phthalate	<0.000878		0.000878	0.00250
Fluoranthene	<0.00114		0.00114	0.00250
Fluorene	<0.00131		0.00131	0.00250
Hexachloro-1,3-butadiene	<0.00176		0.00176	0.00250
Hexachlorobenzene	<0.000972		0.000972	0.00250
Hexachlorocyclopentadiene	<0.00117		0.00117	0.100
Hexachloroethane	<0.00188		0.00188	0.00250
1,2-Diphenylhydrazine	<0.00124		0.00124	0.00250
Indeno(1,2,3-cd)pyrene	<0.000984	N2	0.000984	0.00250
Isophorone	<0.00183		0.00183	0.00250
n-Decane	<0.00158		0.00158	0.00250
n-Nitrosodi-n-butylamine	<0.000735		0.000735	0.00250
n-Nitrosodi-n-propylamine	<0.00107		0.00107	0.00250
n-Nitrosodiethylamine	<0.000925		0.000925	0.00250
n-Nitrosodimethylamine	<0.000651		0.000651	0.00250
n-Nitrosodiphenylamine	<0.000829		0.000829	0.00250
n-Octadecane	<0.00128		0.00128	0.00250
Naphthalene	<0.00200		0.00200	0.00250
Nitrobenzene	<0.00124		0.00124	0.00250
Nonylphenol	<0.00286		0.00286	0.00500
Pentachlorobenzene	<0.00134		0.00134	0.00250
Pentachlorophenol	<0.00210		0.00210	0.00500
Phenanthrene	<0.00113		0.00113	0.00250
Phenol	<0.000967		0.000967	0.00250
Pyrene	<0.00115		0.00115	0.00250
Pyridine	<0.00117		0.00117	0.00250
Total Cresols	<0.00153		0.00153	0.00750
(S) 2,4,6-Tribromophenol	85.7			29.0-132
(S) 2-Fluorobiphenyl	75.7			26.0-102

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1728708DATE/TIME:  
05/10/24 12:34PAGE:  
43 of 72



WG2273235

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

QUALITY CONTROL SUMMARY

L1728708-01

Method Blank (MB)

(MB) R4062477-1 04/25/24 17:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
(S) 2-Fluorophenol	47.9			10.0-66.0
(S) Nitrobenzene-d5	83.4			15.0-106
(S) p-Terphenyl-d14	88.0			10.0-120
(S) Phenol-d6	33.6			10.0-54.0

Laboratory Control Sample (LCS)

(LCS) R4062477-2 04/25/24 18:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,4,5-Tetrachlorobenzene	0.0500	0.0341	68.2	31.0-120	
1,2,4-Trichlorobenzene	0.0500	0.0352	70.4	44.0-142	
1,2-Dichlorobenzene	0.0500	0.0340	68.0	27.0-120	
1,3-Dichlorobenzene	0.0500	0.0324	64.8	26.0-120	
1,4-Dichlorobenzene	0.0500	0.0331	66.2	26.0-120	
2,2-Oxybis(1-Chloropropane)	0.0500	0.0347	69.4	36.0-166	
2,4,5-Trichlorophenol	0.0500	0.0397	79.4	44.0-124	
2,4,6-Trichlorophenol	0.0500	0.0390	78.0	37.0-144	
2,4-Dichlorophenol	0.0500	0.0362	72.4	39.0-135	
2,4-Dimethylphenol	0.0500	0.0307	61.4	32.0-120	
2,4-Dinitrophenol	0.0500	0.0475	95.0	100-191	
2,4-Dinitrotoluene	0.0500	0.0473	94.6	39.0-139	
2,6-Dichlorophenol	0.0500	0.0343	68.6	26.0-120	
2,6-Dinitrotoluene	0.0500	0.0419	83.8	50.0-158	
2-Chloronaphthalene	0.0500	0.0385	77.0	60.0-120	
2-Chlorophenol	0.0500	0.0311	62.2	23.0-134	
2-Methylphenol	0.0500	0.0274	54.8	26.0-120	
2-Nitrophenol	0.0500	0.0345	69.0	29.0-182	
3&4-Methyl Phenol	0.0500	0.0287	57.4	27.0-120	
3,3-Dichlorobenzidine	0.100	0.0781	78.1	100-262	
4,6-Dinitro-2-methylphenol	0.0500	0.0471	94.2	100-181	
4-Bromophenyl-phenylether	0.0500	0.0388	77.6	53.0-127	
4-Chloro-3-methylphenol	0.0500	0.0393	78.6	22.0-147	
4-Chlorophenyl-phenylether	0.0500	0.0430	86.0	25.0-158	
4-Nitrophenol	0.0500	0.0265	53.0	100-132	
Acenaphthene	0.0500	0.0379	75.8	47.0-145	
Acenaphthylene	0.0500	0.0395	79.0	33.0-145	
Acetophenone	0.0500	0.0354	70.8	28.0-120	
Alpha-Terpineol	0.0500	0.0378	75.6	30.0-120	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1728708

DATE/TIME:  
05/10/24 12:34

PAGE:  
44 of 72



## Laboratory Control Sample (LCS)

(LCS) R4062477-2 04/25/24 18:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aniline	0.0500	0.0303	60.6	10.0-120	C5
Anthracene	0.0500	0.0425	85.0	27.0-133	
Atrazine	0.0500	0.0434	86.8	39.0-141	
Benzidine	0.100	0.0377	37.7	1.00-120	
Benzo(a)anthracene	0.0500	0.0422	84.4	33.0-143	N2
Benzo(a)pyrene	0.0500	0.0474	94.8	17.0-163	
Benzo(b)fluoranthene	0.0500	0.0476	95.2	24.0-159	
Benzo(g,h,i)perylene	0.0500	0.0397	79.4	1.00-219	
Benzo(k)fluoranthene	0.0500	0.0419	83.8	11.0-162	C5
Benzoic acid	0.100	0.0215	21.5	10.0-120	
Benzylbutyl phthalate	0.0500	0.0439	87.8	1.00-152	
Bis(2-chloroethoxy)methane	0.0500	0.0366	73.2	1.00-219	
Bis(2-chloroethyl)ether	0.0500	0.0321	64.2	33.0-185	N2
Bis(2-chloroisopropyl)ether	0.0500	0.0347	69.4	36.0-166	
Bis(2-Ethylhexyl)phthalate	0.0500	0.0442	88.4	8.00-158	
Carbazole	0.0500	0.0555	111	45.0-121	
Chrysene	0.0500	0.0427	85.4	17.0-168	C5
Di-n-butyl phthalate	0.0500	0.0434	86.8	1.00-120	
Di-n-octyl phthalate	0.0500	0.0451	90.2	4.00-146	
Dibenz(a,h)anthracene	0.0500	0.0422	84.4	1.00-227	
Dibenzofuran	0.0500	0.0404	80.8	42.0-120	N2
Diethyl phthalate	0.0500	0.0438	87.6	1.00-120	
Dimethyl phthalate	0.0500	0.0406	81.2	1.00-120	
Fluoranthene	0.0500	0.0432	86.4	26.0-137	
Fluorene	0.0500	0.0438	87.6	59.0-121	C5
Hexachloro-1,3-butadiene	0.0500	0.0362	72.4	24.0-120	
Hexachlorobenzene	0.0500	0.0394	78.8	1.00-152	
Hexachlorocyclopentadiene	0.0500	0.0352	70.4	10.0-120	
Hexachloroethane	0.0500	0.0345	69.0	40.0-120	N2
1,2-Diphenylhydrazine	0.0500	0.0401	80.2	37.0-125	
Indeno(1,2,3-cd)pyrene	0.0500	0.0418	83.6	1.00-171	
Isophorone	0.0500	0.0385	77.0	21.0-196	
n-Decane	0.0500	0.0293	58.6	10.0-127	C5
n-Nitrosodi-n-butylamine	0.0500	0.0350	70.0	39.0-127	
n-Nitrosodi-n-propylamine	0.0500	0.0389	77.8	1.00-230	
n-Nitrosodimethylamine	0.0500	0.0338	67.6	10.0-142	
n-Nitrosodiphenylamine	0.0500	0.0195	39.0	10.0-120	N2
n-Octadecane	0.0500	0.0386	77.2	44.0-120	
Naphthalene	0.0500	0.0388	77.6	17.0-126	
	0.0500	0.0361	72.2	21.0-133	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1728708DATE/TIME:  
05/10/24 12:34PAGE:  
45 of 72

WG2273235

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

QUALITY CONTROL SUMMARY

L1728708-01

Laboratory Control Sample (LCS)

(LCS) R4062477-2 04/25/24 18:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrobenzene	0.0500	0.0384	76.8	35.0-180	
Nonylphenol	0.0500	0.0494	98.8	57.0-136	
Pentachlorobenzene	0.0500	0.0370	74.0	10.0-151	
Pentachlorophenol	0.0500	0.0346	69.2	14.0-176	
Phenanthrene	0.0500	0.0408	81.6	54.0-120	
Phenol	0.0500	0.0159	31.8	5.00-120	
Pyrene	0.0500	0.0438	87.6	52.0-120	
Pyridine	0.0500	0.00903	18.1	10.0-120	
Total Cresols	0.100	0.0561	56.1	36.0-110	
(S) 2,4,6-Tribromophenol			85.1	29.0-132	
(S) 2-Fluorobiphenyl			72.4	26.0-102	
(S) 2-Fluorophenol			41.8	10.0-66.0	
(S) Nitrobenzene-d5			73.6	15.0-106	
(S) p-Terphenyl-d14			83.7	10.0-120	
(S) Phenol-d6			31.3	10.0-54.0	

L1728464-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728464-04 04/26/24 03:54 • (MS) R4062477-3 04/26/24 02:55 • (MSD) R4062477-4 04/26/24 03:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2,4,5-Tetrachlorobenzene	0.0510	<0.00132	0.0210	0.0255	41.2	49.0	1.02	10.0-147			19.4	34
1,2,4-Trichlorobenzene	0.0510	<0.00159	0.0200	0.0240	39.2	46.2	1.02	44.0-142	J6		18.2	50
1,2-Dichlorobenzene	0.0510	<0.00168	0.0179	0.0215	35.1	41.3	1.02	14.0-125			18.3	24
1,3-Dichlorobenzene	0.0510	<0.00170	0.0175	0.0202	34.3	38.8	1.02	12.0-123			14.3	22
1,4-Dichlorobenzene	0.0510	<0.00184	0.0168	0.0196	32.9	37.7	1.02	12.0-125			15.4	23
2,2-Oxybis(1-Chloropropane)	0.0510	<0.00116	0.0203	0.0229	39.8	44.0	1.02	36.0-166			12.0	76
2,4,5-Trichlorophenol	0.0510	<0.00193	0.0301	0.0327	59.0	62.9	1.02	15.0-160			8.28	27
2,4,6-Trichlorophenol	0.0510	<0.00179	0.0285	0.0339	55.9	65.2	1.02	37.0-144			17.3	58
2,4-Dichlorophenol	0.0510	<0.000820	0.0239	0.0255	46.9	49.0	1.02	39.0-135			6.48	50
2,4-Dimethylphenol	0.0510	<0.00142	0.0263	0.0255	51.6	49.0	1.02	32.0-120			3.09	58
2,4-Dinitrophenol	0.0510	<0.00115	0.0290	0.0301	56.9	57.9	1.02	100-191			3.72	132
2,4-Dinitrotoluene	0.0510	<0.00265	0.0407	0.0431	79.8	82.9	1.02	39.0-139	J6		5.73	42
2,6-Dichlorophenol	0.0510	<0.00107	0.0226	0.0246	44.3	47.3	1.02	60.0-140	J6	J6	8.47	30
2,6-Dinitrotoluene	0.0510	<0.00181	0.0329	0.0372	64.5	71.5	1.02	50.0-158			12.3	48
2-Chloronaphthalene	0.0510	<0.00143	0.0252	0.0289	49.4	55.6	1.02	60.0-120	J6	J6	13.7	24
2-Chlorophenol	0.0510	<0.000820	0.0178	0.0181	34.9	34.8	1.02	23.0-134			1.67	61
2-Methylphenol	0.0510	<0.000760	0.0186	0.0169	36.5	32.5	1.02	14.0-120			9.58	29
2-Nitrophenol	0.0510	<0.00169	0.0241	0.0262	47.3	50.4	1.02	29.0-182			8.35	55

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1728708

DATE/TIME:  
05/10/24 12:34

PAGE:  
46 of 72



## L1728464-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728464-04 04/26/24 03:54 • (MS) R4062477-3 04/26/24 02:55 • (MSD) R4062477-4 04/26/24 03:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
3,4-Methyl Phenol	0.0510	<0.000767	0.0173	0.0163	33.9	31.3	1.02	13.0-124			5.95	26
3,3-Dichlorobenzidine	0.102	<0.00265	0.0163	0.0103	16.0	9.90	1.02	1.00-262			45.1	108
4,6-Dinitro-2-methylphenol	0.0510	<0.00150	0.0335	0.0334	65.7	64.2	1.02	1.00-181			0.299	203
4-Bromophenyl-phenylether	0.0510	<0.00104	0.0329	0.0363	64.5	69.8	1.02	53.0-127			9.83	43
4-Chloro-3-methylphenol	0.0510	<0.000865	0.0295	0.0284	57.8	54.6	1.02	22.0-147			3.80	73
4-Chlorophenyl-phenylether	0.0510	<0.00140	0.0356	0.0412	69.8	79.2	1.02	25.0-158			14.6	61
4-Nitrophenol	0.0510	<0.00164	0.0193	0.0218	37.8	41.9	1.02	1.00-132			12.2	131
Acenaphthene	0.0510	<0.00134	0.0264	0.0310	51.8	59.6	1.02	47.0-145			16.0	48
Acenaphthylene	0.0510	<0.00134	0.0267	0.0314	52.4	60.4	1.02	33.0-145			16.2	74
Acetophenone	0.0510	<0.000788	0.0205	0.0256	40.2	49.2	1.02	10.0-139			22.1	35
Alpha-Terpineol	0.0510	<0.000696	0.0232	0.0263	45.5	50.6	1.02	30.0-120			12.5	30
Aniline	0.0510	<0.000536	0.0241	0.0262	47.3	50.4	1.02	10.0-120	C5		8.35	25
Anthracene	0.0510	<0.00111	0.0354	0.0387	69.4	74.4	1.02	27.0-133			8.91	66
Atrazine	0.0510	<0.00167	0.0477	0.0550	93.5	106	1.02	39.0-130			14.2	30
Benazoline	0.102	<0.00311	<0.00317	<0.00323	0.000	0.000	1.02	1.00-120	J6		0.000	40
Benzo(a)anthracene	0.0510	<0.000933	0.0391	0.0422	76.7	81.2	1.02	33.0-143			7.63	53
Benzo(a)pyrene	0.0510	<0.000941	0.0423	0.0463	82.9	89.0	1.02	17.0-163			9.03	72
Benzo(b)fluoranthene	0.0510	<0.00102	0.0422	0.0460	82.7	88.5	1.02	24.0-159			8.62	71
Benzo(g,h,i)perylene	0.0510	<0.00101	0.0368	0.0434	72.2	83.5	1.02	1.00-219			16.5	97
Benzo(k)fluoranthene	0.0510	<0.000934	0.0399	0.0435	78.2	83.7	1.02	11.0-162			8.63	63
Benzoic acid	0.102	<0.00657	0.0162	0.0357	15.9	34.3	1.02	10.0-120		J3	75.1	40
Benzylbutyl phthalate	0.0510	<0.00143	0.0453	0.0482	88.8	92.7	1.02	1.00-152			6.20	60
Bis(2-chloroethoxy)methane	0.0510	<0.000991	0.0237	0.0278	46.5	53.5	1.02	33.0-184			15.9	54
Bis(2-chloroethyl)ether	0.0510	<0.00101	0.0192	0.0226	37.6	43.5	1.02	12.0-158			16.3	108
Bis(2-chloroisopropyl)ether	0.0510	<0.00116	0.0203	0.0229	39.8	44.0	1.02	36.0-166			12.0	76
Bis(2-Ethylhexyl)phthalate	0.0510	<0.00318	0.0442	0.0470	86.7	90.4	1.02	8.00-158			6.14	82
Carbazole	0.0510	<0.00106	0.0459	0.0532	90.0	102	1.02	23.0-158			14.7	26
Chrysene	0.0510	<0.00102	0.0398	0.0442	78.0	85.0	1.02	17.0-168			10.5	87
Di-n-butyl phthalate	0.0510	<0.00120	0.0420	0.0469	82.4	90.2	1.02	1.00-120			11.0	47
Di-n-octyl phthalate	0.0510	<0.00174	0.0431	0.0459	84.5	88.3	1.02	4.00-146			6.29	69
Dibenz(a,h)anthracene	0.0510	<0.00110	0.0381	0.0445	74.7	85.6	1.02	1.00-227			15.5	126
Dibenzofuran	0.0510	<0.00120	0.0292	0.0334	57.3	64.2	1.02	17.0-150			13.4	27
Diethyl phthalate	0.0510	<0.000915	0.0368	0.0402	72.2	77.3	1.02	1.00-120			8.83	100
Dimethyl phthalate	0.0510	<0.000878	0.0325	0.0355	63.7	68.3	1.02	1.00-120			8.82	183
Fluoranthene	0.0510	<0.00114	0.0399	0.0437	78.2	84.0	1.02	26.0-137			9.09	66
Fluorene	0.0510	<0.00131	0.0386	0.0438	75.7	84.2	1.02	59.0-121			12.6	38
Hexachloro-1,3-butadiene	0.0510	<0.00176	0.0188	0.0249	36.9	47.9	1.02	24.0-120			27.9	62
Hexachlorobenzene	0.0510	<0.000972	0.0326	0.0367	63.9	70.6	1.02	1.00-152			11.8	55
Hexachlorocyclopentadiene	0.0510	<0.00117	0.0214	0.0275	42.0	52.9	1.02	10.0-146			24.9	34
Hexachloroethane	0.0510	<0.00188	0.0168	0.0182	32.9	35.0	1.02	40.0-120	J6		8.00	52

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1728708

DATE/TIME:

05/10/24 12:34

PAGE:

47 of 72



WG2273235

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

QUALITY CONTROL SUMMARY

L1728708-01

L1728464-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728464-04 04/26/24 03:54 • (MS) R4062477-3 04/26/24 02:55 • (MSD) R4062477-4 04/26/24 03:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2-Diphenylhydrazine	0.0510	<0.00124	0.0321	0.0358	62.9	68.8	1.02	18.0-156	N2	N2	10.9	34
Indeno[1,2,3-cd]pyrene	0.0510	<0.000984	0.0348	0.0412	68.2	79.2	1.02	100-171			16.8	99
Isophorone	0.0510	<0.00183	0.0240	0.0282	47.1	54.2	1.02	21.0-196			16.1	93
n-Decane	0.0510	<0.00158	0.0141	0.0156	27.6	30.0	1.02	10.0-127			10.1	37
n-Nitrosodi-n-butylamine	0.0510	<0.000735	0.0246	0.0271	48.2	52.1	1.02	60.0-140	J6	J6	9.67	30
n-Nitrosodi-n-propylamine	0.0510	<0.00107	0.0243	0.0264	47.6	50.8	1.02	100-230			8.28	87
n-Nitrosodimethylamine	0.0510	<0.000925	0.0207	0.0222	40.6	42.7	1.02	60.0-140	J6	J6	6.99	30
n-Nitrosodiphenylamine	0.0510	<0.000651	0.0118	0.0136	23.1	26.2	1.02	10.0-120			14.2	40
n-Octadecane	0.0510	<0.000829	0.0328	0.0349	64.3	67.1	1.02	16.0-160			6.20	28
Naphthalene	0.0510	<0.00128	0.0323	0.0396	63.3	76.2	1.02	17.0-126			20.3	23
Nitrobenzene	0.0510	<0.00200	0.0260	0.0312	51.0	60.0	1.02	21.0-133			18.2	65
Nonylphenol	0.0510	<0.00124	0.0298	0.0351	58.4	67.5	1.02	35.0-180			16.3	62
Pentachlorobenzene	0.0510	<0.00286	0.0469	0.0493	92.0	94.8	1.02	37.0-142			4.99	40
Pentachlorophenol	0.0510	<0.00134	0.0272	0.0312	53.3	60.0	1.02	60.0-140	J6		13.7	30
Phenanthrene	0.0510	<0.00210	0.0432	0.0467	84.7	89.8	1.02	14.0-176			7.79	86
Phenol	0.0510	<0.00113	0.0363	0.0397	71.2	76.3	1.02	54.0-120			8.95	39
Pyrene	0.0510	<0.000967	0.00993	0.00979	19.5	18.8	1.02	5.00-120			1.42	64
Pyridine	0.0510	<0.00115	0.0382	0.0436	74.9	83.8	1.02	52.0-120			13.2	49
Pyridine	0.0510	<0.00117	0.0105	0.0109	20.6	21.0	1.02	10.0-120			3.74	40
Total Cresols	0.102	<0.00153	0.0359	0.0332	35.2	31.9	1.02	10.0-118			7.81	40
(S) 2,4,6-Tribromophenol					74.5	75.4		29.0-132				
(S) 2-Fluorobiphenyl					44.6	53.7		26.0-102				
(S) 2-Fluorophenol					21.5	20.7		10.0-66.0				
(S) Nitrobenzene-d5					42.3	49.4		15.0-106				
(S) p-Terphenyl-d14					79.8	79.2		10.0-120				
(S) Phenol-d6					17.4	16.7		10.0-54.0				

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1728708

DATE/TIME:  
05/10/24 12:34

PAGE:  
48 of 72



# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
N2	Analyte reported using a calibration and validation based on Azobenzene (CAS 103-33-3). 1,2-Diphenylhydrazine decomposes into Azobenzene during the analysis.
T8	Sample(s) received past/too close to holding time expiration.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1 6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1 4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	AZLA
AZLA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
AZLA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

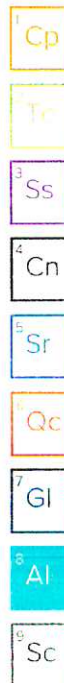
## Pace Analytical Services, LLC -Dallas 400 W. Bethany Drive Suite 190 Allen, TX 75013

Arkansas	88-0647	Kansas	E10388
Florida	E871118	Texas	T104704232-23-39
Iowa	408	Oklahoma	8727
Louisiana	30686		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





# Holiday Beach WSC

PO Box 807  
Fulton, TX 78358

Report to:  
Vernon Hale

Project Description:

PERMIT RENEWAL

Phone: 361-205-3184

WEEK

Client Project #

City/State

Collected:

Rockport TX

Lab Project #

Email To: water@hbwscc.com

Vernon Hale  
2611 Highway 35 North  
Rockport, TX 78382

Billing Information:

Analysis / Container / Preservation

Chain of Custody

Page 1 of 2



ALLEN, TX

400 W. Bethany Drive Suite 140 Allen, TX 75013  
Submitting a sample via this chain of custody  
constitutes acknowledgment and acceptance of the  
Pace Terms and Conditions found at:  
<https://info.pacelabs.com/public/pace-terms.pdf>

SDG # **L1728708**

Table #

Account: HOLBEAFTX

Template: T251266

Prelogin: P1069766

PM: 3587 - Lori A Vahrenkamp

PB:

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

01

Pres  
Chk

Please Circle:

PT MT CT ET

P.O. #

Quote #

Date Results Needed

No. of

Cntrs

Time

Date

Depth

Matrix \*

Comp/Grab

WW

4/23/24

0815A

17

RO DISCHARGE

Grab

WW

4/23/24

0815A

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RO DISCHARGE

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Company Name/Address: Holiday Beach WSC, PO Box 807, Fulton, TX 78358. Billing Information: Vernon Hale, 2611 Highway 35 North, Rockport, TX 78382. Report to: Vernon Hale. Project Description: ... Chain of Custody Page 2 of 2. Pace PEOPLE ADVANCING SCIENCE. ALLEN, TX. 400 W. Bethany Drive Suite 150 Allen, TX 75013. Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/whatfast-standard-terms.pdf. SDG # L728708. Table #. Acctnum: HOLBEAFTX. Template: T251266. Prelogin: P1069766. PM: 3587 - Lori A Vahrenkamp. PB. Shipped Via: FedEx Ground. Remarks: Sample # (lab only) -01. Analysis / Container / Preservative: WetChem 500mlHDPE-NoPres, WetChem 250mlHDPE-H2SO4, SVOCs IL-Amb-No Pres. pH, Temp, Flow, Other. Sample Receipt Checklist: COC Seal Present/Intact: Y N, COC Signed/Accurate: Y N, Bottles arrive intact: Y N, Correct bottles used: Y N, Sufficient volume sent: Y N, If Applicable: VOA Zero Headspace: Y N, Preservation Correct/Checked: Y N, PAD Screen <0.5 mR/hr: Y N. Trip Blank Received: Yes/No HCL/Mech TBR. Temp: °C Bottles Received: Date: Time: Relinquished by: (Signature) Date: Time: Condition: NCF / OK.

Time estimate: oh

Time spent: oh

## Members

OC Olivia Currie (responsible)

1. If Chain-of-custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

\*Collection date/time missing or incorrect

\*Analyses or analytes: missing or Clarification needed

\*Samples listed on COC do not match samples received (missing, additional, etc.)

\*Sample IDs on COC do not match sample Labels

\*Required trip blanks were not received

\*Required signatures are missing

3. Sample integrity issues: check applicable issues below and add details where appropriate:

\*Samples: Past holding time

\*Samples: Not Field Filtered

\*Samples: Insufficient volume received

\*Samples: Cooler damaged or compromised

\*Samples: contain Chlorine or Sulfide

\*Samples: condition needs to be brought to lab personnel's attention (details below)

\*Containers: Broken or compromised

\*Containers: Incorrect

\*Custody Seals: missing or compromised on samples, trip blanks or coolers

\*Packing Material: Insufficient/Improper

\*Preservation: improper

\*Temperature: not within acceptance criteria (typically 0-6C)

\*Temperature: Samples arrived frozen

\*Vials received with improper headspace

\*Other:

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

Sample ID: RO DISCHARGE

Preserved by: AG

Date/Time: 04/24/24 1655

Initial and Final pH: 8/0

Amount/type pres added: 2.5ml HNO<sub>3</sub>

Lot # of Pres added:

5. Client contact: If Client is Contacted for any issue listed above, fill in details below:

Client:

PM Initials:

Contacted per:

Date/Time:

Comments



24 April 2024 5:36 PM

Olivia Currie  
Sulfide pH of 10  
metals pH of 8; see details above

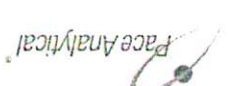
3923367 23Apr2024-VCTA 50166/07EC/C000



AD DNA

FedEx  
155 0316 3057

WED - 24 APR AA  
PRIORITY OVERNIGHT  
75013  
TX-US  
DFW

	
Document Name:	Sample Condition Upon Receipt
Document No.:	F-DAL-C-001-rev.14
Issuing Authority: Pace Dallas Quality Office	
Document Revised: 7/27/20 Page 1 of 1	

☒ Dallas  
 ☐ Ft Worth  
 ☐ Corpus Christi  
 ☐ Austin

### Sample Condition Upon Receipt

Client Name: Holiday Beach WSC  
 Tracking #: 7155 0316 9057  
 Courier: ☒ FedEx  
 ☐ UPS  
 ☐ USPS  
 ☐ Client  
 ☐ LSO  
 ☐ PACE  
 ☐ Other:

Custody Seal on Cooler/Box: Yes ☒ No ☐

Received on ice: Wet ☒ Blue ☐ No ice ☐

Receiving Lab 1 Thermometer Used: 1214

Receiving Lab 2 Thermometer Used:

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable

Triage Person: AK Date: 7/27/20

Chain of Custody relinquished	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sampler name & signature on COC	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Short HT analyses (<72 hrs)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Login Person: AC Date: 7/27

Sufficient Volume received	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Correct Container used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Container Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample pH Acceptable	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Residual Chlorine Present	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
CI Strips:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Sulfide Present	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Lead Acetate Strips:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Are soil samples (volatiles, TPH) received in 5035A kits (not applicable to TCLP VOA or PST Program TPH)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Unpreserved 5035A soil frozen within 48 hrs	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Headspace in VOA (>6mm)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Project sampled in USDA Regulated Area outside of Texas	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
State Sampled:	
Non-Conformance(s):	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <u>07/27</u>

Labeling Person (if different than log-in): \_\_\_\_\_ Date: \_\_\_\_\_



Company Name/Address

**Holiday Beach WSC**

PO Box 807  
Fulton, TX 78358

Billing Information:

Vernon Hale  
2611 Highway 35 North  
Rockport, TX 78382

Report to:

Vernon Hale

Email To: water@hbwscc.com

Project Description:

PERMIT RENEWAL

VIEK

City/State

Collected: ROCKPORT TX

Please Circle: PT MT CT ET

Phone: 361-205-3184

Client Project #

Lab Project #

Collected by (print):

VERNON A HALE

Site/Facility ID #

TX 0040015

P.O. #

Quote #

Date Results Needed

No. of Cntrs

Time

Date

Depth

Matrix \*

WW

4/23/24 08:5A

12

RO DISCHARGE

Grab

Comp/Grab

Depth

Matrix \*

WW

4/23/24 08:5A

12

RO DISCHARGE

Grab

Comp/Grab

Depth

Matrix \*

WW

4/23/24 08:5A

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RO DISCHARGE

Grab

Comp/Grab

Depth

Matrix \*

WW

4/23/24 08:5A

12

RO DISCHARGE

Grab



Company Name/Address				Billing Information				Analysis / Contaminant / Preservation				Chain of Custody			
<b>Holiday Beach WSC</b> PO Box 807 Fulton, TX 78358				<b>Vernon Hale</b> 2611 Highway 35 North Rockport, TX 78382				Date of Custody: <b>Page 2 of 3</b> Signature: <i>Pace</i> Title: <b>ALLEN, TX</b>				Date of Custody: <b>Page 2 of 3</b> Signature: <i>Pace</i> Title: <b>ALLEN, TX</b>			
Report to: <b>Vernon Hale</b> Project Description:				Email To: <b>water@hbwsc.com</b>				Table # <b>SDG # 11728708</b>				Accrual: <b>HOLBEAFTX</b> Template: <b>T251266</b> Prelogin: <b>P1069766</b> PM: <b>3587 - Lori A Vahrenkamp</b> PG:			
Phone: <b>361-205-3184</b>				Client Project #				Lab Project #				Shipped Via: <b>FedEx Ground</b> Signature:			
Collected by (print):				Site/Facility ID #				P.O. #				Sample ID			
Collected by (signature):				Rush? (Lab MUST be Noticed) Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rush Only) <input type="checkbox"/> Ten Day <input type="checkbox"/> 10 Day (Rush Only) <input type="checkbox"/> Three Day <input type="checkbox"/>				Quote #				Date Result Needed			
Immediately Packed on Ice: N <input type="checkbox"/> Y <input type="checkbox"/>				Comp/Grab				Matrix: <b>WW</b>				Date			
Sample ID: <b>RO DISHWASH</b>				Date: <b>4/23/24</b>				Time: <b>0815A</b>				Count: <b>17</b>			
Matrix: <b>SS Soil AIR Air F Filter</b> <b>GW Groundwater B Biosolids</b> <b>WW Wastewater</b> <b>DW Drinking Water</b> <b>OT Other</b>				Samples returned via: UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/>				Tracking #				Temp: <b>Temp</b> Fow: <b>Fow</b> Other: <b>Other</b>			
Requisitioned by (signature):				Date				Trip Blank Received: <b>Yes/No</b> HCL / Mechl				Temp: <b>Temp</b> Fow: <b>Fow</b> Other: <b>Other</b>			
Requisitioned by (signature):				Date				Temp: <b>Temp</b> Fow: <b>Fow</b> Other: <b>Other</b>				Temp: <b>Temp</b> Fow: <b>Fow</b> Other: <b>Other</b>			
Requisitioned by (signature):				Date				Temp: <b>Temp</b> Fow: <b>Fow</b> Other: <b>Other</b>				Temp: <b>Temp</b> Fow: <b>Fow</b> Other: <b>Other</b>			

9823367 23APR2024 NCTA 69106/BTEC/C850



AD DNEA

FedEx  
0221 155 0316 3057

WED - 24 APR AA  
PRIORITY OVERNIGHT  
75013  
TX-US  
DFW



Document Name:	Sample Condition Upon Receipt	Document No.:	F-DAL-C-001-rev 1A
Document Revised: 7/27/20	Page 1 of 1	Issuing Authority:	Pace Dallas Quality Office

☒ Dallas ☐ Ft Worth ☐ Corpus Christi ☐ Austin

### Sample Condition Upon Receipt

Client Name: Holiday Beach WSC Project Work order (place label):

Carrier: FedEX ☐ UPS ☐ USPS ☐ Client ☐ LSO ☐ PACE ☐ Other:

Tracking #: 7155 0314 9057

Custody Seal on Cooler/Box: Yes ☒ No ☐

Received on ice: Wet ☒ Blue ☐ No ice ☐

Receiving Lab 1 Thermometer Used: 1214

Receiving Lab 2 Thermometer Used: 21

Cooler Temp °C: (Recorded) +0.2 (Correction Factor) 2.3 (Actual)

Temperature should be above freezing to 6 °C unless collected same day as receipt in which evidence of cooling is acceptable

Triage Person AK

Date: 4/24/24

Chain of Custody relinquished	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sampler name & signature on COC	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Short HI analyses (<72 hrs)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Login Person AC

Date: 4/24

Sufficient Volume received	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Cooler Container used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Container Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample pH Acceptable	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
pH Strips:	<u>13.000004</u>
Residual Chlorine Present	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Cl Strips:	<u>148860</u>
Sulfide Present	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Lead Acetate Strips:	<u>1442</u>
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Unpreserved 5035A soil frozen within 48 hrs	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Headspace in VOA (>6mm)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Project sampled in USDA Regulated Area outside of Texas	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
State Sampled:	
Non-Conformance(s):	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <u>02/4/24</u>

Labeling Person (if different than log-in):

Date:



Pace Analytical Services, LLC  
1241 Bellevue Street - Suite 9  
Green Bay, WI 54302  
(920)469-2436

May 02, 2024

Jeremy Watkins  
Pace Analytical Dallas  
400 West Bethany Drive  
Suite 190  
Allen, TX 75013

RE: Project: L1728708 WG2273737  
Pace Project No.: 40277363

Dear Jeremy Watkins:

Enclosed are the analytical results for sample(s) received by the laboratory on April 25, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela Lane  
angela.lane@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures

cc: Client Services, Pace Analytical Allen



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: L1728708 WG2273737  
Pace Project No.: 40277363

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### Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302  
Florida/NELAP Certification #: E87948  
Illinois Certification #: 200050  
Kentucky UST Certification #: 82  
Louisiana Certification #: 04168  
Minnesota Certification #: 055-999-334  
New York Certification #: 12064  
North Dakota Certification #: R-150

South Carolina Certification #: 83006001  
Texas Certification #: T104704529-21-8  
Virginia VELAP Certification ID: 11873  
Wisconsin Certification #: 405132750  
Wisconsin DATCP Certification #: 105-444  
USDA Soil Permit #: P330-21-00008  
Federal Fish & Wildlife Permit #: 51774A

---

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Pace Analytical Services, LLC  
1241 Bellevue Street - Suite 9  
Green Bay, WI 54302  
(920)469-2436

## SAMPLE SUMMARY

Project: L1728708 WG2273737

Pace Project No.: 40277363

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40277363001	RO DISCHARGE	Water	04/23/24 08:15	04/25/24 09:50

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: L1728708 WG2273737  
Pace Project No.: 40277363

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40277363001	RO DISCHARGE	EPA 1631E	MRP	1

PASI-G = Pace Analytical Services - Green Bay

## REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC  
1241 Bellevue Street - Suite 9  
Green Bay, WI 54302  
(920)469-2436

## ANALYTICAL RESULTS

Project: L1728708 WG2273737

Pace Project No.: 40277363

<b>Sample: RO DISCHARGE</b>		<b>Lab ID: 40277363001</b>	Collected: 04/23/24 08:15		Received: 04/25/24 09:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>1631E Mercury, Low Level</b>		Analytical Method: EPA 1631E Preparation Method: EPA 1631E Pace Analytical Services - Green Bay						
Mercury	ND	ng/L	0.50	1	04/30/24 09:30	05/02/24 12:24	7439-97-6	

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: L1728708 WG2273737  
Pace Project No.: 40277363

QC Batch: 473091 Analysis Method: EPA 1631E  
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40277363001

METHOD BLANK: 2709383 Matrix: Water  
Associated Lab Samples: 40277363001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	05/02/24 11:20	

METHOD BLANK: 2709384 Matrix: Water  
Associated Lab Samples: 40277363001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	05/02/24 12:58	

METHOD BLANK: 2709385 Matrix: Water  
Associated Lab Samples: 40277363001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	05/02/24 13:12	

METHOD BLANK: 2709386 Matrix: Water  
Associated Lab Samples: 40277363001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.53	05/02/24 11:26	

LABORATORY CONTROL SAMPLE: 2709387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ng/L	5	5.28	106	79-121	

LABORATORY CONTROL SAMPLE: 2709388

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ng/L	5	4.72	94	79-121	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: L1728708 WG2273737

Pace Project No.: 40277363

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2711607 2711608												
Parameter	Units	40277443001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	10.2	20	20	29.2	27.9	95	89	75-125	5	24	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: L1728708 WG2273737  
Pace Project No.: 40277363

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
ND - Not Detected at or above adjusted reporting limit.  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1728708 WG2273737  
Pace Project No.: 40277363

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40277363001	RO DISCHARGE	EPA 1631E	473091	EPA 1631E	473467

## REPORT OF LABORATORY ANALYSIS

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40277363

## Sub-Contract Chain of Custody

Batch Date/Time: 04/24/24 16:22  
 Sub-Contract Lab: PACEGBWI  
 Address: 1241 Bellvue Street, Suite 9  
 City/State: Green Bay, WI 54302  
 Contact:  
 Angela.Lane@pacelabs.com  
 Owner Lab: PACEATX  
 Address: 400 W. Bethany Drive  
 Suite 190  
 City/State: Allen, TX 75013  
 Phone: (972) 727-1123  
 Fax:

WO: WG2273737  
 Email: Dallas\_Sub@pacelabs.com  
 Results Due Date: 05/01/24  
 ESC Purchase Order #: L1728708  
 Send Reports to: Olivia M Currie



400 W. Bethany Drive Suite 190  
 Allen, TX 75013  
 Phone: (972) 727-1123

Sample ID Container ID	Matrix	State	Collect Date	Description	Method	Sample Number Lab Use Only	Sample Comments Lab Use Only
RO DISCHARGE 47407418	WW	TX	04/23/24 08:15	Low Level Hg	-	1. L1728708-01	001

\*= Container used for multiple Samples and/or Analyses

Relinquished by: Olivia Currie PACE Date: 4/24/24 1700  
 Recieved by: FedEx Date: 4/24/24 1700  
 Relinquished by: FedEx Date: 4/24/24 0950  
 Recieved by: mpu Date: 4/24/24 0950

40277363





### Sample Condition Upon Receipt Form (SCUR)

Client Name: Pace TX

Project #:

Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Walco  
☐ Client ☐ Pace Other:

WO#: 40277363



Tracking #: 7411 4452 8155

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - NA

Type of Ice: Wet Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: NA / Corr:

Temp Blank Present: ☐ yes ☒ no

Biological Tissue is Frozen: ☐ yes ☒ no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:

Date: 4/25/14 / Initials: SKW

Labeled By Initials: SKW

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	4. <u>1 kmw mt 4/25/14</u>
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: Pace Green Bay, <u>Pace IR</u> , Non-Pace		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

#### Client Notification/ Resolution:

Person Contacted:

Date/Time:

If checked, see attached form for additional comments ☐

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample log in

Page 2 of 2



# ANALYTICAL REPORT

May 16, 2024

## Holiday Beach WSC

Sample Delivery Group: L1731230  
Samples Received: 05/01/2024  
Project Number:  
Description:

Report To: Vernon Hale  
PO Box 807  
Fulton, TX 78358

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Entire Report Reviewed By:

Lori A Vahrenkamp  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com



# TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
RO DISCHARGE L1731230-01	5
Qc: Quality Control Summary	11
Gravimetric Analysis by Method 2540C	11
Gravimetric Analysis by Method 2540D	13
Wet Chemistry by Method 1664A	14
Wet Chemistry by Method 2120B	15
Wet Chemistry by Method 2320B	16
Wet Chemistry by Method 300.0	17
Wet Chemistry by Method 3500Cr-B	18
Wet Chemistry by Method 351.2	19
Wet Chemistry by Method 353.2	20
Wet Chemistry by Method 4500CN-E	21
Wet Chemistry by Method 4500P-E	22
Wet Chemistry by Method 4500-S2 D	23
Wet Chemistry by Method 5210 B-2016	24
Wet Chemistry by Method 5220D	26
Wet Chemistry by Method 5310C	27
Wet Chemistry by Method 5540C	28
Wet Chemistry by Method SM 4500-H+B	29
Wet Chemistry by Method SM4500NH3H	30
Metals (ICP) by Method 200.7	31
Volatile Organic Compounds (GC/MS) by Method 624.1	34
Pesticides (GC) by Method EPA 608.3	37
Polychlorinated Biphenyls (GC) by Method EPA-608.3	40
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	41
Gl: Glossary of Terms	48
Al: Accreditations & Locations	49
Sc: Sample Chain of Custody	50





# SAMPLE SUMMARY

RO DISCHARGE L1731230-01 WW

Collected by  
Vernon Hale

Collected date/time  
04/30/24 08:15

Received date/time  
05/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2280184	1	05/07/24 13:20	05/07/24 13:20	SKH	Allen, TX
Gravimetric Analysis by Method 2540C	WG2279100	1	05/02/24 14:33	05/02/24 16:02	QQT	Allen, TX
Gravimetric Analysis by Method 2540C	WG2280611	1	05/05/24 11:31	05/05/24 12:57	QQT	Allen, TX
Gravimetric Analysis by Method 2540D	WG2280949	1	05/06/24 09:12	05/06/24 10:18	QQT	Allen, TX
Wet Chemistry by Method 1664A	WG2281059	1	05/06/24 18:10	05/07/24 10:54	TK	Allen, TX
Wet Chemistry by Method 2120B	WG2278320	1	05/01/24 16:10	05/01/24 16:10	SMC	Allen, TX
Wet Chemistry by Method 2320B	WG2281089	1	05/06/24 11:59	05/06/24 11:59	SEN	Allen, TX
Wet Chemistry by Method 300.0	WG2277987	1	05/01/24 15:21	05/01/24 15:21	SMC	Allen, TX
Wet Chemistry by Method 300.0	WG2277987	100	05/01/24 16:33	05/01/24 16:33	SMC	Allen, TX
Wet Chemistry by Method 300.0	WG2277987	2	05/01/24 16:51	05/01/24 16:51	SMC	Allen, TX
Wet Chemistry by Method 300.0	WG2277987	500	05/01/24 18:02	05/01/24 18:02	SMC	Allen, TX
Wet Chemistry by Method 3500Cr-B	WG2279561	1	05/03/24 11:59	05/03/24 11:59	KCM	Allen, TX
Wet Chemistry by Method 351.2	WG2281487	1	05/07/24 09:21	05/08/24 14:49	EIG	Allen, TX
Wet Chemistry by Method 353.2	WG2284079	1	05/10/24 14:25	05/10/24 14:25	EIG	Allen, TX
Wet Chemistry by Method 4500CN-E	WG2278800	1	05/02/24 10:00	05/02/24 16:22	KCM	Allen, TX
Wet Chemistry by Method 4500P-E	WG2279563	10	05/03/24 16:01	05/03/24 16:01	SMC	Allen, TX
Wet Chemistry by Method 4500-S2 D	WG2278766	1	05/02/24 10:38	05/02/24 10:38	JBS	Allen, TX
Wet Chemistry by Method 5210 B-2016	WG2277918	1	05/01/24 14:11	05/06/24 10:06	JBS	Allen, TX
Wet Chemistry by Method 5210 B-2016	WG2277921	1	05/01/24 15:16	05/06/24 11:22	JBS	Allen, TX
Wet Chemistry by Method 5220D	WG2281097	1	05/06/24 14:34	05/06/24 15:26	JBS	Allen, TX
Wet Chemistry by Method 5310C	WG2280896	1	05/06/24 13:12	05/06/24 13:12	SMC	Allen, TX
Wet Chemistry by Method 5540C	WG2278227	1	05/01/24 14:00	05/01/24 17:06	KCM	Allen, TX
Wet Chemistry by Method SM 4500-H+B	WG2279852	1	05/03/24 14:11	05/03/24 14:11	JBS	Allen, TX
Wet Chemistry by Method SM4500NH3H	WG2279932	1	05/04/24 13:56	05/04/24 13:56	KCM	Allen, TX
Metals (ICP) by Method 200.7	WG2280184	1	05/04/24 09:30	05/07/24 13:20	SKH	Allen, TX
Volatile Organic Compounds (GC/MS) by Method 624.1	WG2278424	1	05/02/24 15:41	05/02/24 15:41	ZST	Allen, TX
Pesticides (GC) by Method EPA 608.3	WG2280140	1	05/04/24 15:07	05/05/24 23:12	RDH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method EPA-608.3	WG2280140	1	05/04/24 15:07	05/05/24 23:12	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG2278666	1	05/06/24 12:11	05/07/24 21:52	XLY	Allen, TX
Subcontracted Analyses	WG2278328	1	05/15/24 00:00	05/15/24 00:00	JWW	Green Bay, WI 54302

1 Cp

2 Tc

3 Ss

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8 Al

9 Sc

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Lori A Vahrenkamp  
Project Manager

## Project Narrative

L1731230 -01 contains subout data that is included after the chain of custody.

## Sample Delivery Group (SDG) Narrative

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
<a href="#">L1731230-01</a>	<a href="#">RO DISCHARGE</a>	3500Cr-B, 1664A

An aliquot for analysis was taken from the original container received due to volume requirements of the laboratory's procedure. Rinsing of the original sample container for inclusion in the sample extraction was not performed.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
<a href="#">L1731230-01</a>	<a href="#">RO DISCHARGE</a>	EPA 608.3, EPA-608.3

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## RO DISCHARGE

Collected date/time: 04/30/24 08:15

## SAMPLE RESULTS - 01

L1731230

## Calculated Results

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chromium, Trivalent	<0.000710		0.000710	0.00300	1	05/07/2024 13:20	<a href="#">WG2280184</a>

## Gravimetric Analysis by Method 2540C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Total Dissolved Solids	8690			50.0	1	05/02/2024 16:02	<a href="#">WG2279100</a>
Total Dissolved Solids	8930			125	1	05/05/2024 12:57	<a href="#">WG2280611</a>

## Gravimetric Analysis by Method 2540D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Suspended Solids	8.13			3.13	1	05/06/2024 10:18	<a href="#">WG2280949</a>

## Wet Chemistry by Method 1664A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Oil & Grease (Hexane Extr)	<0.407		0.407	5.81	1	05/07/2024 10:54	<a href="#">WG2281059</a>

## Wet Chemistry by Method 2120B

Analyte	Result units	Qualifier	MDL units	RDL units	Dilution	Analysis date / time	Batch
Color	10.0			5.00	1	05/01/2024 16:10	<a href="#">WG2278320</a>

## Sample Narrative:

L1731230-01 WG2278320: 8.0

## Wet Chemistry by Method 2320B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	2450		20.0	20.0	1	05/06/2024 11:59	<a href="#">WG2281089</a>
Alkalinity, Bicarbonate	2450		20.0	20.0	1	05/06/2024 11:59	<a href="#">WG2281089</a>
Alkalinity, Carbonate	<20.0		20.0	20.0	1	05/06/2024 11:59	<a href="#">WG2281089</a>
Alkalinity, Hydroxide	<20.0		20.0	20.0	1	05/06/2024 11:59	<a href="#">WG2281089</a>
Phenolphthalein Alkalinity	<20.0		20.0	20.0	1	05/06/2024 11:59	<a href="#">WG2281089</a>

## Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bromide	17.6		0.153	0.800	2	05/01/2024 16:51	<a href="#">WG2277987</a>
Chloride	1370		27.0	400	500	05/01/2024 18:02	<a href="#">WG2277987</a>
Fluoride	5.64		0.397	1.00	2	05/01/2024 16:51	<a href="#">WG2277987</a>
Nitrate	1.27		0.207	0.500	1	05/01/2024 15:21	<a href="#">WG2277987</a>
Sulfate	1090		39.3	70.0	100	05/01/2024 16:33	<a href="#">WG2277987</a>

## Wet Chemistry by Method 3500Cr-B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chromium, Hexavalent	<0.00200		0.00200	0.00300	1	05/03/2024 11:59	<a href="#">WG2279561</a>

## Wet Chemistry by Method 351.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
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## RO DISCHARGE

Collected date/time: 04/30/24 08:15

## SAMPLE RESULTS - 01

L1731230

## Wet Chemistry by Method 351.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	0.649		0.140	0.250	1	05/08/2024 14:49	<a href="#">WG2281487</a>

## Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	<0.0300		0.0300	0.0500	1	05/10/2024 14:25	<a href="#">WG2284079</a>

## Wet Chemistry by Method 4500CN-E

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Cyanide	<0.00430		0.00430	0.0100	1	05/02/2024 16:22	<a href="#">WG2278800</a>

## Wet Chemistry by Method 4500P-E

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Phosphorus, Total	2.45		0.152	0.500	10	05/03/2024 16:01	<a href="#">WG2279563</a>

## Wet Chemistry by Method 4500-S2 D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	<0.0230		0.0230	0.100	1	05/02/2024 10:38	<a href="#">WG2278766</a>

## Wet Chemistry by Method 5210 B-2016

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
BOD	<1.00		1.00	1	1	05/06/2024 10:06	<a href="#">WG2277918</a>
CBOD	<1.00		1.00	1	1	05/06/2024 11:22	<a href="#">WG2277921</a>

## Wet Chemistry by Method 5220D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
COD	138		16.1	35.0	1	05/06/2024 15:26	<a href="#">WG2281097</a>

## Wet Chemistry by Method 5310C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	6.39		0.270	0.700	1	05/06/2024 13:12	<a href="#">WG2280896</a>

## Wet Chemistry by Method 5540C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
MBAS	<0.360	<a href="#">J5</a>	0.360	0.500	1	05/01/2024 17:06	<a href="#">WG2278227</a>

## Wet Chemistry by Method SM 4500-H+B

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.31	<a href="#">T8</a>	1	05/03/2024 14:11	<a href="#">WG2279852</a>

## Sample Narrative:

L1731230-01 WG2279852: 8.31 at 20.7C

## RO DISCHARGE

Collected date/time: 04/30/24 08:15

## SAMPLE RESULTS - 01

L1731230

Wet Chemistry by Method SM4500NH3H

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	0.639		0.0280	0.100	1	05/04/2024 13:56	WG2279932

## Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	0.0412	J	0.0353	0.500	1	05/07/2024 13:20	WG2280184
Antimony	<0.00242		0.00242	0.0250	1	05/07/2024 13:20	WG2280184
Arsenic	<0.00418		0.00418	0.0200	1	05/07/2024 13:20	WG2280184
Barium	0.190		0.000490	0.0100	1	05/07/2024 13:20	WG2280184
Beryllium	<0.000180		0.000180	0.00100	1	05/07/2024 13:20	WG2280184
Boron	2.15		0.0186	0.100	1	05/07/2024 13:20	WG2280184
Cadmium	0.000491	J	0.000350	0.00500	1	05/07/2024 13:20	WG2280184
Chromium	<0.000710		0.000710	0.00700	1	05/07/2024 13:20	WG2280184
Cobalt	<0.000680		0.000680	0.00250	1	05/07/2024 13:20	WG2280184
Copper	<0.00364		0.00364	0.0200	1	05/07/2024 13:20	WG2280184
Iron	0.157	J	0.0303	0.500	1	05/07/2024 13:20	WG2280184
Lead	0.0116		0.00312	0.0100	1	05/07/2024 13:20	WG2280184
Magnesium	119		0.0434	1.00	1	05/07/2024 13:20	WG2280184
Manganese	0.393		0.00557	0.0500	1	05/07/2024 13:20	WG2280184
Molybdenum	0.132		0.00760	0.0300	1	05/07/2024 13:20	WG2280184
Nickel	0.0141		0.00358	0.0100	1	05/07/2024 13:20	WG2280184
Selenium	<0.00500		0.00500	0.0200	1	05/07/2024 13:20	WG2280184
Silver	<0.000990		0.000990	0.00500	1	05/07/2024 13:20	WG2280184
Thallium	<0.00775		0.00775	0.0200	1	05/07/2024 13:20	WG2280184
Tin	<0.00240		0.00240	0.0250	1	05/07/2024 13:20	WG2280184
Titanium	0.0109	J	0.00835	0.100	1	05/07/2024 13:20	WG2280184
Zinc	0.0295		0.0106	0.0250	1	05/07/2024 13:20	WG2280184

## Volatile Organic Compounds (GC/MS) by Method 624.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	<0.00335		0.00335	0.00500	1	05/02/2024 15:41	WG2278424
1,1,2,2-Tetrachloroethane	<0.000596		0.000596	0.00500	1	05/02/2024 15:41	WG2278424
1,1,2-Trichloroethane	<0.00145		0.00145	0.00500	1	05/02/2024 15:41	WG2278424
1,1-Dichloroethane	<0.00292		0.00292	0.00500	1	05/02/2024 15:41	WG2278424
1,1-Dichloroethene	<0.00367		0.00367	0.00500	1	05/02/2024 15:41	WG2278424
1,2-Dichlorobenzene	<0.00172		0.00172	0.00200	1	05/02/2024 15:41	WG2278424
2-Dichloroethane	<0.00195		0.00195	0.00500	1	05/02/2024 15:41	WG2278424
2-Dichloropropane	<0.000804		0.000804	0.00200	1	05/02/2024 15:41	WG2278424
3-Dichlorobenzene	<0.00419		0.00419	0.00500	1	05/02/2024 15:41	WG2278424
4-Dichlorobenzene	<0.00173		0.00173	0.00200	1	05/02/2024 15:41	WG2278424
1-Chloroethyl vinyl ether	<0.00652		0.00652	0.0100	1	05/02/2024 15:41	WG2278424
croton	<0.00544		0.00544	0.0100	1	05/02/2024 15:41	WG2278424
acrylonitrile	<0.00709		0.00709	0.0100	1	05/02/2024 15:41	WG2278424
benzene	<0.00207		0.00207	0.00500	1	05/02/2024 15:41	WG2278424
bromodichloromethane	<0.00179		0.00179	0.00200	1	05/02/2024 15:41	WG2278424
bromoform	<0.000960		0.000960	0.0100	1	05/02/2024 15:41	WG2278424
bromomethane	<0.00347		0.00347	0.00500	1	05/02/2024 15:41	WG2278424
carbon tetrachloride	<0.00159		0.00159	0.00200	1	05/02/2024 15:41	WG2278424
chlorobenzene	<0.00276		0.00276	0.0100	1	05/02/2024 15:41	WG2278424
chloroethane	<0.00296		0.00296	0.00500	1	05/02/2024 15:41	WG2278424
chloroform	<0.00212		0.00212	0.00500	1	05/02/2024 15:41	WG2278424
chloromethane	<0.00361		0.00361	0.00500	1	05/02/2024 15:41	WG2278424
1,2-Dichloroethene	<0.00113		0.00113	0.00500	1	05/02/2024 15:41	WG2278424
1,3-Dichloropropene	<0.00492		0.00492	0.0100	1	05/02/2024 15:41	WG2278424

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1731230

DATE/TIME:

05/16/24 16:02

PAGE:

7 of 70



## RO DISCHARGE

Collected date/time: 04/30/24 08:15

## SAMPLE RESULTS - 01

L1731230

## Volatile Organic Compounds (GC/MS) by Method 624.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dibromochloromethane	<0.00327		0.00327	0.00500	1	05/02/2024 15:41	WG2278424
Ethylbenzene	<0.000401		0.000401	0.00200	1	05/02/2024 15:41	WG2278424
Methylene Chloride	<0.0117		0.0117	0.0200	1	05/02/2024 15:41	WG2278424
Tetrachloroethene	<0.00486		0.00486	0.0100	1	05/02/2024 15:41	WG2278424
Toluene	<0.00219		0.00219	0.00500	1	05/02/2024 15:41	WG2278424
Total 1,3-Dichloropropene	<0.00372		0.00372	0.0100	1	05/02/2024 15:41	WG2278424
trans-1,2-Dichloroethene	<0.00501		0.00501	0.0100	1	05/02/2024 15:41	WG2278424
trans-1,3-Dichloropropene	<0.00460		0.00460	0.00500	1	05/02/2024 15:41	WG2278424
Trichloroethene	<0.00262		0.00262	0.00500	1	05/02/2024 15:41	WG2278424
Vinyl chloride	<0.00466		0.00466	0.00500	1	05/02/2024 15:41	WG2278424
(S) 1,2-Dichloroethane-d4	101			70.0-130		05/02/2024 15:41	WG2278424
(S) 4-Bromofluorobenzene	102			70.0-130		05/02/2024 15:41	WG2278424
(S) Toluene-d8	100			70.0-130		05/02/2024 15:41	WG2278424

## Pesticides (GC) by Method EPA 608.3

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Aldrin	<0.0000198		0.0000198	0.0000500	1	05/05/2024 23:12	WG2280140
Alpha BHC	<0.0000172		0.0000172	0.0000500	1	05/05/2024 23:12	WG2280140
Beta BHC	<0.0000208		0.0000208	0.0000500	1	05/05/2024 23:12	WG2280140
Delta BHC	<0.0000150		0.0000150	0.0000500	1	05/05/2024 23:12	WG2280140
Gamma BHC	<0.0000209		0.0000209	0.0000500	1	05/05/2024 23:12	WG2280140
Chlordane	<0.0000198		0.0000198	0.00500	1	05/05/2024 23:12	WG2280140
4,4-DDD	<0.0000177		0.0000177	0.0000500	1	05/05/2024 23:12	WG2280140
4,4-DDE	<0.0000154		0.0000154	0.0000500	1	05/05/2024 23:12	WG2280140
4,4-DDT	<0.0000198		0.0000198	0.0000500	1	05/05/2024 23:12	WG2280140
Dieldrin	<0.0000162		0.0000162	0.0000500	1	05/05/2024 23:12	WG2280140
Endosulfan I	<0.0000160		0.0000160	0.0000500	1	05/05/2024 23:12	WG2280140
Endosulfan II	<0.0000164		0.0000164	0.0000500	1	05/05/2024 23:12	WG2280140
Endosulfan sulfate	<0.0000217		0.0000217	0.0000500	1	05/05/2024 23:12	WG2280140
Endrin	<0.0000161		0.0000161	0.0000500	1	05/05/2024 23:12	WG2280140
Endrin aldehyde	<0.0000237		0.0000237	0.0000500	1	05/05/2024 23:12	WG2280140
Endrin ketone	<0.0000219		0.0000219	0.0000500	1	05/05/2024 23:12	WG2280140
Heptachlor	<0.0000148		0.0000148	0.0000500	1	05/05/2024 23:12	WG2280140
Heptachlor epoxide	<0.0000183		0.0000183	0.0000500	1	05/05/2024 23:12	WG2280140
Hexachlorobenzene	<0.0000176		0.0000176	0.0000500	1	05/05/2024 23:12	WG2280140
Methoxychlor	<0.0000193		0.0000193	0.0000500	1	05/05/2024 23:12	WG2280140
Toxaphene	<0.000168		0.000168	0.000500	1	05/05/2024 23:12	WG2280140
gamma-Chlordane	<0.0000137		0.0000137	0.0000500	1	05/05/2024 23:12	WG2280140
alpha-Chlordane	<0.0000149		0.0000149	0.0000500	1	05/05/2024 23:12	WG2280140
(S) Decachlorobiphenyl	57.7			10.0-144		05/05/2024 23:12	WG2280140
(S) Tetrachloro-m-xylene	67.2			10.0-135		05/05/2024 23:12	WG2280140

## Polychlorinated Biphenyls (GC) by Method EPA-608.3

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
PCB 1016	<0.000270		0.000270	0.000500	1	05/05/2024 23:12	WG2280140
PCB 1221	<0.000270		0.000270	0.000500	1	05/05/2024 23:12	WG2280140
PCB 1232	<0.000270		0.000270	0.000500	1	05/05/2024 23:12	WG2280140
PCB 1242	<0.000270		0.000270	0.000500	1	05/05/2024 23:12	WG2280140
PCB 1248	<0.000173		0.000173	0.000500	1	05/05/2024 23:12	WG2280140
PCB 1254	<0.000173		0.000173	0.000500	1	05/05/2024 23:12	WG2280140
PCB 1260	<0.000173		0.000173	0.000500	1	05/05/2024 23:12	WG2280140
Total PCBs	<0.000173		0.000173	0.000500	1	05/05/2024 23:12	WG2280140
(S) Decachlorobiphenyl	75.6			10.0-144		05/05/2024 23:12	WG2280140



## RO DISCHARGE

## SAMPLE RESULTS - 01

Collected date/time: 04/30/24 08:15

L1731230

## Polychlorinated Biphenyls (GC) by Method EPA-608.3

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) Tetrachloro-m-xylene	88.4			10.0-135		05/05/2024 23:12	WG2280140

## Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4,5-Tetrachlorobenzene	<0.00132		0.00132	0.00250	1	05/07/2024 21:52	WG2278666
1,2,4-Trichlorobenzene	<0.00159		0.00159	0.00250	1	05/07/2024 21:52	WG2278666
1,2-Dichlorobenzene	<0.00168		0.00168	0.00250	1	05/07/2024 21:52	WG2278666
1,3-Dichlorobenzene	<0.00170		0.00170	0.00250	1	05/07/2024 21:52	WG2278666
1,4-Dichlorobenzene	<0.00184		0.00184	0.00250	1	05/07/2024 21:52	WG2278666
2,2-Oxybis(1-Chloropropane)	<0.00116		0.00116	0.00250	1	05/07/2024 21:52	WG2278666
2,4,5-Trichlorophenol	<0.00193		0.00193	0.00250	1	05/07/2024 21:52	WG2278666
2,4,6-Trichlorophenol	<0.00179		0.00179	0.00250	1	05/07/2024 21:52	WG2278666
2,4-Dichlorophenol	<0.000820		0.000820	0.00250	1	05/07/2024 21:52	WG2278666
2,4-Dimethylphenol	<0.00142		0.00142	0.00500	1	05/07/2024 21:52	WG2278666
2,4-Dinitrophenol	<0.00115		0.00115	0.00500	1	05/07/2024 21:52	WG2278666
2,4-Dinitrotoluene	<0.00265		0.00265	0.00500	1	05/07/2024 21:52	WG2278666
2,6-Dichlorophenol	<0.00107		0.00107	0.00250	1	05/07/2024 21:52	WG2278666
2,6-Dinitrotoluene	<0.00181		0.00181	0.00500	1	05/07/2024 21:52	WG2278666
2-Chloronaphthalene	<0.00143		0.00143	0.00250	1	05/07/2024 21:52	WG2278666
2-Chlorophenol	<0.000820		0.000820	0.00250	1	05/07/2024 21:52	WG2278666
2-Methylphenol	<0.000760		0.000760	0.00500	1	05/07/2024 21:52	WG2278666
2-Nitrophenol	<0.00169		0.00169	0.00250	1	05/07/2024 21:52	WG2278666
3&4-Methyl Phenol	<0.000767		0.000767	0.00250	1	05/07/2024 21:52	WG2278666
3,3-Dichlorobenzidine	<0.00265		0.00265	0.00500	1	05/07/2024 21:52	WG2278666
4,6-Dinitro-2-methylphenol	<0.00150		0.00150	0.00500	1	05/07/2024 21:52	WG2278666
4-Bromophenyl-phenylether	<0.00104		0.00104	0.00250	1	05/07/2024 21:52	WG2278666
4-Chloro-3-methylphenol	<0.000865		0.000865	0.00250	1	05/07/2024 21:52	WG2278666
4-Chlorophenyl-phenylether	<0.00140		0.00140	0.00250	1	05/07/2024 21:52	WG2278666
4-Nitrophenol	<0.00164		0.00164	0.00500	1	05/07/2024 21:52	WG2278666
Acenaphthene	<0.00134		0.00134	0.00250	1	05/07/2024 21:52	WG2278666
Acenaphthylene	<0.00134		0.00134	0.00250	1	05/07/2024 21:52	WG2278666
Acetophenone	<0.000788		0.000788	0.00250	1	05/07/2024 21:52	WG2278666
Alpha-Terpineol	<0.000696		0.000696	0.00250	1	05/07/2024 21:52	WG2278666
Aniline	<0.000536		0.000536	0.00250	1	05/07/2024 21:52	WG2278666
Anthracene	<0.00111		0.00111	0.00250	1	05/07/2024 21:52	WG2278666
Atrazine	<0.00167		0.00167	0.00250	1	05/07/2024 21:52	WG2278666
Ben-zidine	<0.00311		0.00311	0.0100	1	05/07/2024 21:52	WG2278666
Benzo(a)anthracene	<0.000933		0.000933	0.00250	1	05/07/2024 21:52	WG2278666
Benzo(a)pyrene	<0.000941		0.000941	0.00250	1	05/07/2024 21:52	WG2278666
Benzo(b)fluoranthene	<0.00102		0.00102	0.00250	1	05/07/2024 21:52	WG2278666
Benzo(g,h,i)perylene	<0.00101		0.00101	0.00250	1	05/07/2024 21:52	WG2278666
Benzo(k)fluoranthene	<0.000934		0.000934	0.00250	1	05/07/2024 21:52	WG2278666
Benzoic acid	0.0132		0.00657	0.0100	1	05/07/2024 21:52	WG2278666
Benzybutyl phthalate	<0.00143		0.00143	0.00250	1	05/07/2024 21:52	WG2278666
Bis(2-chloroethoxy)methane	<0.000991		0.000991	0.00250	1	05/07/2024 21:52	WG2278666
Bis(2-chloroethyl)ether	<0.00101		0.00101	0.00250	1	05/07/2024 21:52	WG2278666
Bis(2-chloroisopropyl)ether	<0.00116		0.00116	0.00250	1	05/07/2024 21:52	WG2278666
Bis(2-Ethylhexyl)phthalate	<0.00318		0.00318	0.00500	1	05/07/2024 21:52	WG2278666
Carbazole	<0.00106		0.00106	0.00250	1	05/07/2024 21:52	WG2278666
Chrysene	<0.00102		0.00102	0.00250	1	05/07/2024 21:52	WG2278666
Di-n-butyl phthalate	<0.00120		0.00120	0.00250	1	05/07/2024 21:52	WG2278666
Di-n-octyl phthalate	<0.00174		0.00174	0.00250	1	05/07/2024 21:52	WG2278666
Dibenz(a,h)anthracene	<0.00110		0.00110	0.00250	1	05/07/2024 21:52	WG2278666
Dibenzofuran	<0.00120		0.00120	0.00250	1	05/07/2024 21:52	WG2278666
Diethyl phthalate	<0.000915		0.000915	0.00250	1	05/07/2024 21:52	WG2278666

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1731230

DATE/TIME:

05/16/24 16:02

PAGE:

9 of 70

## RO DISCHARGE

## SAMPLE RESULTS - 01

Collected date/time: 04/30/24 08:15

L1731230

## Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dimethyl phthalate	<0.000878		0.000878	0.00250	1	05/07/2024 21:52	WG2278666
Fluoranthene	<0.00114		0.00114	0.00250	1	05/07/2024 21:52	WG2278666
Fluorene	<0.00131		0.00131	0.00250	1	05/07/2024 21:52	WG2278666
Hexachloro-1,3-butadiene	<0.00176		0.00176	0.00250	1	05/07/2024 21:52	WG2278666
Hexachlorobenzene	<0.000972		0.000972	0.00250	1	05/07/2024 21:52	WG2278666
Hexachlorocyclopentadiene	<0.00117		0.00117	0.0100	1	05/07/2024 21:52	WG2278666
Hexachloroethane	<0.00188		0.00188	0.00250	1	05/07/2024 21:52	WG2278666
1,2-Diphenylhydrazine	<0.00124	N2	0.00124	0.00250	1	05/07/2024 21:52	WG2278666
Indeno(1,2,3-cd)pyrene	<0.000984		0.000984	0.00250	1	05/07/2024 21:52	WG2278666
Isophorone	<0.00183		0.00183	0.00250	1	05/07/2024 21:52	WG2278666
n-Decane	<0.00158		0.00158	0.00250	1	05/07/2024 21:52	WG2278666
n-Nitrosodi-n-butylamine	<0.000735		0.000735	0.00250	1	05/07/2024 21:52	WG2278666
n-Nitrosodi-n-propylamine	<0.00107		0.00107	0.00250	1	05/07/2024 21:52	WG2278666
n-Nitrosodiethylamine	<0.000925		0.000925	0.00250	1	05/07/2024 21:52	WG2278666
n-Nitrosodimethylamine	<0.000651		0.000651	0.00250	1	05/07/2024 21:52	WG2278666
n-Nitrosodiphenylamine	<0.000829		0.000829	0.00250	1	05/07/2024 21:52	WG2278666
n-Octadecane	<0.00128		0.00128	0.00250	1	05/07/2024 21:52	WG2278666
Naphthalene	<0.00200		0.00200	0.00250	1	05/07/2024 21:52	WG2278666
Nitrobenzene	<0.00124		0.00124	0.00250	1	05/07/2024 21:52	WG2278666
Nonylphenol	<0.00286		0.00286	0.00500	1	05/07/2024 21:52	WG2278666
Pentachlorobenzene	<0.00134		0.00134	0.00250	1	05/07/2024 21:52	WG2278666
Pentachlorophenol	<0.00210		0.00210	0.00500	1	05/07/2024 21:52	WG2278666
Phenanthrene	<0.00113		0.00113	0.00250	1	05/07/2024 21:52	WG2278666
Phenol	<0.000967		0.000967	0.00250	1	05/07/2024 21:52	WG2278666
Pyrene	<0.00115		0.00115	0.00250	1	05/07/2024 21:52	WG2278666
Pyridine	<0.00117		0.00117	0.00250	1	05/07/2024 21:52	WG2278666
Total Cresols	<0.00153		0.00153	0.00750	1	05/07/2024 21:52	WG2278666
(S) 2,4,6-Tribromophenol	46.2			29.0-132		05/07/2024 21:52	WG2278666
(S) 2-Fluorobiphenyl	74.2			26.0-102		05/07/2024 21:52	WG2278666
(S) 2-Fluorophenol	31.8			10.0-66.0		05/07/2024 21:52	WG2278666
(S) Nitrobenzene-d5	79.8			15.0-106		05/07/2024 21:52	WG2278666
(S) p-Terphenyl-d14	65.4			10.0-120		05/07/2024 21:52	WG2278666
(S) Phenol-D6	23.5			10.0-54.0		05/07/2024 21:52	WG2278666

Cp

Tc

3 Ss

4 Cn

5 Sr

12 Qc

7 Gl

8 Al

13 Sc



## Method Blank (MB)

(MB) R4065501-1 05/02/24 16:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Total Dissolved Solids	<25.0		25.0	25.0

## L1731230-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1731230-01 05/02/24 16:02 • (DUP) R4065501-3 05/02/24 16:02

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Dissolved Solids	8690	9040	1	3.95		10

## L1731302-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1731302-01 05/02/24 16:02 • (DUP) R4065501-4 05/02/24 16:02

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Dissolved Solids	5290	5440	1	2.80		10

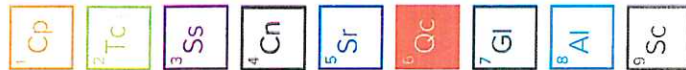
## Laboratory Control Sample (LCS)

(LCS) R4065501-2 05/02/24 16:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Dissolved Solids	2410	2510	104	85.0-115	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230DATE/TIME:  
05/16/24 16:02PAGE:  
11 of 70



WG2280611

Gravimetric Analysis by Method 2540C

QUALITY CONTROL SUMMARY

L1731230-01

Method Blank (MB)

(MB) R4066127-1 05/05/24 12:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Total Dissolved Solids	<25.0	25.0	25.0	25.0

L1731230-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1731230-01 05/05/24 12:57 • (DUP) R4066127-3 05/05/24 12:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Dissolved Solids	8930	8160	1	9.01		10

L1732414-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1732414-03 05/05/24 12:57 • (DUP) R4066127-4 05/05/24 12:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Dissolved Solids	512	492	1	3.98		10

Laboratory Control Sample (LCS)

(LCS) R4066127-2 05/05/24 12:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Dissolved Solids	2410	2540	105	85.0-115	

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1731230

DATE/TIME:

05/16/24 16:02

PAGE:

12 of 70



## Method Blank (MB)

(MB) R4066496-1 05/06/24 10:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	<2.50		2.50	2.50

## L1730932-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1730932-01 05/06/24 10:18 • (DUP) R4066496-3 05/06/24 10:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	700	705	1	0.712		10

## L1730983-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1730983-05 05/06/24 10:18 • (DUP) R4066496-4 05/06/24 10:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	13800	13500	1	2.20		10

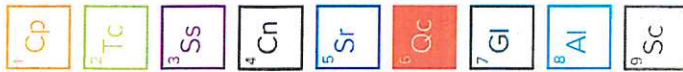
## Laboratory Control Sample (LCS)

(LCS) R4066496-2 05/06/24 10:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	928	963	104	85.0-115	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230DATE/TIME:  
05/16/24 16:02PAGE:  
13 of 70

WG2281059

Wet Chemistry by Method 1664A

QUALITY CONTROL SUMMARY

L1731230-01

Method Blank (MB)

(MB) R4066765-1 05/07/24 10:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Oil & Grease (Hexane Extr)	<0.350		0.350	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4066765-2 05/07/24 10:54 • (LCSD) R4066765-3 05/07/24 10:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Oil & Grease (Hexane Extr)	40.0	38.6	36.0	96.5	90.0	78.0-114			6.97	18

L1731230-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1731230-01 05/07/24 10:54 • (MS) R4066765-4 05/07/24 10:54

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Oil & Grease (Hexane Extr)	40.0	<0.350	41.2	103	1	78.0-114	

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230

DATE/TIME:  
05/16/24 16:02

PAGE:  
14 of 70



Method Blank (MB)

(MB) R4064570-1 05/01/24 16:10

Analyte	MB Result units	<u>MB Qualifier</u>	MB MDL units	MB RDL units
Color	<5.00		5.00	5.00

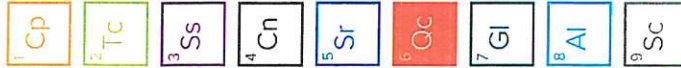
Sample Narrative:  
BLANK: 7.0

L1731230-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1731230-01 05/01/24 16:10 • (DUP) R4064570-2 05/01/24 16:10

Analyte	Original Result units	DUP Result units	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Color	10.0	10.0	1	0.000		20

Sample Narrative:  
OS: 8.0  
DUP: 8.0



ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230

DATE/TIME:  
05/16/24 16:02

PAGE:  
15 of 70

WG2281089

Wet Chemistry by Method 2320B

QUALITY CONTROL SUMMARY

L1731230-01

Method Blank (MB)

(MB) R4066253-1 05/06/24 11:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	<20.0		20.0	20.0
Alkalinity,Bicarbonate	<20.0		20.0	20.0
Alkalinity,Carbonate	<20.0		20.0	20.0
Alkalinity,Hydroxide	<20.0		20.0	20.0
Phenolphthalein Alkalinity	<20.0		20.0	20.0

L1731251-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1731251-01 05/06/24 11:59 • (DUP) R4066253-3 05/06/24 11:59

Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
mg/l	mg/l	%	%		%
Alkalinity	110	103	1	7.06	20

Laboratory Control Sample (LCS)

(LCS) R4066253-2 05/06/24 11:59

Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
mg/l	mg/l	%	%	
Alkalinity	250	242	96.8	90.0-110

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230

DATE/TIME:  
05/16/24 16:02

PAGE:  
16 of 70

## Method Blank (MB)

(MB) R4064765-1 05/01/24 14:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Bromide	<0.0763		0.0763	0.400
Chloride	0.0863	J	0.0541	0.800
Fluoride	<0.198		0.198	0.500
Nitrate	<0.207		0.207	0.500
Sulfate	<0.393		0.393	0.700

## Laboratory Control Sample (LCS)

(LCS) R4064765-2 05/01/24 15:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromide	5.00	5.01	100	90.0-110	
Chloride	5.00	4.93	98.6	90.0-110	
Fluoride	5.00	5.04	101	90.0-110	
Nitrate	5.00	4.74	94.7	90.0-110	
Sulfate	5.00	4.91	98.1	90.0-110	

## L1731251-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1731251-01 05/01/24 15:39 • (MS) R4064765-3 05/01/24 18:20 • (MSD) R4064765-4 05/01/24 18:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Bromide	5.00	1.52	5.00	5.11	69.5	71.9	1	90.0-110	J6	J6	2.34	20
Fluoride	5.00	0.213	5.01	5.11	96.0	98.0	1	90.0-110	J6	J6	1.99	20
Nitrate	5.00	0.886	4.72	4.81	76.6	78.6	1	90.0-110	J6	J6	2.05	20
Sulfate	5.00	10.1	13.2	13.2	61.5	61.9	1	90.0-110	J6	J6	0.167	20

## L1731251-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1731251-01 05/01/24 17:09 • (MS) R4064765-5 05/01/24 18:56 • (MSD) R4064765-6 05/01/24 19:14

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	5.00	17.5	28.0	27.9	211	208	2	90.0-110	J5	J5	0.542	20

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1731230

DATE/TIME:

05/16/24 16:02

PAGE:

17 of 70





WG2279561

Wet Chemistry by Method 3500Cr-B

## QUALITY CONTROL SUMMARY

L1731230-01

### Method Blank (MB)

(MB) R4065500-1 05/03/24 11:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chromium, Hexavalent	<0.00200	0.00200	0.00200	0.00300

### Laboratory Control Sample (LCS)

(LCS) R4065500-2 05/03/24 11:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chromium, Hexavalent	0.200	0.205	102	85.0-115	

### L1731030-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1731030-01 05/03/24 11:59 • (MS) R4065500-3 05/03/24 11:59 • (MSD) R4065500-4 05/03/24 11:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium, Hexavalent	0.200	<0.00200	0.194	0.195	97.2	97.6	1	10.0-120			0.448	20

#### Sample Narrative:

OS: Sample preserved in lab w/in 24hrs of collection.

### L1731251-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1731251-01 05/03/24 11:59 • (MS) R4065500-5 05/03/24 11:59 • (MSD) R4065500-6 05/03/24 11:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium, Hexavalent	0.200	<0.00200	0.195	0.198	97.6	98.9	1	10.0-120			1.33	20

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1731230

DATE/TIME:

05/16/24 16:02

PAGE:

18 of 70

## Method Blank (MB)

(MB) R4067272-1 05/08/24 14:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Kjeldahl Nitrogen, TKN	<0.140		0.140	0.250

## Laboratory Control Sample (LCS)

(LCS) R4067272-2 05/08/24 14:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Kjeldahl Nitrogen, TKN	4.00	4.06	102	90.0-110	

## L17322276-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L17322276-02 05/08/24 15:03 • (MS) R4067272-3 05/08/24 15:11 • (MSD) R4067272-4 05/08/24 15:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	4.00	1.32	5.36	5.35	101	101	1	90.0-110		0.187		20

## L17322280-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L17322280-02 05/08/24 15:06 • (MS) R4067272-5 05/08/24 15:13 • (MSD) R4067272-6 05/08/24 15:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	4.00	0.740	4.63	4.70	97.3	99.0	1	90.0-110		1.50		20

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230DATE/TIME:  
05/16/24 16:02PAGE:  
19 of 70

WG2284079

Wet Chemistry by Method 353.2

## QUALITY CONTROL SUMMARY

L1731230-01

### Method Blank (MB)

(MB) R4068637-1 05/10/24 14:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	<0.0300		0.0300	0.0500

### Laboratory Control Sample (LCS)

(LCS) R4068637-2 05/10/24 14:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.65	106	90.0-110	

### L1731230-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1731230-01 05/10/24 14:25 • (MS) R4068637-3 05/10/24 14:41 • (MSD) R4068637-4 05/10/24 14:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	<0.0300	2.63	2.62	105	105	1	90.0-110			0.381	20

### L1731301-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1731301-01 05/10/24 14:26 • (MS) R4068637-5 05/10/24 14:43 • (MSD) R4068637-6 05/10/24 14:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	0.0398	2.65	2.65	104	104	1	90.0-110			0.000	20

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230

DATE/TIME:  
05/16/24 16:02

PAGE:  
20 of 70



Method Blank (MB)

(MB) R4065098-1 05/02/24 16:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	<0.00430		0.00430	0.0100

Laboratory Control Sample (LCS)

(LCS) R4065098-2 05/02/24 16:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.0897	89.7	85.0-115	

L1731043-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1731043-02 05/02/24 16:22 • (MS) R4065098-3 05/02/24 16:22 • (MSD) R4065098-4 05/02/24 16:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	<0.00430	0.0926	0.0877	92.6	87.7	1	85.0-115			5.40	20



WG2279563

Wet Chemistry by Method 4500P-E

QUALITY CONTROL SUMMARY

L1731230-01

Method Blank (MB)

(MB) R4065622-1 05/03/24 16:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phosphorus, Total	<0.0152		0.0152	0.0500

Laboratory Control Sample (LCS)

(LCS) R4065622-2 05/03/24 16:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phosphorus, Total	0.500	0.494	98.9	80.0-120	

L1731251-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1731251-01 05/03/24 16:01 • (MS) R4065622-3 05/03/24 16:02 • (MSD) R4065622-4 05/03/24 16:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	MSD Result mg/l	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Phosphorus, Total	0.500	0.0676	0.574	101	0.567	1	80.0-120			1.18	20

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

## Method Blank (MB)

(MB) R4064931-1 05/02/24 10:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Sulfide	<0.0230		0.0230	0.100

## Laboratory Control Sample (LCS)

(LCS) R4064931-2 05/02/24 10:38

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfide	0.800	0.821	103	80.0-120	

## L1730968-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1730968-02 05/02/24 10:38 • (MS) R4064931-3 05/02/24 10:38 • (MSD) R4064931-4 05/02/24 10:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	MSD Result mg/l	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfide	0.800	<0.0230	0.487	60.8	0.539	67.3	1	80.0-120	J6	J6	10.1	20

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230DATE/TIME:  
05/16/24 16:02PAGE:  
23 of 70



WG2277918

Wet Chemistry by Method 5210 B-2016

## QUALITY CONTROL SUMMARY

L1731230-01

### Method Blank (MB)

(MB) R4066076-1 05/06/24 09:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
BOD	<0.200		0.200	0.200

### L1731032-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1731032-01 05/06/24 09:39 • (DUP) R4066076-3 05/06/24 10:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
BOD	5.48	5.39	1	1.66		20

### L1731219-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1731219-01 05/06/24 09:52 • (DUP) R4066076-4 05/06/24 10:20

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
BOD	4.62	5.02	1	8.3	1.9	20

### Laboratory Control Sample (LCS)

(LCS) R4066076-2 05/06/24 09:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
BOD	198	191	96.3	85-115	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230

DATE/TIME:  
05/16/24 16:02

PAGE:  
24 of 70



## Method Blank (MB)

(MB) R4066109-1 05/06/24 11:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
CBOD	<0.200		0.200	0.200

## L1731183-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1731183-01 05/06/24 11:11 • (DUP) R4066109-3 05/06/24 12:07

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
CBOD	1.49	1.59	1	6.49		20

## L1731302-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1731302-01 05/06/24 12:03 • (DUP) R4066109-4 05/06/24 12:08

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
CBOD	127	129	1	1.4		20

## Laboratory Control Sample (LCS)

(LCS) R4066109-2 05/06/24 11:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
CBOD	198	189	95.4	85-115	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230DATE/TIME:  
05/16/24 16:02PAGE:  
25 of 70

WG2281097

Wet Chemistry by Method 5220D

## QUALITY CONTROL SUMMARY

L1731230-01

### Method Blank (MB)

(MB) R4066251-1 05/06/24 15:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
COD	<16.1		16.1	35.0

### Laboratory Control Sample (LCS)

(LCS) R4066251-2 05/06/24 15:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
COD	500	507	101	80.0-120	

### L1730674-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1730674-01 05/06/24 15:26 • (MS) R4066251-3 05/06/24 15:26 • (MSD) R4066251-4 05/06/24 15:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
COD	500	79.6	571	569	98.3	97.9	1	80.0-120			0.377	20

### L1731277-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1731277-01 05/06/24 15:26 • (MS) R4066251-5 05/06/24 15:26 • (MSD) R4066251-6 05/06/24 15:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
COD	500	49.6	522	541	94.4	98.3	1	80.0-120			3.63	20

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230

DATE/TIME:  
05/16/24 16:02

PAGE:  
26 of 70



## Method Blank (MB)

(MB) R4066448-1 05/06/24 11:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TOC (Total Organic Carbon)	<0.270		0.270	0.700

## Laboratory Control Sample (LCS)

(LCS) R4066448-2 05/06/24 11:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	10.0	10.7	107	90.0-110	

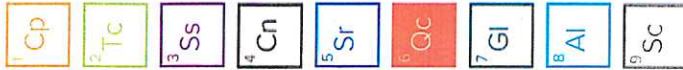
## L1731230-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1731230-01 05/06/24 13:12 • (MS) R4066448-3 05/06/24 13:42 • (MSD) R4066448-4 05/06/24 14:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	10.0	6.39	14.9	14.5	85.5	81.0	1	80.0-120		3.06		20

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230DATE/TIME:  
05/16/24 16:02PAGE:  
27 of 70

WG2278227

Wet Chemistry by Method 5540C

# QUALITY CONTROL SUMMARY

L1731230-01

## Method Blank (MB)

(MB) R4064617-1 05/01/24 17:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
MBAS	<0.360		0.360	0.500

## Laboratory Control Sample (LCS)

(LCS) R4064617-2 05/01/24 17:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
MBAS	1.00	1.17	117	80.0-120	

## L1731230-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1731230-01 05/01/24 17:06 • (MS) R4064617-3 05/01/24 17:06 • (MSD) R4064617-4 05/01/24 17:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
MBAS	1.00	<0.360	1.20	1.22	120	122	1	80.0-120		J5	1.05	20



ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230

DATE/TIME:  
05/16/24 16:02

PAGE:  
28 of 70

## L1731230-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1731230-01 05/03/24 14:11 • (DUP) R4065641-2 05/03/24 14:11

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
pH	su 8.31	su 8.32	1	% 0.120		% 20

## Sample Narrative:

OS: 8.31 at 20.7C

DUP: 8.32 at 20.4C

## L1731237-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1731237-04 05/03/24 14:11 • (DUP) R4065641-3 05/03/24 14:11

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
pH	su 8.90	su 8.87	1	% 0.338		% 20

## Sample Narrative:

OS: 8.9 at 20.1C

DUP: 8.87 at 20C

## Laboratory Control Sample (LCS)

(LCS) R4065641-1 05/03/24 14:11

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
pH	su 6.00	su 5.99	% 99.8	% 99.0-101	

## Sample Narrative:

LCS: 5.99 at 20.8C

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230DATE/TIME:  
05/16/24 16:02PAGE:  
29 of 70



WG2279932

Wet Chemistry by Method SM4500NH3H

## QUALITY CONTROL SUMMARY

L1731230-01

### Method Blank (MB)

(MB) R4065818-1 05/04/24 13:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	<0.0280	0.0280	0.0280	0.100

### Laboratory Control Sample (LCS)

(LCS) R4065818-2 05/04/24 13:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	5.00	4.93	98.6	80.0-120	

### L1730783-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1730783-01 05/04/24 13:36 • (MS) R4065818-3 05/04/24 13:28 • (MSD) R4065818-4 05/04/24 13:29

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	0.0959	5.79	5.82	114	114	1	80.0-120	0.517	0.517	20	20

### L1730785-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1730785-01 05/04/24 13:38 • (MS) R4065818-5 05/04/24 13:31 • (MSD) R4065818-6 05/04/24 13:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	0.440	5.69	5.68	105	105	1	80.0-120	0.176	0.176	20	20

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:  
L1731230

DATE/TIME:

05/16/24 16:02

PAGE:

30 of 70

## Method Blank (MB)

(MB) R4066733-1 05/07/24 12:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aluminum	<0.0353		0.0353	0.500
Antimony	<0.00242		0.00242	0.0250
Arsenic	<0.00418		0.00418	0.0200
Barium	<0.000490		0.000490	0.0100
Beryllium	<0.000180		0.000180	0.00100
Boron	<0.0186		0.0186	0.100
Cadmium	<0.000350		0.000350	0.00500
Chromium	<0.000710		0.000710	0.00700
Cobalt	<0.000680		0.000680	0.00250
Copper	<0.00364		0.00364	0.0200
Iron	<0.0303		0.0303	0.500
Lead	<0.00312		0.00312	0.0100
Magnesium	<0.0434		0.0434	1.00
Manganese	<0.00557		0.00557	0.0500
Molybdenum	<0.00760		0.00760	0.0300
Nickel	<0.00358		0.00358	0.0100
Selenium	<0.00500		0.00500	0.0200
Silver	<0.000990		0.000990	0.00500
Thallium	<0.00775		0.00775	0.0200
Tin	<0.00240		0.00240	0.0250
Titanium	<0.00835		0.00835	0.100
Zinc	<0.0106		0.0106	0.0250

## Laboratory Control Sample (LCS)

(LCS) R4066733-2 05/07/24 12:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum	10.0	9.80	98.0	85.0-115	
Antimony	1.00	0.955	95.5	85.0-115	
Arsenic	1.00	0.949	94.9	85.0-115	
Barium	1.00	0.950	95.0	85.0-115	
Beryllium	1.00	0.974	97.4	85.0-115	
Boron	1.00	0.945	94.5	85.0-115	
Cadmium	1.00	0.964	96.4	85.0-115	
Chromium	1.00	0.956	95.6	85.0-115	
Cobalt	1.00	0.976	97.6	85.0-115	
Copper	1.00	0.967	96.7	85.0-115	
Iron	10.0	9.89	98.9	85.0-115	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230DATE/TIME:  
05/16/24 16:02PAGE:  
31 of 70

WG2280184

Metals (ICP) by Method 200.7

# QUALITY CONTROL SUMMARY

L1731230-01

## Laboratory Control Sample (LCS)

(LCS) R4066733-2 05/07/24 12:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	1.00	0.983	98.3	85.0-115	
Magnesium	10.0	9.93	99.3	85.0-115	
Manganese	1.00	0.995	99.5	85.0-115	
Molybdenum	1.00	0.933	93.3	85.0-115	
Nickel	1.00	0.980	98.0	85.0-115	
Selenium	1.00	0.974	97.4	85.0-115	
Silver	0.500	0.469	93.9	85.0-115	
Thallium	1.00	0.856	85.6	85.0-115	
Tin	1.00	0.987	98.7	85.0-115	
Titanium	1.00	0.968	96.8	85.0-115	
Zinc	1.00	0.993	99.3	85.0-115	

## L1731957-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1731957-01 05/07/24 12:29 • (MS) R4066733-3 05/07/24 12:33 • (MSD) R4066733-4 05/07/24 12:37

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	10.0	19.6	30.0	30.0	104	105	1	70.0-130			0.233	20
Antimony	1.00	<0.00242	0.988	0.987	98.8	98.7	1	70.0-130			0.122	20
Arsenic	1.00	0.0631	1.31	1.30	124	124	1	70.0-130			0.307	20
Barium	1.00	0.0747	1.09	1.10	102	102	1	70.0-130			0.274	20
Beryllium	1.00	<0.000180	1.07	1.08	107	108	1	70.0-130			0.186	20
Boron	1.00	0.126	1.14	1.14	101	102	1	70.0-130			0.350	20
Cadmium	1.00	0.000674	0.975	0.973	97.5	97.2	1	70.0-130			0.267	20
Chromium	1.00	0.524	1.56	1.56	104	103	1	70.0-130			0.257	20
Cobalt	1.00	0.00937	1.04	1.04	103	103	1	70.0-130			0.0962	20
Copper	1.00	2.49	3.58	3.60	110	111	1	70.0-130			0.446	20
Iron	10.0	12.9	23.6	23.6	107	107	1	70.0-130			0.170	20
Lead	1.00	0.0119	0.958	0.956	94.6	94.4	1	70.0-130			0.157	20
Magnesium	10.0	16.0	26.1	26.2	102	102	1	70.0-130			0.268	20
Manganese	1.00	1.52	2.60	2.59	108	108	1	70.0-130			0.231	20
Molybdenum	1.00	0.0156	1.05	1.03	104	102	1	70.0-130			1.73	20
Nickel	1.00	0.389	1.44	1.44	105	105	1	70.0-130			0.278	20
Selenium	1.00	0.175	1.71	1.71	153	153	1	70.0-130	J5	J5	0.117	20
Silver	0.500	<0.000990	0.463	0.464	92.5	92.7	1	70.0-130			0.173	20
Thallium	1.00	0.0144	0.821	0.826	80.6	81.2	1	70.0-130			0.619	20
Tin	1.00	0.0342	1.02	1.02	98.1	98.2	1	70.0-130			0.0985	20
Titanium	1.00	0.0269	1.07	1.07	104	105	1	70.0-130			0.373	20
Zinc	1.00	0.479	1.59	1.60	111	112	1	70.0-130			0.251	20

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230

DATE/TIME:  
05/16/24 16:02

PAGE:  
32 of 70



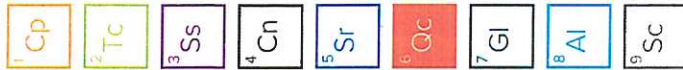
## L1731974-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1731974-01 05/07/24 12:41 • (MS) R4066733-5 05/07/24 12:45 • (MSD) R4066733-6 05/07/24 12:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	10.0	0.0835	9.83	9.77	97.5	96.8	1	70.0-130			0.643	20
Antimony	1.00	<0.00242	0.971	0.963	97.1	96.3	1	70.0-130			0.889	20
Arsenic	1.00	<0.00418	0.968	0.962	96.8	96.2	1	70.0-130			0.642	20
Barium	1.00	0.0144	0.964	0.954	95.0	93.9	1	70.0-130			1.11	20
Beryllium	1.00	<0.000180	0.969	0.964	96.9	96.4	1	70.0-130			0.466	20
Boron	1.00	0.476	1.41	1.41	93.8	93.8	1	70.0-130			0.000	20
Cadmium	1.00	<0.000350	0.973	0.967	97.3	96.7	1	70.0-130			0.629	20
Chromium	1.00	0.00127	0.952	0.948	95.1	94.7	1	70.0-130			0.474	20
Cobalt	1.00	<0.000680	0.973	0.969	97.3	96.9	1	70.0-130			0.453	20
Copper	1.00	0.0219	0.981	0.978	95.9	95.6	1	70.0-130			0.357	20
Iron	10.0	0.0757	9.91	9.84	98.3	97.6	1	70.0-130			0.740	20
Lead	1.00	0.00604	0.983	0.975	97.7	96.9	1	70.0-130			0.797	20
Magnesium	10.0	1.36	11.2	11.2	97.9	97.9	1	70.0-130			0.000	20
Manganese	1.00	0.0180	1.00	0.998	98.3	98.0	1	70.0-130			0.330	20
Molybdenum	1.00	<0.00760	0.941	0.940	94.1	94.0	1	70.0-130			0.0425	20
Nickel	1.00	<0.00358	0.975	0.970	97.5	97.0	1	70.0-130			0.525	20
Selenium	1.00	<0.00500	0.984	0.974	98.4	97.4	1	70.0-130			0.960	20
Silver	0.500	<0.000990	0.470	0.467	94.1	93.4	1	70.0-130			0.704	20
Thallium	1.00	<0.00775	0.850	0.845	85.0	84.5	1	70.0-130			0.661	20
Tin	1.00	<0.00240	0.989	0.985	98.9	98.5	1	70.0-130			0.395	20
Titanium	1.00	<0.00835	0.954	0.949	95.4	94.9	1	70.0-130			0.473	20
Zinc	1.00	0.0427	1.03	1.02	98.5	97.6	1	70.0-130			0.879	20

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230DATE/TIME:  
05/16/24 16:02PAGE:  
33 of 70

WG2278424

Volatile Organic Compounds (GC/MS) by Method 624.1

Method Blank (MB)

(MB) R4065451-2 05/02/24 10:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,1-Trichloroethane	<0.00335		0.00335	0.00500
1,1,2,2-Tetrachloroethane	<0.000596		0.000596	0.00500
1,1,2-Trichloroethane	<0.00145		0.00145	0.00500
1,1-Dichloroethane	<0.00292		0.00292	0.00500
1,1-Dichloroethene	<0.00367		0.00367	0.00500
1,2-Dichlorobenzene	<0.00172		0.00172	0.00200
1,2-Dichloroethane	<0.00195		0.00195	0.00500
1,2-Dichloropropane	<0.000804		0.000804	0.00200
1,3-Dichlorobenzene	<0.00419		0.00419	0.00500
1,4-Dichlorobenzene	<0.00173		0.00173	0.00200
2-Chloroethyl vinyl ether	<0.00652		0.00652	0.0100
Acrolein	<0.00544		0.00544	0.0100
Acrylonitrile	<0.00709		0.00709	0.0100
Benzene	<0.00207		0.00207	0.00500
Bromodichloromethane	<0.00179		0.00179	0.00200
Bromoform	<0.000960		0.000960	0.0100
Bromomethane	<0.00347		0.00347	0.00500
Carbon tetrachloride	<0.00159		0.00159	0.00200
Chlorobenzene	<0.00276		0.00276	0.0100
Chloroethane	<0.00296		0.00296	0.00500
Chloroform	<0.00212		0.00212	0.00500
Chloromethane	<0.00361		0.00361	0.00500
cis-1,2-Dichloroethene	<0.00113		0.00113	0.00500
cis-1,3-Dichloropropene	<0.00492		0.00492	0.0100
Dibromochloromethane	<0.00327		0.00327	0.00500
Ethylbenzene	<0.000401		0.000401	0.00200
Methylene Chloride	<0.0118		0.0118	0.0200
Tetrachloroethene	<0.00486		0.00486	0.0100
Toluene	<0.00219		0.00219	0.00500
Total 1,3-Dichloropropene	<0.00372		0.00372	0.0100
trans-1,2-Dichloroethene	<0.00501		0.00501	0.0100
trans-1,3-Dichloropropene	<0.00460		0.00460	0.00500
Trichloroethene	<0.00262		0.00262	0.00500
Vinyl chloride	<0.00466		0.00466	0.00500
(S) 1,2-Dichloroethane-d4	95.9			70.0-130
(S) 4-Bromofluorobenzene	101			70.0-130
(S) Toluene-d8	101			70.0-130

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1731230

DATE/TIME:

05/16/24 16:02

PAGE:

34 of 70

## QUALITY CONTROL SUMMARY

L1731230-01



Laboratory Control Sample (LCS)

(LCS) R4065451-1 05/02/24 09:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,1,1-Trichloroethane	0.0200	0.0210	105	70.0-130	
1,1,2,2-Tetrachloroethane	0.0200	0.0207	104	60.0-140	
1,1,2-Trichloroethane	0.0200	0.0222	111	70.0-130	
1,1-Dichloroethane	0.0200	0.0199	99.5	70.0-130	
1,1-Dichloroethene	0.0200	0.0204	102	50.0-150	
1,2-Dichlorobenzene	0.0200	0.0218	109	65.0-135	
1,2-Dichloroethane	0.0200	0.0208	104	70.0-130	
1,2-Dichloropropane	0.0200	0.0206	103	35.0-165	
1,3-Dichlorobenzene	0.0200	0.0222	111	70.0-130	
1,4-Dichlorobenzene	0.0200	0.0221	111	65.0-135	
2-Chloroethyl vinyl ether	0.100	0.109	109	1.00-225	
Acrolein	0.100	0.0882	88.2	64.0-139	
Acrylonitrile	0.100	0.0873	87.3	67.0-136	
Benzene	0.0200	0.0217	109	65.0-135	
Bromodichloromethane	0.0200	0.0213	106	65.0-135	
Bromoform	0.0200	0.0209	105	70.0-130	
Bromomethane	0.0200	0.0181	90.5	15.0-185	
Carbon tetrachloride	0.0200	0.0205	103	70.0-130	
Chlorobenzene	0.0200	0.0213	106	65.0-135	
Chloroethane	0.0200	0.0193	96.5	40.0-160	
Chloroform	0.0200	0.0206	103	70.0-135	
Chloromethane	0.0200	0.0162	81.0	1.00-205	
cis-1,2-Dichloroethene	0.0200	0.0215	108	70.0-130	
cis-1,3-Dichloropropene	0.0200	0.0207	104	25.0-175	
Dibromochloromethane	0.0200	0.0225	113	70.0-135	
Ethylbenzene	0.0200	0.0216	108	60.0-140	
Methylene Chloride	0.0200	0.0184	92.0	60.0-140	
Tetrachloroethene	0.0200	0.0225	113	70.0-130	
Toluene	0.0200	0.0216	108	70.0-130	
Total 1,3-Dichloropropene	0.0401	0.0389	97.0	70.0-130	
trans-1,2-Dichloroethene	0.0200	0.0194	97.0	70.0-130	
trans-1,3-Dichloropropene	0.0200	0.0182	91.0	50.0-150	
Trichloroethene	0.0200	0.0210	105	65.0-135	
Vinyl chloride	0.0200	0.0177	88.5	5.00-195	
(S) 1,2-Dichloroethane-d4			98.5	70.0-130	
(S) 4-Bromofluorobenzene			96.3	70.0-130	
(S) Toluene-d8			101	70.0-130	

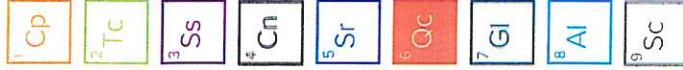
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Holiday Beach WSC

PROJECT:

SDG:  
L1731230

DATE/TIME:  
05/16/24 16:02

PAGE:  
35 of 70





WG2278424

Volatile Organic Compounds (GC/MS) by Method 624.1

QUALITY CONTROL SUMMARY

L1731230-01

L1729159-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1729159-05 05/02/24 12:49 • (MS) R4065451-3 05/02/24 13:14 • (MSD) R4065451-4 05/02/24 13:38

Analyte	Spike Amount ng/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,1,1-Trichloroethane	0.0200	<0.00335	0.0210	0.0201	105	101	1	52.0-162			4.38	36
1,1,2,2-Tetrachloroethane	0.0201	<0.000596	0.0195	0.0191	97.0	95.0	1	46.0-157			2.07	61
1,1,2-Trichloroethane	0.0200	<0.00145	0.0203	0.0201	102	101	1	52.0-150			0.990	45
1,1-Dichloroethane	0.0200	<0.00292	0.0189	0.0198	94.5	99.0	1	59.0-155			4.65	40
1,1-Dichloroethene	0.0200	<0.00367	0.0214	0.0216	107	108	1	1.00-234			0.930	32
1,2-Dichlorobenzene	0.0200	<0.00172	0.0194	0.0187	97.0	93.5	1	18.0-190			3.67	57
1,2-Dichloroethane	0.0200	<0.00195	0.0193	0.0193	96.5	96.5	1	49.0-155			0.000	49
1,2-Dichloropropane	0.0199	<0.000804	0.0193	0.0192	97.0	96.5	1	1.00-210			0.519	55
1,3-Dichlorobenzene	0.0199	<0.00419	0.0195	0.0185	98.0	93.0	1	59.0-156			5.26	43
1,4-Dichlorobenzene	0.0200	<0.00173	0.0188	0.0177	94.0	88.5	1	18.0-190			6.03	57
2-Chloroethyl vinyl ether	0.100	<0.00652	0.0332	0.0337	33.2	33.7	1	1.00-305			1.49	71
Acrolein	0.100	<0.00544	0.0903	0.0891	90.3	89.1	1	4.00-172			1.34	20
Acrylonitrile	0.100	<0.00709	0.0957	0.108	95.7	108	1	22.0-189			12.1	20
Benzene	0.0200	<0.00207	0.0208	0.0202	104	101	1	37.0-151			2.93	61
Bromodichloromethane	0.0199	<0.00179	0.0206	0.0202	104	102	1	35.0-155			1.96	56
Bromoform	0.0198	<0.000960	0.0194	0.0201	98.0	102	1	70.0-130			3.54	42
Bromomethane	0.0200	<0.00347	0.0161	0.0178	80.5	89.0	1	15.0-185			10.0	61
Carbon tetrachloride	0.0200	<0.00159	0.0213	0.0201	106	101	1	70.0-140			5.80	41
Chlorobenzene	0.0200	<0.00276	0.0204	0.0197	102	98.5	1	37.0-160			3.49	53
Chloroethane	0.0200	<0.00296	0.0220	0.0213	110	106	1	14.0-230			3.23	78
Chloroform	0.0198	<0.00212	0.0191	0.0203	96.5	103	1	51.0-138			6.09	54
Chloromethane	0.0200	<0.00361	0.0145	0.0140	72.5	70.0	1	1.00-273			3.51	20
cis-1,2-Dichloroethene	0.0200	0.0743	0.0941	0.0982	99.0	120	1	70.0-130			4.26	20
cis-1,3-Dichloropropene	0.0200	<0.00492	0.0160	0.0159	80.0	79.5	1	1.00-227			0.627	58
Dibromochloromethane	0.0198	<0.00327	0.0205	0.0206	104	104	1	53.0-149			0.487	50
Ethylbenzene	0.0200	<0.000401	0.0197	0.0200	98.5	100	1	37.0-162			1.51	63
Methylene Chloride	0.0204	<0.0118	0.0177	0.0187	86.8	91.7	1	1.00-221			5.49	28
Tetrachloroethene	0.0200	<0.00486	0.0207	0.0204	104	102	1	64.0-148			1.46	39
Toluene	0.0200	<0.00219	0.0203	0.0205	102	103	1	47.0-150			0.980	41
Total 1,3-Dichloropropene	0.0401	<0.00372	0.0311	0.0310	77.6	77.3	1	70.0-130			0.322	20
trans-1,2-Dichloroethene	0.0200	<0.00501	0.0203	0.0209	90.8	93.8	1	54.0-156			2.91	45
trans-1,3-Dichloropropene	0.0201	<0.00460	0.0151	0.0151	75.1	75.1	1	17.0-183			0.000	86
Trichloroethene	0.0200	0.0550	0.0769	0.0753	109	102	1	70.0-157			2.10	48
Vinyl chloride	0.0200	0.00744	0.0244	0.0260	84.8	92.8	1	1.00-251			6.35	66
(S) 1,2-Dichloroethane-d4					98.2	96.8		70.0-130				
(S) 4-Bromofluorobenzene					95.4	92.4		70.0-130				
(S) Toluene-d8					99.7	101		70.0-130				

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230

DATE/TIME:  
05/16/24 16:02

PAGE:  
36 of 70

## Method Blank (MB)

(MB) R4066085-1 05/05/24 22:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aldrin	<0.0000198		0.0000198	0.0000500
Alpha BHC	<0.0000172		0.0000172	0.0000500
Beta BHC	<0.0000208		0.0000208	0.0000500
Delta BHC	<0.0000150		0.0000150	0.0000500
Gamma BHC	<0.0000209		0.0000209	0.0000500
Chlordane	<0.0000198		0.0000198	0.00500
4,4-DDD	<0.0000177		0.0000177	0.0000500
4,4-DDE	<0.0000154		0.0000154	0.0000500
4,4-DDT	<0.0000198		0.0000198	0.0000500
Dieldrin	<0.0000162		0.0000162	0.0000500
Endosulfan I	<0.0000160		0.0000160	0.0000500
Endosulfan II	<0.0000164		0.0000164	0.0000500
Endosulfan sulfate	<0.0000217		0.0000217	0.0000500
Endrin	<0.0000161		0.0000161	0.0000500
Endrin aldehyde	<0.0000237		0.0000237	0.0000500
Endrin ketone	<0.0000219		0.0000219	0.0000500
Heptachlor	<0.0000148		0.0000148	0.0000500
Heptachlor epoxide	<0.0000183		0.0000183	0.0000500
Hexachlorobenzene	<0.0000176		0.0000176	0.0000500
Methoxychlor	<0.0000193		0.0000193	0.0000500
Toxaphene	<0.000168		0.000168	0.000500
gamma-Chlordane	<0.0000137		0.0000137	0.0000500
alpha-Chlordane	<0.0000149		0.0000149	0.0000500
(S) Decachlorobiphenyl	41.7			10.0-144
(S) Tetrachloro-m-xylene	58.2			10.0-135

## Laboratory Control Sample (LCS)

(LCS) R4066085-2 05/05/24 22:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aldrin	0.00100	0.000695	69.5	42.0-140	
Alpha BHC	0.00100	0.000768	76.8	37.0-140	
Beta BHC	0.00100	0.000765	76.5	17.0-147	
Delta BHC	0.00100	0.000735	73.5	19.0-140	
Gamma BHC	0.00100	0.000805	80.5	32.0-140	
4,4-DDD	0.00100	0.000771	77.1	31.0-141	
4,4-DDE	0.00100	0.000720	72.0	30.0-145	
4,4-DDT	0.00100	0.000736	73.6	25.0-160	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230DATE/TIME:  
05/16/24 16:02PAGE:  
37 of 70



WG2280140

Pesticides (GC) by Method EPA 608.3

## QUALITY CONTROL SUMMARY

L1731230-01

### Laboratory Control Sample (LCS)

(LCS) R4066085-2 05/05/24 22:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dieldrin	0.00100	0.000761	76.1	36.0-146	
Endosulfan I	0.00100	0.000703	70.3	45.0-153	
Endosulfan II	0.00100	0.000765	76.5	1.00-202	
Endosulfan sulfate	0.00100	0.000779	77.9	26.0-144	
Endrin	0.00100	0.000761	76.1	30.0-147	
Endrin aldehyde	0.00100	0.000641	64.1	56.0-128	
Endrin ketone	0.00100	0.000772	77.2	54.0-142	
Heptachlor	0.00100	0.000811	81.1	34.0-140	
Heptachlor epoxide	0.00100	0.000772	77.2	37.0-142	
Hexachlorobenzene	0.00100	0.000711	71.1	35.0-120	
Methoxychlor	0.00100	0.000793	79.3	44.0-160	
gamma-Chlordane	0.00100	0.000735	73.5	45.0-140	
alpha-Chlordane	0.00100	0.000728	72.8	45.0-140	
(S) Decachlorobiphenyl			35.9	10.0-144	
(S) Tetrachloro-m-xylene			66.0	10.0-135	

### L1731230-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1731230-01 05/05/24 23:12 • (MS) R4066085-3 05/05/24 23:21 • (MSD) R4066085-4 05/05/24 23:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.00100	<0.0000198	0.000717	0.000732	71.7	73.2	1	42.0-140			2.07	35
Alpha BHC	0.00100	<0.0000172	0.000757	0.000702	75.7	70.2	1	37.0-140			7.54	36
Beta BHC	0.00100	<0.0000208	0.000739	0.000754	73.9	75.4	1	17.0-147			2.01	44
Delta BHC	0.00100	<0.0000150	0.000718	0.000711	71.8	71.1	1	19.0-140			0.980	52
Gamma BHC	0.00100	<0.0000209	0.000792	0.000793	79.2	79.3	1	32.0-140			0.126	39
4,4-DDD	0.00100	<0.0000177	0.000775	0.000794	77.5	79.4	1	31.0-141			2.42	39
4,4-DDE	0.00100	<0.0000154	0.000739	0.000763	73.9	76.3	1	30.0-145			3.20	35
4,4-DDT	0.00100	<0.0000198	0.000779	0.000792	77.9	79.2	1	25.0-160			1.65	42
Dieldrin	0.00100	<0.0000162	0.000760	0.000774	76.0	77.4	1	36.0-146			1.83	49
Endosulfan I	0.00100	<0.0000160	0.000706	0.000630	70.6	63.0	1	45.0-153			11.4	28
Endosulfan II	0.00100	<0.0000164	0.000760	0.000779	76.0	77.9	1	1.00-202			2.47	53
Endosulfan sulfate	0.00100	<0.0000217	0.000779	0.000791	77.9	79.1	1	26.0-144			1.53	38
Endrin	0.00100	<0.0000161	0.000766	0.000681	76.6	68.1	1	30.0-147			11.7	48
Endrin aldehyde	0.00100	<0.0000237	0.000692	0.000659	69.2	65.9	1	56.0-128			4.89	20
Endrin ketone	0.00100	<0.0000219	0.000769	0.000787	76.9	78.7	1	54.0-142			2.31	20
Heptachlor	0.00100	<0.0000148	0.000837	0.000822	83.7	82.2	1	34.0-140			1.81	43
Heptachlor epoxide	0.00100	<0.0000183	0.000763	0.000766	76.3	76.6	1	37.0-142			0.392	26
Hexachlorobenzene	0.00100	<0.0000176	0.000693	0.000686	69.3	68.6	1	35.0-120			1.02	25

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1731230

DATE/TIME:

05/16/24 16:02

PAGE:

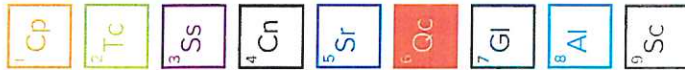
38 of 70



## L1731230-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1731230-01 05/05/24 23:12 • (MS) R4066085-3 05/05/24 23:21 • (MSD) R4066085-4 05/05/24 23:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methoxychlor	0.00100	<0.0000193	0.000823	0.000799	82.3	79.9	1	44.0-160				
gamma-Chlordane	0.00100	<0.0000137	0.000741	0.000756	74.1	75.6	1	45.0-140			2.96	22
alpha-Chlordane	0.00100	<0.0000149	0.000727	0.000736	72.7	73.6	1	45.0-140			2.00	35
(S) Decachlorobiphenyl					39.8	49.2		10.0-144			1.23	35
(S) Tetrachloro-m-xylene					65.5	64.0		10.0-135				

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230DATE/TIME:  
05/16/24 16:02PAGE:  
39 of 70

WG2280140

Polychlorinated Biphenyls (GC) by Method EPA-608.3

QUALITY CONTROL SUMMARY

L1731230-01

Method Blank (MB)

(MB) R4066085-1 05/05/24 22:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
PCB 1016	<0.000270		0.000270	0.000500
PCB 1221	<0.000270		0.000270	0.000500
PCB 1232	<0.000270		0.000270	0.000500
PCB 1242	<0.000270		0.000270	0.000500
PCB 1248	<0.000173		0.000173	0.000500
PCB 1254	<0.000173		0.000173	0.000500
PCB 1260	<0.000173		0.000173	0.000500
Total PCBs	<0.000173		0.000173	0.000500
(S) Decachlorobiphenyl	54.8			10.0-144
(S) Tetrachloro-m-xylene	76.3			10.0-135

Laboratory Control Sample (LCS)

(LCS) R4066085-5 05/05/24 23:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.00250	0.00176	70.4	50.0-140	
PCB 1260	0.00250	0.00134	53.6	8.00-140	
(S) Decachlorobiphenyl			30.0	10.0-144	
(S) Tetrachloro-m-xylene			68.7	10.0-135	

L1731230-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1731230-01 05/05/24 23:12 • (MS) R4066085-6 05/05/24 23:39 • (MSD) R4066085-7 05/05/24 23:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1016	0.00250	<0.000270	0.00235	0.00237	1	50.0-140		0.847	36	
PCB 1260	0.00250	<0.000173	0.00218	0.00215	1	8.00-140		1.39	38	
(S) Decachlorobiphenyl				79.2		10.0-144				
(S) Tetrachloro-m-xylene				84.6		10.0-135				

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230

DATE/TIME:  
05/16/24 16:02

PAGE:  
40 of 70

Method Blank (MB)

(MB) R4067387-3 05/08/24 14:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,2,4,5-Tetrachlorobenzene	<0.00132		0.00132	0.00250
1,2,4-Trichlorobenzene	<0.00159		0.00159	0.00250
1,2-Dichlorobenzene	<0.00168		0.00168	0.00250
1,3-Dichlorobenzene	<0.00170		0.00170	0.00250
1,4-Dichlorobenzene	<0.00184		0.00184	0.00250
2,2-Oxybis(1-Chloropropane)	<0.00116		0.00116	0.00250
2,4,5-Trichlorophenol	<0.00193		0.00193	0.00250
2,4,6-Trichlorophenol	<0.00179		0.00179	0.00250
2,4-Dichlorophenol	<0.000820		0.000820	0.00250
2,4-Dimethylphenol	<0.00142		0.00142	0.00500
2,4-Dinitrophenol	<0.00115		0.00115	0.00500
2,4-Dinitrotoluene	<0.00265		0.00265	0.00500
2,6-Dichlorophenol	<0.00107		0.00107	0.00250
2,6-Dinitrotoluene	<0.00181		0.00181	0.00500
2-Chloronaphthalene	<0.00143		0.00143	0.00250
2-Chlorophenol	<0.000820		0.000820	0.00250
2-Methylphenol	<0.000760		0.000760	0.00500
2-Nitrophenol	<0.00169		0.00169	0.00250
3&4-Methyl Phenol	<0.000767		0.000767	0.00250
3,3-Dichlorobenzidine	<0.00265		0.00265	0.00500
4,6-Dinitro-2-methylphenol	<0.00150		0.00150	0.00500
4-Bromophenyl-phenylether	<0.00104		0.00104	0.00250
4-Chloro-3-methylphenol	<0.000865		0.000865	0.00250
4-Chlorophenyl-phenylether	<0.00140		0.00140	0.00250
4-Nitrophenol	<0.00164		0.00164	0.00500
Acenaphthene	<0.00134		0.00134	0.00250
Acenaphthylene	<0.00134		0.00134	0.00250
Acetophenone	<0.000788		0.000788	0.00250
Alpha-Terpineol	<0.000696		0.000696	0.00250
Aniline	<0.000536		0.000536	0.00250
Anthracene	<0.00111		0.00111	0.00250
Atrazine	<0.00167		0.00167	0.00250
Benzidine	<0.00311		0.00311	0.0100
Benzo(a)anthracene	<0.000933		0.000933	0.00250
Benzo(a)pyrene	<0.000941		0.000941	0.00250
Benzo(b)fluoranthene	<0.00102		0.00102	0.00250
Benzo(g,h,i)perylene	<0.00101		0.00101	0.00250
Benzo(k)fluoranthene	<0.000934		0.000934	0.00250
Benzoic acid	<0.00657		0.00657	0.0100
Benzylbutyl phthalate	<0.00143		0.00143	0.00250

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230

DATE/TIME:  
05/16/24 16:02

PAGE:  
41 of 70

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R4067387-3 05/08/24 14:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Bis(2-chloroethoxy)methane	<0.000991		0.000991	0.00250
Bis(2-chloroethyl)ether	<0.00101		0.00101	0.00250
Bis(2-chloroisopropyl)ether	<0.00116		0.00116	0.00250
Bis(2-Ethylhexyl)phthalate	<0.00318		0.00318	0.00500
Carbazole	<0.00106		0.00106	0.00250
Chrysene	<0.00102		0.00102	0.00250
Di-n-butyl phthalate	<0.00120		0.00120	0.00250
Di-n-octyl phthalate	<0.00174		0.00174	0.00250
Dibenz(a,h)anthracene	<0.00110		0.00110	0.00250
Dibenzofuran	<0.00120		0.00120	0.00250
Diethyl phthalate	<0.000915		0.000915	0.00250
Dimethyl phthalate	<0.000878		0.000878	0.00250
Fluoranthene	<0.00114		0.00114	0.00250
Fluorene	<0.00131		0.00131	0.00250
Hexachloro-1,3-butadiene	<0.00176		0.00176	0.00250
Hexachlorobenzene	<0.000972		0.000972	0.00250
Hexachlorocyclopentadiene	<0.00117		0.00117	0.0100
Hexachloroethane	<0.00188		0.00188	0.00250
1,2-Diphenylhydrazine	<0.00124		0.00124	0.00250
Indeno(1,2,3-cd)pyrene	<0.000984		0.000984	0.00250
Isophorone	<0.00183		0.00183	0.00250
n-Decane	<0.00158		0.00158	0.00250
n-Nitrosodi-n-butylamine	<0.000735		0.000735	0.00250
n-Nitrosodi-n-propylamine	<0.00107		0.00107	0.00250
n-Nitrosodiethylamine	<0.000925		0.000925	0.00250
n-Nitrosodimethylamine	<0.000651		0.000651	0.00250
n-Nitrosodiphenylamine	<0.000829		0.000829	0.00250
n-Octadecane	<0.00128		0.00128	0.00250
Naphthalene	<0.00200		0.00200	0.00250
Nitrobenzene	<0.00124		0.00124	0.00250
Nonylphenol	<0.00286		0.00286	0.00500
Pentachlorobenzene	<0.00134		0.00134	0.00250
Pentachlorophenol	<0.00210		0.00210	0.00500
Phenanthrene	<0.00113		0.00113	0.00250
Phenol	<0.000967		0.000967	0.00250
Pyrene	<0.00115		0.00115	0.00250
Pyridine	<0.00117		0.00117	0.00250
Total Cresols	<0.00153		0.00153	0.00750
(S) 2,4,6-Tribromophenol	68.0			29.0-132
(S) 2-Fluorobiphenyl	71.7			26.0-102

## Method Blank (MB)

(MB) R4067387-3 05/08/24 14:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
(S) 2-Fluorophenol	45.4			10.0-66.0
(S) Nitrobenzene-d5	74.4			15.0-106
(S) p-Terphenyl-d14	75.0			10.0-120
(S) Phenol-d6	31.5			10.0-54.0

## Laboratory Control Sample (LCS)

(LCS) R4067387-4 05/08/24 14:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,4,5-Tetrachlorobenzene	0.0500	0.0321	64.2	31.0-120	
1,2,4-Trichlorobenzene	0.0500	0.0359	71.8	44.0-142	
1,2-Dichlorobenzene	0.0500	0.0355	71.0	27.0-120	
1,3-Dichlorobenzene	0.0500	0.0327	65.4	26.0-120	
1,4-Dichlorobenzene	0.0500	0.0307	61.4	26.0-120	
2,2-Oxybis(1-Chloropropane)	0.0500	0.0369	73.8	36.0-166	
2,4,5-Trichlorophenol	0.0500	0.0493	98.6	44.0-124	
2,4,6-Trichlorophenol	0.0500	0.0384	76.8	37.0-144	
2,4-Dichlorophenol	0.0500	0.0430	86.0	39.0-135	
2,4-Dimethylphenol	0.0500	0.0538	108	32.0-120	
2,4-Dinitrophenol	0.0500	0.0305	61.0	1.00-191	
2,4-Dinitrotoluene	0.0500	0.0384	76.8	39.0-139	
2,6-Dichlorophenol	0.0500	0.0408	81.6	26.0-120	
2,6-Dinitrotoluene	0.0500	0.0504	101	50.0-158	
2-Chloronaphthalene	0.0500	0.0341	68.2	60.0-120	
2-Chlorophenol	0.0500	0.0365	73.0	23.0-134	
2-Methylphenol	0.0500	0.0341	68.2	26.0-120	
2-Nitrophenol	0.0500	0.0373	74.6	29.0-182	
3&4-Methyl Phenol	0.0500	0.0320	64.0	27.0-120	
3,3-Dichlorobenzidine	0.100	0.0512	51.2	1.00-262	
4,6-Dinitro-2-methylphenol	0.0500	0.0294	58.8	1.00-181	
4-Bromophenyl-phenylether	0.0500	0.0398	79.6	53.0-127	
4-Chloro-3-methylphenol	0.0500	0.0431	86.2	22.0-147	
4-Chlorophenyl-phenylether	0.0500	0.0364	72.8	25.0-158	
4-Nitrophenol	0.0500	0.0222	44.4	1.00-132	
Acenaphthene	0.0500	0.0421	84.2	47.0-145	
Acenaphthylene	0.0500	0.0346	69.2	33.0-145	
Acetophenone	0.0500	0.0368	73.6	28.0-120	
Alpha-Terpineol	0.0500	0.0402	80.4	30.0-120	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230DATE/TIME:  
05/16/24 16:02PAGE:  
43 of 70

WG2278666

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Laboratory Control Sample (LCS)

(LCS) R4067387-4 05/08/24 14:35

QUALITY CONTROL SUMMARY

L1731230-01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aniline	0.0500	0.0300	60.0	10.0-120	
Anthracene	0.0500	0.0402	80.4	27.0-133	
Atrazine	0.0500	0.0411	82.2	39.0-141	
Benzidine	0.100	0.0353	35.3	1.00-120	
Benzo(a)anthracene	0.0500	0.0404	80.8	33.0-143	
Benzo(a)pyrene	0.0500	0.0531	106	17.0-163	
Benzo(b)fluoranthene	0.0500	0.0486	97.2	24.0-159	
Benzo(g,h,i)perylene	0.0500	0.0453	90.6	1.00-219	
Benzo(k)fluoranthene	0.0500	0.0490	98.0	11.0-162	
Benzoic acid	0.100	0.0580	58.0	10.0-120	
Benzylbutyl phthalate	0.0500	0.0421	84.2	1.00-152	
Bis(2-chloroethoxy)methane	0.0500	0.0443	88.6	1.00-219	
Bis(2-chloroethyl)ether	0.0500	0.0371	74.2	33.0-185	
Bis(2-chloroisopropyl)ether	0.0500	0.0369	73.8	36.0-166	
Bis(2-Ethylhexyl)phthalate	0.0500	0.0421	84.2	8.00-158	
Carbazole	0.0500	0.0482	96.4	45.0-121	
Chrysene	0.0500	0.0404	80.8	17.0-168	
Di-n-butyl phthalate	0.0500	0.0440	88.0	1.00-120	
Di-n-octyl phthalate	0.0500	0.0447	89.4	4.00-146	
Dibenz(a,h)anthracene	0.0500	0.0537	107	1.00-227	
Dibenzofuran	0.0500	0.0344	68.8	42.0-120	
Diethyl phthalate	0.0500	0.0469	93.8	1.00-120	
Dimethyl phthalate	0.0500	0.0447	89.4	1.00-120	
Fluoranthene	0.0500	0.0399	79.8	26.0-137	
Fluorene	0.0500	0.0361	72.2	59.0-121	
Hexachloro-1,3-butadiene	0.0500	0.0372	74.4	24.0-120	
Hexachlorobenzene	0.0500	0.0391	78.2	1.00-152	
Hexachlorocyclopentadiene	0.0500	0.0277	55.4	10.0-120	
Hexachloroethane	0.0500	0.0319	63.8	40.0-120	
1,2-Diphenylhydrazine	0.0500	0.0360	72.0	37.0-125	
Indeno(1,2,3-cd)pyrene	0.0500	0.0390	78.0	1.00-171	
Isophorone	0.0500	0.0430	86.0	21.0-196	
n-Decane	0.0500	0.0274	54.8	10.0-127	
n-Nitrosodi-n-butylamine	0.0500	0.0404	80.8	39.0-127	
n-Nitrosodi-n-propylamine	0.0500	0.0440	88.0	1.00-230	
n-Nitrosodiethylamine	0.0500	0.0341	68.2	10.0-142	
n-Nitrosodimethylamine	0.0500	0.0220	44.0	10.0-120	
n-Nitrosodiphenylamine	0.0500	0.0375	75.0	44.0-120	
n-Octadecane	0.0500	0.0309	61.8	17.0-126	
Naphthalene	0.0500	0.0365	73.0	21.0-133	

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ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230

DATE/TIME:  
05/16/24 16:02

PAGE:  
44 of 70



## Laboratory Control Sample (LCS)

(LCS) R4067387-4 05/08/24 14:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrobenzene	0.0500	0.0418	83.6	35.0-180	
Nonylphenol	0.0500	0.0496	99.2	57.0-136	
Pentachlorobenzene	0.0500	0.0360	72.0	10.0-151	
Pentachlorophenol	0.0500	0.0384	76.8	14.0-176	
Phenanthrene	0.0500	0.0413	82.6	54.0-120	
Phenol	0.0500	0.0194	38.8	5.00-120	
Pyrene	0.0500	0.0388	77.6	52.0-120	
Pyridine	0.0500	0.0134	26.8	10.0-120	
Total Cresols	0.100	0.0661	66.1	36.0-110	
(S) 2,4,6-Tribromophenol		65.9	65.9	29.0-132	
(S) 2-Fluorobiphenyl		78.4	78.4	26.0-102	
(S) 2-Fluorophenol		45.6	45.6	10.0-66.0	
(S) Nitrobenzene-d5		81.7	81.7	15.0-106	
(S) p-Terphenyl-d14		78.0	78.0	10.0-120	
(S) Phenol-d6		35.5	35.5	10.0-54.0	

## L1732443-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1732443-02 05/07/24 21:22 • (MS) R4067387-1 05/07/24 20:22 • (MSD) R4067387-2 05/07/24 20:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2,4,5-Tetrachlorobenzene	0.0472	<0.00132	0.0202	0.0203	42.8	43.0	1	10.0-147		0.494	0.494	34
1,2,4-Trichlorobenzene	0.0472	<0.00159	0.0244	0.0250	51.7	53.0	1	44.0-142		2.43	2.43	50
1,2-Dichlorobenzene	0.0472	<0.00168	0.0228	0.0235	48.3	49.8	1	14.0-125		3.02	3.02	24
1,3-Dichlorobenzene	0.0472	<0.00170	0.0197	0.0203	41.7	43.0	1	12.0-123		3.00	3.00	22
1,4-Dichlorobenzene	0.0472	<0.00184	0.0199	0.0196	42.2	41.5	1	12.0-125		1.52	1.52	23
2,2-Oxybis(1-Chloropropane)	0.0472	<0.00116	0.0258	0.0280	54.7	59.3	1	36.0-166		8.18	8.18	76
2,4,5-Trichlorophenol	0.0472	<0.00193	0.0365	0.0371	77.3	78.6	1	15.0-160		1.63	1.63	27
2,4,6-Trichlorophenol	0.0472	<0.00179	0.0291	0.0302	61.7	64.0	1	37.0-144		3.71	3.71	58
2,4-Dichlorophenol	0.0472	<0.000820	0.0314	0.0320	66.5	67.8	1	39.0-135		1.89	1.89	50
2,4-Dimethylphenol	0.0472	<0.00142	0.0400	0.0398	84.7	84.3	1	32.0-120		0.501	0.501	58
2,4-Dinitrophenol	0.0472	<0.00115	0.0334	0.0351	70.8	74.4	1	100-191		4.96	4.96	132
2,4-Dinitrotoluene	0.0472	<0.00265	0.0274	0.0291	58.1	61.7	1	39.0-139		6.02	6.02	42
2,6-Dichlorophenol	0.0472	<0.00107	0.0327	0.0327	69.3	69.3	1	60.0-140		0.000	0.000	30
2,6-Dinitrotoluene	0.0472	<0.00181	0.0356	0.0389	75.4	82.4	1	50.0-158		8.86	8.86	48
2-Chloronaphthalene	0.0472	<0.00143	0.0228	0.0223	48.3	47.2	1	60.0-120	J6	2.22	2.22	24
2-Chlorophenol	0.0472	<0.000820	0.0251	0.0244	53.2	51.7	1	23.0-134		2.83	2.83	61
2-Methylphenol	0.0472	<0.000760	0.0240	0.0240	50.8	50.8	1	14.0-120		0.000	0.000	29
2-Nitrophenol	0.0472	<0.00169	0.0259	0.0279	54.9	59.1	1	29.0-182		7.43	7.43	55

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1731230

DATE/TIME:

05/16/24 16:02

PAGE:

45 of 70

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Semi Volatile Organic Compounds (GC/MS) by Method 625.1

QUALITY CONTROL SUMMARY

L1731230-01

L1732443-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1732443-02 05/07/24 21:22 • (MS) R4067387-1 05/07/24 20:22 • (MSD) R4067387-2 05/07/24 20:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
3&4-Methyl Phenol	0.0472	<0.000767	0.0226	0.0218	47.9	46.2	1	13.0-124			3.60	26
3,3-Dichlorobenzidine	0.0943	<0.00265	0.0402	0.0433	42.6	45.9	1	1.00-262			7.43	108
4,6-Dinitro-2-methylphenol	0.0472	<0.00150	0.0241	0.0262	51.1	55.5	1	1.00-181			8.35	203
4-Bromophenyl-phenylether	0.0472	<0.00104	0.0209	0.0207	44.3	43.9	1	53.0-127	J6		0.962	43
4-Chloro-3-methylphenol	0.0472	<0.000865	0.0298	0.0297	63.1	62.9	1	22.0-147			0.336	73
4-Chlorophenyl-phenylether	0.0472	<0.00140	0.0187	0.0179	39.6	37.9	1	25.0-158			4.37	61
4-Nitrophenol	0.0472	<0.00164	0.0179	0.0169	37.9	35.8	1	1.00-132			5.75	131
Acenaphthene	0.0472	<0.00134	0.0252	0.0243	53.4	51.5	1	47.0-145			3.64	48
Acenaphthylene	0.0472	<0.00134	0.0220	0.0221	46.6	46.8	1	33.0-145			0.454	74
Acetophenone	0.0472	<0.000788	0.0248	0.0273	52.5	57.8	1	10.0-139			9.60	35
Alpha-Terpineol	0.0472	<0.000696	0.0328	0.0353	69.5	74.8	1	30.0-120			7.34	30
Aniline	0.0472	<0.000536	0.0152	0.0240	32.2	50.8	1	10.0-120	J3		44.9	25
Anthracene	0.0472	<0.00111	0.0223	0.0213	47.2	45.1	1	27.0-133			4.59	66
Atrazine	0.0472	<0.00167	0.0302	0.0316	64.0	66.9	1	39.0-130			4.53	30
Benzidine	0.0943	<0.00311	0.00520	0.0226	5.51	24.0	1	1.00-120			125	40
Benzo(a)anthracene	0.0472	<0.000933	0.0249	0.0258	52.8	54.7	1	33.0-143	J3		3.55	53
Benzo(a)pyrene	0.0472	<0.000941	0.0315	0.0318	66.7	67.4	1	17.0-163			0.948	72
Benzo(b)fluoranthene	0.0472	<0.00102	0.0265	0.0269	56.1	57.0	1	24.0-159			1.50	71
Benzo(g,h,i)perylene	0.0472	<0.00101	0.0272	0.0286	57.6	60.6	1	1.00-219			5.02	97
Benzo(k)fluoranthene	0.0472	<0.000934	0.0324	0.0339	68.6	71.8	1	11.0-162			4.52	63
Benzoic acid	0.0943	2.25	2.14	2.28	0.000	31.8	1	10.0-120	E.V		6.33	40
Benzylbutyl phthalate	0.0472	<0.00143	0.0259	0.0268	54.9	56.8	1	1.00-152			3.42	60
Bis(2-chlorethoxy)methane	0.0472	<0.000991	0.0287	0.0321	60.8	68.0	1	33.0-184			11.2	54
Bis(2-chloroethyl)ether	0.0472	<0.00101	0.0255	0.0298	54.0	63.1	1	12.0-158			15.6	108
Bis(2-chloroisopropyl)ether	0.0472	<0.00116	0.0258	0.0280	54.7	59.3	1	36.0-166			8.18	76
Bis(2-Ethylhexyl)phthalate	0.0472	<0.00318	0.0306	0.0314	64.8	66.5	1	8.00-158			2.58	82
Carbazole	0.0472	<0.00106	0.0344	0.0376	72.9	79.7	1	23.0-158			8.89	26
Chrysene	0.0472	<0.00102	0.0256	0.0250	54.2	53.0	1	17.0-168			2.37	87
Di-n-butyl phthalate	0.0472	<0.00120	0.0239	0.0234	50.6	49.6	1	1.00-120			2.11	47
Di-n-octyl phthalate	0.0472	<0.00174	0.0306	0.0313	64.8	66.3	1	4.00-146			2.26	69
Dibenz(a,h)anthracene	0.0472	<0.00110	0.0341	0.0349	72.2	73.9	1	1.00-227			2.32	126
Dibenzofuran	0.0472	<0.00120	0.0207	0.0205	43.9	43.4	1	17.0-150			0.971	27
Diethyl phthalate	0.0472	<0.000915	0.0319	0.0327	67.6	69.3	1	1.00-120			2.48	100
Dimethyl phthalate	0.0472	<0.000878	0.0331	0.0346	70.1	73.3	1	1.00-120			4.43	183
Fluoranthene	0.0472	<0.00114	0.0224	0.0221	47.5	46.8	1	26.0-137			1.35	66
Fluorene	0.0472	<0.00131	0.0201	0.0194	42.6	41.1	1	59.0-121	J6		3.54	38
Hexachloro-1,3-butadiene	0.0472	<0.00176	0.0188	0.0175	39.8	37.1	1	24.0-120			7.16	62
Hexachlorobenzene	0.0472	<0.000972	0.0235	0.0232	49.8	49.2	1	1.00-152			1.28	55
Hexachlorocyclopentadiene	0.0472	<0.00117	0.0166	0.0134	35.2	28.4	1	10.0-146			21.3	34
Hexachloroethane	0.0472	<0.00188	0.0182	0.0177	38.6	37.5	1	40.0-120	J6		2.79	52

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1731230

DATE/TIME:

05/16/24 16:02

PAGE:

46 of 70



## L1732443-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1732443-02 05/07/24 21:22 • (MS) R4067387-1 05/07/24 20:22 • (MSD) R4067387-2 05/07/24 20:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2-Diphenylhydrazine	0.0472	<0.00124	0.0229	0.0209	48.5	44.3	1	18.0-156	N2	N2	9.13	34
Indeno(1,2,3-cd)pyrene	0.0472	<0.000984	0.0249	0.0257	52.8	54.4	1	1.00-171			3.16	99
Isophorone	0.0472	<0.00183	0.0274	0.0304	58.1	64.4	1	21.0-196			10.4	93
n-Decane	0.0472	<0.00158	0.0109	0.0110	23.1	23.3	1	10.0-127			0.913	37
n-Nitrosodi-n-butylamine	0.0472	<0.000735	0.0233	0.0253	49.4	53.6	1	60.0-140	J6	J6	8.23	30
n-Nitrosodi-n-propylamine	0.0472	<0.00107	0.0298	0.0323	63.1	68.4	1	1.00-230			8.05	87
n-Nitrosodiethylamine	0.0472	<0.000925	0.0252	0.0254	53.4	53.8	1	60.0-140	J6	J6	0.791	30
n-Nitrosodimethylamine	0.0472	<0.000651	0.0133	0.0141	28.2	29.9	1	10.0-120			5.84	40
n-Nitrosodiphenylamine	0.0472	<0.000829	0.0241	0.0247	51.1	52.3	1	16.0-160			2.46	28
n-Octadecane	0.0472	<0.00128	0.0210	0.0224	44.5	47.5	1	17.0-126			6.45	23
Naphthalene	0.0472	<0.00200	0.0267	0.0281	56.6	59.5	1	21.0-133			5.11	65
Nitrobenzene	0.0472	<0.00124	0.0290	0.0319	61.4	67.6	1	35.0-180			9.52	62
Nonylphenol	0.0472	<0.00286	0.0326	0.0338	69.1	71.6	1	37.0-142			3.61	40
Pentachlorobenzene	0.0472	<0.00134	0.0210	0.0197	44.5	41.7	1	60.0-140	J6	J6	6.39	30
Pentachlorophenol	0.0472	<0.00210	0.0305	0.0278	64.6	58.9	1	14.0-176			9.26	86
Phenanthrene	0.0472	<0.00113	0.0225	0.0216	47.7	45.8	1	54.0-120	J6	J6	4.08	39
Phenol	0.0472	<0.000967	0.0130	0.0125	27.5	26.5	1	5.00-120			3.92	64
Pyrene	0.0472	<0.00115	0.0295	0.0267	62.5	56.6	1	52.0-120			9.96	49
Pyridine	0.0472	<0.00117	0.00254	0.0100	5.38	21.2	1	10.0-120	J6	J3	119	40
Total Cresols	0.0943	<0.00153	0.0466	0.0458	49.4	48.6	1	10.0-118			1.73	40
(S) 2,4,6-Tribromophenol					50.7	50.7		29.0-132				
(S) 2-Fluorobiphenyl					46.3	46.1		26.0-102				
(S) 2-Fluorophenol					30.2	29.6		10.0-66.0				
(S) Nitrobenzene-d5					52.1	61.8		15.0-106				
(S) p-Terphenyl-d14					41.3	35.8		10.0-120				
(S) Phenol-d6					24.5	24.7		10.0-54.0				

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1731230DATE/TIME:  
05/16/24 16:02PAGE:  
47 of 70



# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

## Qualifier Description

E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
K9	Test replicates show more than 30% difference between high and low values.
N2	Analyte reported using a calibration and validation based on Azobenzene (CAS 103-33-3). 1,2-Diphenylhydrazine decomposes into Azobenzene during the analysis.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-05-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1 6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1 4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA - ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA - ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

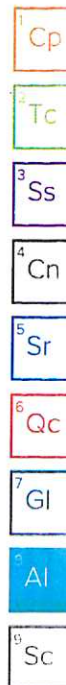
## Pace Analytical Services, LLC -Dallas 400 W. Bethany Drive Suite 190 Allen, TX 75013

Arkansas	88-0647	Kansas	E10388
Florida	E871118	Texas	T104704232-23-39
Iowa	408	Oklahoma	8727
Louisiana	30686		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.














**AD DNEA**

10221 7280 7814 6346  
**FedEx**

WED - 01 MAY AA  
PRIORITY OVERNIGHT  
75013  
TX-US  
DFW





	Document Name:	Sample Condition Upon Receipt
	Document No.:	F-DAL-C-001-rev.14
Document Revised: 7/27/20		Page 1 of 1
Issuing Authority:		Pace Dallas Quality Office

☒ Dallas  
 ☐ Ft Worth  
 ☐ Corpus Christi  
 ☐ Austin

### Sample Condition Upon Receipt

Client Name: Holiday Brain WSC  
 Project Work order (place label): \_\_\_\_\_  
 Courier: ☒ FedEx ☐ UPS ☐ Client ☐ LSO ☐ PACE ☐ Other: \_\_\_\_\_  
 Tracking #: 7250 7914 4344

Custody Seal on Cooler/Box: Yes ☒ No ☐  
 Received on ice: Wet ☒ Blue ☐ No ice ☐  
 Receiving Lab 1 Thermometer Used: 16.9  
 Cooler Temp °C: (Recorded) 0.9 (Correction Factor) 1.1 (Actual)  
 Receiving Lab 2 Thermometer Used: \_\_\_\_\_  
 Cooler Temp °C: (Recorded) \_\_\_\_\_ (Correction Factor) \_\_\_\_\_ (Actual)

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable

Triage Person: AS  
 Date: 5/1/24

Chain of Custody relinquished	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sampler name & signature on COC	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Short HT analyses (<72 hrs)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Login Person: AL  
 Date: 5/1

Sufficient Volume received	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Correct Container used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Container Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample pH Acceptable	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
pH Strips: <u>6.30/6.00/4</u> Residual Chlorine Present: <u>14820</u> CI Strips: <u>14820</u> Sulfide Present: <u>1482</u> Lead Acetate Strips: <u>1482</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Are soil samples (volatiles, TPH) received in 5035A kits (not applicable to TCLP VOA or PST Program TPH)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Unpreserved 5035A soil frozen within 48 hrs	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Headspace in VOA (>6mm)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Project sampled in USDA Regulated Area outside of Texas	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
State Sampled:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Non-Conformance(s):	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> <u>6/5/11</u>

Labeling Person (if different than log-in): \_\_\_\_\_ Date: \_\_\_\_\_



Time estimate: oh

Time spent: oh

Members

OC Olivia Currie (responsible)

1. If Chain-of-custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

\* Collection date/time missing or incorrect

\* Analyses or analytes: missing or Clarification needed

\* Samples listed on COC do not match samples received (missing, additional, etc.)

\* Sample IDs on COC do not match sample Labels

\* Required trip blanks were not received

\* Required signatures are missing

3. Sample integrity issues: check applicable issues below and add details where appropriate:

\* Samples: Past holding time

\* Samples: Not Field Filtered

\* Samples: Insufficient volume received

\* Samples: Cooler damaged or compromised

\* Samples: contain Chlorine or Sulfide

\* Samples: condition needs to be brought to lab personnel's attention (details below)

\* Containers: Broken or compromised

\* Containers: Incorrect

\* Custody Seals: missing or compromised on samples, trip blanks or coolers

\* Packing Material: Insufficient/Improper

\* Preservation: Improper

\* Temperature: not within acceptance criteria (typically 0-6C)

\* Temperature: Samples arrived frozen

\* Vials received with improper headspace

\* Other:

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

Sample ID: RO DISCHARGE

Preserved by: AG

Date/Time: 05/01/24 1258

Initial and Final pH: 8/0

Amount/type pres added: 2.5ML HNO3

Lot # of Pres added: 23L29472

5. Client contact: If Client is Contacted for any issue listed above, fill in details below:

Client:

PM Initials:

Contacted per:

Date/Time:

Comments

2 May 2024 10:21 AM

metals pH improper; see preservation details above  
sulfide pH of 10

Olivia Currie

[illegible]







75013  
DEFW  
WED - 01 MAY AA  
PRIORITY OVERNIGHT


AD DNEA

7280 7814 6346

FedEx





	
Document Name:	Sample Condition Upon Receipt
Document No.:	F-DAL-C-001 rev. 14
Issuing Authority:	Pace Dallas Quality Office

☒ Dallas   
 ☐ Ft Worth   
 ☐ Corpus Christi   
 ☐ Austin

### Sample Condition Upon Receipt

Client Name: Holiday Brain WSC  
 Courier: FedEX ☒ UPS ☐ Client ☐ LSO ☐ PACE ☐ Other: USPS  
 Tracking #: 7250 7944 4344  
 Custody Seal on Cooler/Box: Yes ☒ No ☐  
 Received on ice: Wet ☒ Blue ☐ No ice ☐  
 Receiving Lab 1 Thermometer Used: 1K19  
 Receiving Lab 2 Thermometer Used: \_\_\_\_\_  
 Cooler Temp °C: (Recorded) 0.9 (Correction Factor) +0.2 (Actual) 1.1  
 Cooler Temp °C: (Recorded) \_\_\_\_\_ (Correction Factor) \_\_\_\_\_ (Actual) \_\_\_\_\_

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable

Triage Person: AS Date: 5/1/24

Chain of Custody relinquished	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sampler name & signature on COC	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Short HT analyses (<72 hrs)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Login Person: AL Date: 5/1

Sufficient Volume received	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Correct Container used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Container Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample pH Acceptable	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Residual Chlorine Present	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Cl Strips:	<u>14860</u>
Sulfide Present	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Lead Acetate Strips:	<u>14842</u>
Are soil samples (volatiles, TPH) received in 5035A kits (not applicable to TCLP VOA or PST Program TPH)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Unpreserved 5035A soil frozen within 48 hrs	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Headspace in VOA (>6mm)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Project sampled in USDA Regulated Area outside of Texas	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
State Sampled:	
Non-Conformance(s):	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <u>6/5/11</u>

Labeling Person (if different than log-in): \_\_\_\_\_ Date: \_\_\_\_\_





May 15, 2024

Jeremy Watkins  
Pace Analytical Dallas  
400 West Bethany Drive  
Suite 190  
Allen, TX 75013

RE: Project: L1731230  
Pace Project No.: 40277693

Dear Jeremy Watkins:

Enclosed are the analytical results for sample(s) received by the laboratory on May 02, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:  
• Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Angela Lane".

Angela Lane  
angela.lane@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures

cc: Client Services, Pace Analytical Allen



## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



Pace Analytical Services, LLC  
1241 Bellevue Street - Suite 9  
Green Bay, WI 54302  
(920)469-2436

## CERTIFICATIONS

Project: L1731230

Pace Project No.: 40277693

---

### Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

---

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: L1731230  
Pace Project No.: 40277693

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40277693001	RO DISCHARGE	Water	04/30/24 08:15	05/02/24 09:20

## REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC  
1241 Bellevue Street - Suite 9  
Green Bay, WI 54302  
(920)469-2436

### SAMPLE ANALYTE COUNT

Project: L1731230  
Pace Project No.: 40277693

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40277693001	RO DISCHARGE	EPA 1631E	AJT	1

PASI-G = Pace Analytical Services - Green Bay

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: L1731230  
Pace Project No.: 40277693

Sample: RO DISCHARGE		Lab ID: 40277693001	Collected: 04/30/24 08:15	Received: 05/02/24 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level		Analytical Method: EPA 1631E Preparation Method: EPA 1631E Pace Analytical Services - Green Bay						
Mercury	ND	ng/L	0.50	1	05/07/24 12:00	05/15/24 08:13	7439-97-6	

## REPORT OF LABORATORY ANALYSIS



## QUALITY CONTROL DATA

Project: L1731230

Pace Project No.: 40277693

QC Batch: 473628

Analysis Method: EPA 1631E

QC Batch Method: EPA 1631E

Analysis Description: 1631E Mercury

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40277693001

METHOD BLANK: 2712714

Matrix: Water

Associated Lab Samples: 40277693001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	05/15/24 07:03	

METHOD BLANK: 2712715

Matrix: Water

Associated Lab Samples: 40277693001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	05/15/24 08:08	

METHOD BLANK: 2712716

Matrix: Water

Associated Lab Samples: 40277693001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	05/15/24 09:22	

LABORATORY CONTROL SAMPLE: 2712718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ng/L	5	4.43	89	79-121	

LABORATORY CONTROL SAMPLE: 2712719

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ng/L	5	4.33	87	79-121	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 2716951

2716952

Parameter	Units	40277691001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Mercury	ng/L	1.31	2.02	2.02	3.58	3.03	112	85	75-125	17	24

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: L1731230  
Pace Project No.: 40277693

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
ND - Not Detected at or above adjusted reporting limit.  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1731230

Pace Project No.: 40277693

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40277693001	RO DISCHARGE	EPA 1631E	473628	EPA 1631E	474477

## REPORT OF LABORATORY ANALYSIS

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**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company	Pace Analytical	Report To	Pace Analytical Subout Team	Attention	Vernon Hale
Address	400 W Bethany Drive Suite 190	Copy To		Company Name	
	Allen, TX 75013			Address	
Email	Dallas_Sub@paceclabs.com	Purchase Order #	L1731230	Pace Quote	
Phone	(972) 727-1123	Project Name		Pace Project Manager	Angela Lane
	Fax	Project #		Pace Profile #	38076
Requested Due Date	8-May				
				Regulatory Agency	
				State / Location	
				TX	

Page : 1 Of 1

[illegible]

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Wm Hysan Jones SPACE	5/11/24	1700	FedEx	5/11/24	1700	
Pace Analytical Batch WG2278328	FedEx	05/02/24	0930	Juan Carlos	05/02/24	0930	N Y
Pace Analytical SDGs: L1731230	FedEx	05/02/24	0930	Juan Carlos	05/02/24	0930	N Y
Location: Green Bay, WI 54302							

		TEMP IN C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
<b>SAMPLER NAME AND SIGNATURE</b>					
PRINT Name of SAMPLER:					
SIGNATURE OF SAMPLER:			DATE Signed:		



DC# Title: ENV-FRM-GBAY-0035 v03\_Sample Preservation Receipt Form  
Effective Date: 8/16/2022

Client Name:

*Pace ITX*

Sample Preservation Receipt Form

Project #

*40277693*

All containers needing preservation have been checked and noted below:

☐ Yes ☐ No

Lab Lot# of pH paper:

Lab Std #/ID of preservation (if pH adjusted):

Initial when completed

Date/Time

Pace Lab #	Glass					Plastic					Vials					Jars				General				VOA Vials (>6mm) *				Volume (mL)							
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2		H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted		
001																																			2.5/5
002																																			2.5/5
003																																			2.5/5
004																																			2.5/5
005																																			2.5/5
006																																			2.5/5
007																																			2.5/5
008																																			2.5/5
009																																			2.5/5
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014																																			2.5/5
015																																			2.5/5
016																																			2.5/5
017																																			2.5/5
018																																			2.5/5
019																																			2.5/5
020																																			2.5/5

Expenditures by representative about: VOA Coliforms, TDC, TOX, TOL, O&G, M&P&O, etc.

05/02/24 S&C

Exceptions to preservation check VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:

Headspace in VOA Vials (>6mm): ☐ Yes ☐ No ☒ N/A \*If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JG9U	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	WG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WPFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL		4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

### Sample Condition Upon Receipt Form (SCUR)

Client Name: Pace, TX

Project #:

Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Walto  
☐ Client ☐ Pace Other:

WO#: 40277693



Tracking #: 741144529140

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - N/A

Type of Ice: Wet Blue Dry ☒ None ☐ Meltwater Only

Cooler Temperature Uncorr: N/A / Corr:

Temp Blank Present: ☐ yes ☒ no

Biological Tissue is Frozen: ☐ yes ☐ no

Person examining contents:

Date: 05/02/24 Initials: SK

Labeled By Initials: SK

Temp should be above freezing to 6°C.  
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	4. <u>IRWD</u>
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		9.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Correct Type: <u>Pace Green Bay</u> , Pace IR, Non-Pace		11.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. <u>Label on outside of bubble bag.</u>
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <u>05/02/24 SK</u>
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		
Client Notification/ Resolution:		
Person Contacted:		
Comments/ Resolution:	Date/Time:	If checked, see attached form for additional comments <input type="checkbox"/>

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

Page 2 of 2



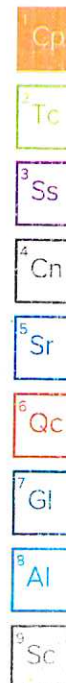


# ANALYTICAL REPORT

June 06, 2024

## Holiday Beach WSC

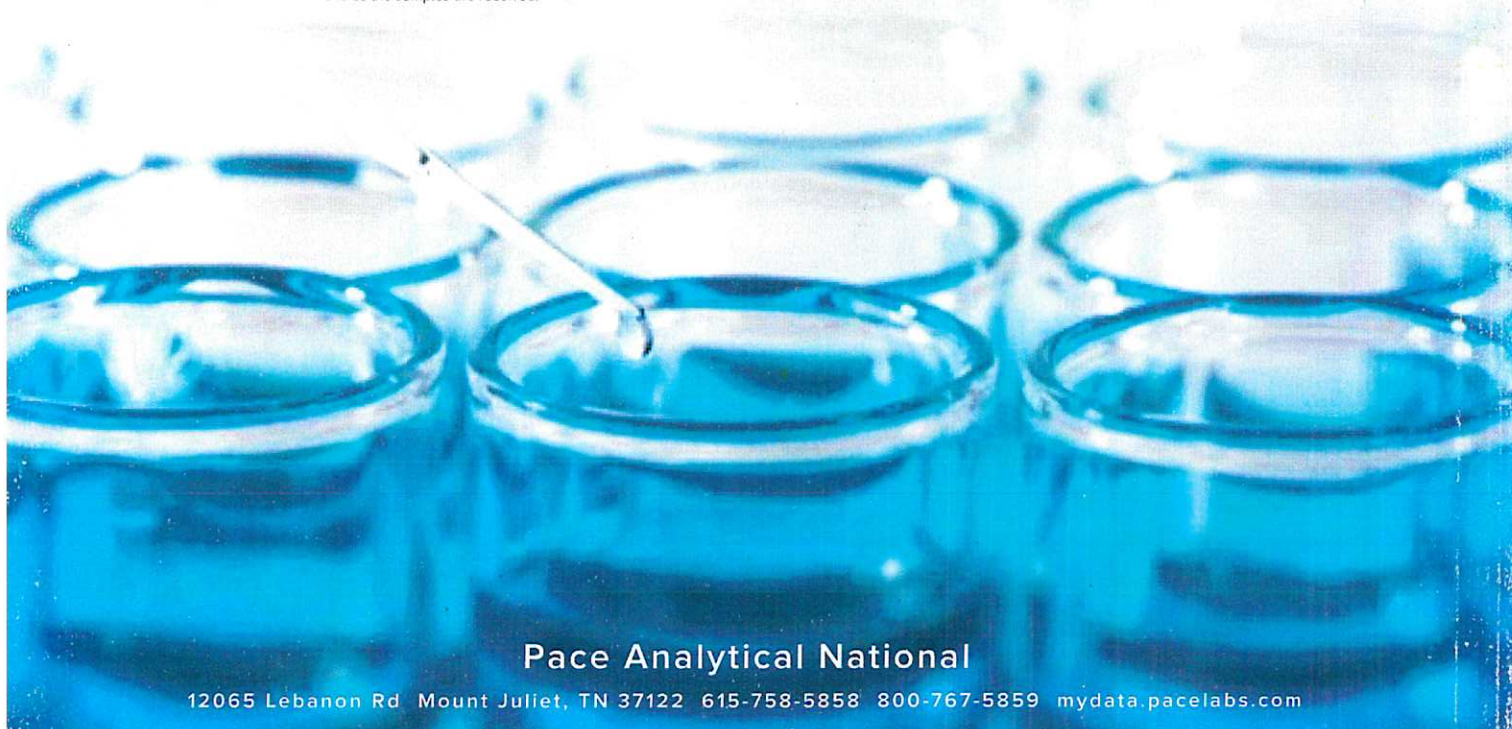
Sample Delivery Group: L1733793  
Samples Received: 05/08/2024  
Project Number:  
Description: Permit Renewal WK4 of 4  
Site: TX0040015  
Report To: Vernon Hale  
PO Box 807  
Fulton, TX 78358



Entire Report Reviewed By:

Lori A Vahrenkamp  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

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# TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
R.O. DISCHARGE L1733793-01	5
Qc: Quality Control Summary	11
Gravimetric Analysis by Method 2540C	11
Gravimetric Analysis by Method 2540D	12
Wet Chemistry by Method 1664A	13
Wet Chemistry by Method 2120B	14
Wet Chemistry by Method 2320B	15
Wet Chemistry by Method 300.0	16
Wet Chemistry by Method 3500Cr-B	18
Wet Chemistry by Method 351.2	19
Wet Chemistry by Method 353.2	20
Wet Chemistry by Method 4500CN-E	22
Wet Chemistry by Method 4500P-E	23
Wet Chemistry by Method 4500-S2 D	24
Wet Chemistry by Method 5210 B-2016	25
Wet Chemistry by Method 5220D	27
Wet Chemistry by Method 5310C	28
Wet Chemistry by Method 5540C	29
Wet Chemistry by Method SM 4500-H+B	30
Wet Chemistry by Method SM4500NH3H	31
Metals (ICP) by Method 200.7	32
Volatile Organic Compounds (GC/MS) by Method 624.1	35
Pesticides (GC) by Method EPA 608.3	38
Polychlorinated Biphenyls (GC) by Method EPA-608.3	41
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	42
Gl: Glossary of Terms	47
Al: Accreditations & Locations	48
Sc: Sample Chain of Custody	49

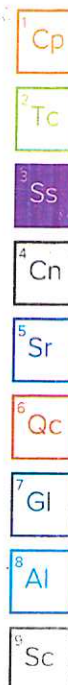
1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
11	Qc
11	Gravimetric Analysis by Method 2540C
12	Gravimetric Analysis by Method 2540D
13	Wet Chemistry by Method 1664A
14	Wet Chemistry by Method 2120B
15	Wet Chemistry by Method 2320B
16	Wet Chemistry by Method 300.0
18	Wet Chemistry by Method 3500Cr-B
19	Wet Chemistry by Method 351.2
20	Wet Chemistry by Method 353.2
22	Wet Chemistry by Method 4500CN-E
23	Wet Chemistry by Method 4500P-E
24	Wet Chemistry by Method 4500-S2 D
25	Wet Chemistry by Method 5210 B-2016
27	Wet Chemistry by Method 5220D
28	Wet Chemistry by Method 5310C
29	Wet Chemistry by Method 5540C
30	Wet Chemistry by Method SM 4500-H+B
31	Wet Chemistry by Method SM4500NH3H
32	Metals (ICP) by Method 200.7
35	Volatile Organic Compounds (GC/MS) by Method 624.1
38	Pesticides (GC) by Method EPA 608.3
41	Polychlorinated Biphenyls (GC) by Method EPA-608.3
42	Semi Volatile Organic Compounds (GC/MS) by Method 625.1
47	Gl: Glossary of Terms
48	Al: Accreditations & Locations
49	Sc: Sample Chain of Custody

# SAMPLE SUMMARY

R.O. DISCHARGE L1733793-01 WW

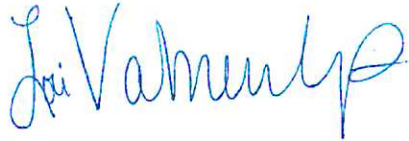
Collected by: Vernon Hale  
 Collected date/time: 05/07/24 08:15  
 Received date/time: 05/08/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2284218	1	05/11/24 10:03	05/11/24 10:03	EJS	Allen, TX
Gravimetric Analysis by Method 2540C	WG2284020	1	05/10/24 11:23	05/10/24 13:44	QQT	Allen, TX
Gravimetric Analysis by Method 2540D	WG2284433	1	05/11/24 04:26	05/11/24 05:48	TJG	Allen, TX
Wet Chemistry by Method 1664A	WG2284081	1	05/10/24 15:09	05/14/24 08:10	TM	Allen, TX
Wet Chemistry by Method 2120B	WG2282775	1	05/08/24 16:19	05/08/24 16:19	SMC	Allen, TX
Wet Chemistry by Method 2320B	WG2285291	1	05/13/24 09:19	05/13/24 09:19	JBS	Allen, TX
Wet Chemistry by Method 300.0	WG2284769	10	05/14/24 23:53	05/14/24 23:53	ERP	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2284769	100	05/15/24 00:09	05/15/24 00:09	ERP	Mt. Juliet, TN
Wet Chemistry by Method 3500Cr-B	WG2283915	1	05/10/24 15:39	05/10/24 15:39	KCM	Allen, TX
Wet Chemistry by Method 351.2	WG2285928	1	05/14/24 10:22	05/14/24 20:04	EIG	Allen, TX
Wet Chemistry by Method 353.2	WG2282756	1	05/08/24 21:09	05/08/24 21:09	EIG	Allen, TX
Wet Chemistry by Method 353.2	WG2284087	1	05/10/24 15:52	05/10/24 15:52	EIG	Allen, TX
Wet Chemistry by Method 4500CN-E	WG2282407	1	05/09/24 09:30	05/09/24 17:33	KCM	Allen, TX
Wet Chemistry by Method 4500P-E	WG2285268	10	05/13/24 18:53	05/13/24 18:53	SMC	Allen, TX
Wet Chemistry by Method 4500-S2 D	WG2282700	1	05/08/24 18:37	05/08/24 18:37	EIG	Allen, TX
Wet Chemistry by Method 5210 B-2016	WG2282373	1	05/08/24 14:06	05/13/24 10:01	JBS	Allen, TX
Wet Chemistry by Method 5210 B-2016	WG2282376	1	05/08/24 15:21	05/13/24 11:07	JBS	Allen, TX
Wet Chemistry by Method 5220D	WG2283174	1	05/09/24 10:20	05/09/24 18:13	JBS	Allen, TX
Wet Chemistry by Method 5310C	WG2284147	1	05/10/24 22:10	05/10/24 22:10	EIG	Allen, TX
Wet Chemistry by Method 5540C	WG2282754	1	05/08/24 20:15	05/08/24 20:28	EIG	Allen, TX
Wet Chemistry by Method SM 4500-H+B	WG2285806	1	05/14/24 08:26	05/14/24 08:26	JBS	Allen, TX
Wet Chemistry by Method SM4500NH3H	WG2285448	1	05/13/24 17:35	05/13/24 17:35	EIG	Allen, TX
Metals (ICP) by Method 200.7	WG2284218	1	05/10/24 17:00	05/11/24 10:03	EJS	Allen, TX
Volatile Organic Compounds (GC/MS) by Method 624.1	WG2284163	1	05/10/24 23:58	05/10/24 23:58	ZST	Allen, TX
Pesticides (GC) by Method EPA 608.3	WG2284804	1	05/12/24 02:26	05/12/24 17:18	RDH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method EPA-608.3	WG2284804	1	05/12/24 02:26	05/12/24 17:18	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG2283837	1	05/10/24 09:06	05/10/24 19:19	XLY	Allen, TX
Subcontracted Analyses	WG2283542	1	05/28/24 00:00	05/28/24 00:00	JWW	Green Bay, WI 54302



# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Lori A Vahrenkamp  
Project Manager

## Project Narrative

L1733793 -01 contains subout data that is included after the chain of custody.

## Sample Delivery Group (SDG) Narrative

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

Lab Sample ID	Project Sample ID	Method
<a href="#">L1733793-01</a>	<a href="#">R.O. DISCHARGE</a>	3500Cr-B

No extra volume received to perform Matrix Spike samples.

Lab Sample ID	Project Sample ID	Method
<a href="#">L1733793-01</a>	<a href="#">R.O. DISCHARGE</a>	625.1

An aliquot for analysis was taken from the original container received due to volume requirements of the laboratory's procedure. Rinsing of the original sample container for inclusion in the sample extraction was not performed.

Lab Sample ID	Project Sample ID	Method
<a href="#">L1733793-01</a>	<a href="#">R.O. DISCHARGE</a>	EPA 608.3, EPA-608.3

The Laboratory is not accredited for specific analytes on the associated Sample/Method. These analytes are flagged in the Sample Results section of the report with an asterisk (\*).

Lab Sample ID	Project Sample ID	Method
<a href="#">L1733793-01</a>	<a href="#">R.O. DISCHARGE</a>	300.0



## R.O. DISCHARGE

Collected date/time: 05/07/24 08:15

## SAMPLE RESULTS - 01

L1733793

## Calculated Results

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chromium, Trivalent	0.000868	J	0.000710	0.00300	1	05/11/2024 10:03	WG2284218

## Gravimetric Analysis by Method 2540C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Total Dissolved Solids	11700		25.0	1	05/10/2024 13:44	WG2284020	

## Gravimetric Analysis by Method 2540D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Suspended Solids	8.63		3.13	1	05/11/2024 05:48	WG2284433	

## Wet Chemistry by Method 1664A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Oil & Grease (Hexane Extr)	<0.407		0.407	5.81	1	05/14/2024 08:10	WG2284081

## Wet Chemistry by Method 2120B

Analyte	Result units	Qualifier	MDL units	RDL units	Dilution	Analysis date / time	Batch
Color	5.00		5.00	1	05/08/2024 16:19	WG2282775	

## Sample Narrative:

L1733793-01 WG2282775: 8.00

## Wet Chemistry by Method 2320B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	2100		20.0	20.0	1	05/13/2024 09:19	WG2285291
Alkalinity, Bicarbonate	2100		20.0	20.0	1	05/13/2024 09:19	WG2285291
Alkalinity, Carbonate	<20.0		20.0	20.0	1	05/13/2024 09:19	WG2285291
Alkalinity, Hydroxide	<20.0		20.0	20.0	1	05/13/2024 09:19	WG2285291
Phenolphthalein Alkalinity	<20.0		20.0	20.0	1	05/13/2024 09:19	WG2285291

## Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
*Bromide	15.8		3.53	10.0	10	05/14/2024 23:53	WG2284769
Chloride	4850		37.9	100	100	05/15/2024 00:09	WG2284769
Fluoride	4.35		0.640	1.50	10	05/14/2024 23:53	WG2284769
Sulfate	854		59.4	500	100	05/15/2024 00:09	WG2284769

## Wet Chemistry by Method 3500Cr-B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chromium, Hexavalent	<0.00200		0.00200	0.00300	1	05/10/2024 15:39	WG2283915

## Wet Chemistry by Method 351.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	0.852		0.140	0.250	1	05/14/2024 20:04	WG2285928

## R.O. DISCHARGE

## SAMPLE RESULTS - 01

Collected date/time: 05/07/24 08:15

L1733793

## Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	<0.0300		0.0300	0.0500	1	05/08/2024 21:09	<a href="#">WG2282756</a>
Nitrate-Nitrite	<0.0300		0.0300	0.0500	1	05/10/2024 15:52	<a href="#">WG2284087</a>
Nitrate	<0.0300		0.0300	0.0500	1	05/08/2024 21:09	<a href="#">WG2282756</a>
Nitrite	<0.0300		0.0300	0.0500	1	05/08/2024 21:09	<a href="#">WG2282756</a>

## Wet Chemistry by Method 4500CN-E

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Cyanide	<0.00430		0.00430	0.0100	1	05/09/2024 17:33	<a href="#">WG2282407</a>

## Wet Chemistry by Method 4500P-E

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Phosphorus, Total	2.60		0.152	0.500	10	05/13/2024 18:53	<a href="#">WG2285268</a>

## Wet Chemistry by Method 4500-S2 D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	<0.0230	<a href="#">J6</a>	0.0230	0.100	1	05/08/2024 18:37	<a href="#">WG2282700</a>

## Wet Chemistry by Method 5210 B-2016

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
BOD	<1.00		1.00	1	1	05/13/2024 10:01	<a href="#">WG2282373</a>
CBOD	<1.00		1.00	1	1	05/13/2024 11:07	<a href="#">WG2282376</a>

## Wet Chemistry by Method 5220D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
COD	271		16.1	35.0	1	05/09/2024 18:13	<a href="#">WG2283174</a>

## Wet Chemistry by Method 5310C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4.74		0.270	0.700	1	05/10/2024 22:10	<a href="#">WG2284147</a>

## Wet Chemistry by Method 5540C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
MBAS	<0.360	<a href="#">J5</a>	0.360	0.500	1	05/08/2024 20:28	<a href="#">WG2282754</a>

## Wet Chemistry by Method SM 4500-H+B

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.28	<a href="#">T8</a>	1	05/14/2024 08:26	<a href="#">WG2285806</a>

## Sample Narrative:

L1733793-01 WG2285806: 8.28 at 20.9C

## Wet Chemistry by Method SM4500NH3H

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
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## R.O. DISCHARGE

Collected date/time: 05/07/24 08:15

## SAMPLE RESULTS - 01

L1733793

## Wet Chemistry by Method SM4500NH3H

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	0.922		0.0280	0.100	1	05/13/2024 17:35	WG2285448

## Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	<0.0353		0.0353	0.500	1	05/11/2024 10:03	WG2284218
Antimony	<0.00242		0.00242	0.0250	1	05/11/2024 10:03	WG2284218
Arsenic	0.00848	J	0.00418	0.0200	1	05/11/2024 10:03	WG2284218
Barium	0.295		0.000490	0.0100	1	05/11/2024 10:03	WG2284218
Beryllium	<0.000180		0.000180	0.00100	1	05/11/2024 10:03	WG2284218
Boron	2.50		0.186	0.100	1	05/11/2024 10:03	WG2284218
Cadmium	0.000439	J	0.000350	0.00500	1	05/11/2024 10:03	WG2284218
Chromium	0.000868	J	0.000710	0.00700	1	05/11/2024 10:03	WG2284218
Cobalt	<0.000680		0.000680	0.00250	1	05/11/2024 10:03	WG2284218
Copper	<0.00364		0.00364	0.0200	1	05/11/2024 10:03	WG2284218
Iron	0.507		0.0303	0.500	1	05/11/2024 10:03	WG2284218
Lead	0.00981	J	0.00312	0.0100	1	05/11/2024 10:03	WG2284218
Magnesium	181		0.0434	1.00	1	05/11/2024 10:03	WG2284218
Manganese	0.660		0.00557	0.0500	1	05/11/2024 10:03	WG2284218
Molybdenum	0.151		0.00760	0.0300	1	05/11/2024 10:03	WG2284218
Nickel	0.0168		0.00358	0.0100	1	05/11/2024 10:03	WG2284218
Selenium	<0.00500		0.00500	0.0200	1	05/11/2024 10:03	WG2284218
Silver	<0.000990		0.000990	0.00500	1	05/11/2024 10:03	WG2284218
Thallium	<0.00775		0.00775	0.0200	1	05/11/2024 10:03	WG2284218
Tin	<0.00240		0.00240	0.0250	1	05/11/2024 10:03	WG2284218
Titanium	<0.00835		0.00835	0.100	1	05/11/2024 10:03	WG2284218
Zinc	0.0377		0.0106	0.0250	1	05/11/2024 10:03	WG2284218

## Volatile Organic Compounds (GC/MS) by Method 624.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	<0.00335		0.00335	0.00500	1	05/10/2024 23:58	WG2284163
1,1,2,2-Tetrachloroethane	<0.000596		0.000596	0.00500	1	05/10/2024 23:58	WG2284163
1,1,2-Trichloroethane	<0.00145		0.00145	0.00500	1	05/10/2024 23:58	WG2284163
1,1-Dichloroethane	<0.00292		0.00292	0.00500	1	05/10/2024 23:58	WG2284163
1,1-Dichloroethene	<0.00367		0.00367	0.00500	1	05/10/2024 23:58	WG2284163
1,2-Dichlorobenzene	<0.00172		0.00172	0.00200	1	05/10/2024 23:58	WG2284163
1,2-Dichloroethane	<0.00195		0.00195	0.00500	1	05/10/2024 23:58	WG2284163
1,2-Dichloropropane	<0.000804		0.000804	0.00200	1	05/10/2024 23:58	WG2284163
1,3-Dichlorobenzene	<0.00419		0.00419	0.00500	1	05/10/2024 23:58	WG2284163
1,4-Dichlorobenzene	<0.00173		0.00173	0.00200	1	05/10/2024 23:58	WG2284163
2-Chloroethyl vinyl ether	<0.00652		0.00652	0.0100	1	05/10/2024 23:58	WG2284163
Acrolein	<0.00544		0.00544	0.0100	1	05/10/2024 23:58	WG2284163
Acrylonitrile	<0.00709		0.00709	0.0100	1	05/10/2024 23:58	WG2284163
Benzene	<0.00207		0.00207	0.00500	1	05/10/2024 23:58	WG2284163
Bromodichloromethane	<0.00179		0.00179	0.00200	1	05/10/2024 23:58	WG2284163
Bromoform	<0.000960		0.000960	0.0100	1	05/10/2024 23:58	WG2284163
Bromomethane	<0.00347		0.00347	0.00500	1	05/10/2024 23:58	WG2284163
Carbon tetrachloride	<0.00159		0.00159	0.00200	1	05/10/2024 23:58	WG2284163
Chlorobenzene	<0.00276		0.00276	0.0100	1	05/10/2024 23:58	WG2284163
Chloroethane	<0.00296		0.00296	0.00500	1	05/10/2024 23:58	WG2284163
Chloroform	<0.00212		0.00212	0.00500	1	05/10/2024 23:58	WG2284163
Chloromethane	<0.00361		0.00361	0.00500	1	05/10/2024 23:58	WG2284163
cis-1,2-Dichloroethene	<0.00113		0.00113	0.00500	1	05/10/2024 23:58	WG2284163
cis-1,3-Dichloropropene	<0.00492		0.00492	0.0100	1	05/10/2024 23:58	WG2284163



## R.O. DISCHARGE

Collected date/time: 05/07/24 08:15

## SAMPLE RESULTS - 01

L1733793

## Volatile Organic Compounds (GC/MS) by Method 624.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dibromochloromethane	<0.00327		0.00327	0.00500	1	05/10/2024 23:58	WG2284163
Ethylbenzene	<0.000401		0.000401	0.00200	1	05/10/2024 23:58	WG2284163
Methylene Chloride	<0.0117		0.0117	0.0200	1	05/10/2024 23:58	WG2284163
Tetrachloroethene	<0.00486		0.00486	0.0100	1	05/10/2024 23:58	WG2284163
Toluene	<0.00219		0.00219	0.00500	1	05/10/2024 23:58	WG2284163
Total 1,3-Dichloropropene	<0.00372		0.00372	0.0100	1	05/10/2024 23:58	WG2284163
trans-1,2-Dichloroethene	<0.00501		0.00501	0.0100	1	05/10/2024 23:58	WG2284163
trans-1,3-Dichloropropene	<0.00460		0.00460	0.00500	1	05/10/2024 23:58	WG2284163
Trichloroethene	<0.00262		0.00262	0.00500	1	05/10/2024 23:58	WG2284163
Vinyl chloride	<0.00466		0.00466	0.00500	1	05/10/2024 23:58	WG2284163
(S) 1,2-Dichloroethane-d4	107			70.0-130		05/10/2024 23:58	WG2284163
(S) 4-Bromofluorobenzene	104			70.0-130		05/10/2024 23:58	WG2284163
(S) Toluene-d8	101			70.0-130		05/10/2024 23:58	WG2284163

## Pesticides (GC) by Method EPA 608.3

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aldrin	<0.0000198		0.0000198	0.0000500	1	05/12/2024 17:18	WG2284804
Alpha BHC	<0.0000172		0.0000172	0.0000500	1	05/12/2024 17:18	WG2284804
Beta BHC	<0.0000208		0.0000208	0.0000500	1	05/12/2024 17:18	WG2284804
Delta BHC	<0.0000150		0.0000150	0.0000500	1	05/12/2024 17:18	WG2284804
Gamma BHC	<0.0000209		0.0000209	0.0000500	1	05/12/2024 17:18	WG2284804
Chlordane	<0.0000198		0.0000198	0.00500	1	05/12/2024 17:18	WG2284804
1,4-DDD	<0.0000177		0.0000177	0.0000500	1	05/12/2024 17:18	WG2284804
4,4-DDE	<0.0000154		0.0000154	0.0000500	1	05/12/2024 17:18	WG2284804
1,1-DDT	<0.0000198		0.0000198	0.0000500	1	05/12/2024 17:18	WG2284804
Dieldrin	<0.0000162		0.0000162	0.0000500	1	05/12/2024 17:18	WG2284804
Endosulfan I	<0.0000160		0.0000160	0.0000500	1	05/12/2024 17:18	WG2284804
Endosulfan II	<0.0000164		0.0000164	0.0000500	1	05/12/2024 17:18	WG2284804
Endosulfan sulfate	<0.0000217		0.0000217	0.0000500	1	05/12/2024 17:18	WG2284804
Endrin	<0.0000161		0.0000161	0.0000500	1	05/12/2024 17:18	WG2284804
Endrin aldehyde	<0.0000237		0.0000237	0.0000500	1	05/12/2024 17:18	WG2284804
Endrin ketone	<0.0000219		0.0000219	0.0000500	1	05/12/2024 17:18	WG2284804
Heptachlor	<0.0000148		0.0000148	0.0000500	1	05/12/2024 17:18	WG2284804
Heptachlor epoxide	<0.0000183		0.0000183	0.0000500	1	05/12/2024 17:18	WG2284804
Hexachlorobenzene	<0.0000176		0.0000176	0.0000500	1	05/12/2024 17:18	WG2284804
Methoxychlor	<0.0000193		0.0000193	0.0000500	1	05/12/2024 17:18	WG2284804
Toxaphene	<0.000168		0.000168	0.000500	1	05/12/2024 17:18	WG2284804
gamma-Chlordane	<0.0000137		0.0000137	0.0000500	1	05/12/2024 17:18	WG2284804
alpha-Chlordane	<0.0000149		0.0000149	0.0000500	1	05/12/2024 17:18	WG2284804
(S) Decachlorobiphenyl	77.5			10.0-144		05/12/2024 17:18	WG2284804
(S) Tetrachloro-m-xylene	77.4			10.0-135		05/12/2024 17:18	WG2284804

## Polychlorinated Biphenyls (GC) by Method EPA-608.3

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
PCB 1016	<0.000270		0.000270	0.000500	1	05/12/2024 17:18	WG2284804
PCB 1221	<0.000270		0.000270	0.000500	1	05/12/2024 17:18	WG2284804
PCB 1232	<0.000270		0.000270	0.000500	1	05/12/2024 17:18	WG2284804
PCB 1242	<0.000270		0.000270	0.000500	1	05/12/2024 17:18	WG2284804
PCB 1248	<0.000173		0.000173	0.000500	1	05/12/2024 17:18	WG2284804
PCB 1254	<0.000173		0.000173	0.000500	1	05/12/2024 17:18	WG2284804
PCB 1260	<0.000173		0.000173	0.000500	1	05/12/2024 17:18	WG2284804
Total PCBs	<0.000173		0.000173	0.000500	1	05/12/2024 17:18	WG2284804
(S) Decachlorobiphenyl	84.5			10.0-144		05/12/2024 17:18	WG2284804



## R.O. DISCHARGE

## SAMPLE RESULTS - 01

Collected date/time: 05/07/24 08:15

L1733793

## Polychlorinated Biphenyls (GC) by Method EPA-608.3

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) Tetrachloro-m-xylene	84.7			10.0-135		05/12/2024 17:18	WG2284804

## Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4,5-Tetrachlorobenzene	<0.00132		0.00132	0.00250	1	05/10/2024 19:19	WG2283837
1,2,4-Trichlorobenzene	<0.00159		0.00159	0.00250	1	05/10/2024 19:19	WG2283837
1,2-Dichlorobenzene	<0.00168		0.00168	0.00250	1	05/10/2024 19:19	WG2283837
1,3-Dichlorobenzene	<0.00170		0.00170	0.00250	1	05/10/2024 19:19	WG2283837
1,4-Dichlorobenzene	<0.00184		0.00184	0.00250	1	05/10/2024 19:19	WG2283837
2,2-Oxybis(1-Chloropropane)	<0.00116		0.00116	0.00250	1	05/10/2024 19:19	WG2283837
2,4,5-Trichlorophenol	<0.00193		0.00193	0.00250	1	05/10/2024 19:19	WG2283837
2,4,6-Trichlorophenol	<0.00179		0.00179	0.00250	1	05/10/2024 19:19	WG2283837
2,4-Dichlorophenol	<0.000820		0.000820	0.00250	1	05/10/2024 19:19	WG2283837
2,4-Dimethylphenol	<0.00142		0.00142	0.00500	1	05/10/2024 19:19	WG2283837
2,4-Dinitrophenol	<0.00115		0.00115	0.00500	1	05/10/2024 19:19	WG2283837
2,4-Dinitrotoluene	<0.00265		0.00265	0.00500	1	05/10/2024 19:19	WG2283837
2,6-Dichlorophenol	<0.00107		0.00107	0.00250	1	05/10/2024 19:19	WG2283837
2,6-Dinitrotoluene	<0.00181		0.00181	0.00500	1	05/10/2024 19:19	WG2283837
2-Chloronaphthalene	<0.00143		0.00143	0.00250	1	05/10/2024 19:19	WG2283837
2-Chlorophenol	<0.000820		0.000820	0.00250	1	05/10/2024 19:19	WG2283837
2-Methylphenol	<0.000760		0.000760	0.00500	1	05/10/2024 19:19	WG2283837
2-Nitrophenol	<0.00169		0.00169	0.00250	1	05/10/2024 19:19	WG2283837
3&4-Methyl Phenol	<0.000767		0.000767	0.00250	1	05/10/2024 19:19	WG2283837
3,3-Dichlorobenzidine	<0.00265		0.00265	0.00500	1	05/10/2024 19:19	WG2283837
4,6-Dinitro-2-methylphenol	<0.00150		0.00150	0.00500	1	05/10/2024 19:19	WG2283837
4-Bromophenyl-phenylether	<0.00104		0.00104	0.00250	1	05/10/2024 19:19	WG2283837
4-Chloro-3-methylphenol	<0.000865		0.000865	0.00250	1	05/10/2024 19:19	WG2283837
4-Chlorophenyl-phenylether	<0.00140		0.00140	0.00250	1	05/10/2024 19:19	WG2283837
4-Nitrophenol	<0.00164		0.00164	0.00500	1	05/10/2024 19:19	WG2283837
Acenaphthene	<0.00134		0.00134	0.00250	1	05/10/2024 19:19	WG2283837
Acenaphthylene	<0.00134		0.00134	0.00250	1	05/10/2024 19:19	WG2283837
Acetophenone	<0.000788		0.000788	0.00250	1	05/10/2024 19:19	WG2283837
Alpha-Terpineol	<0.000696		0.000696	0.00250	1	05/10/2024 19:19	WG2283837
Aniline	<0.000536		0.000536	0.00250	1	05/10/2024 19:19	WG2283837
Anthracene	<0.00111		0.00111	0.00250	1	05/10/2024 19:19	WG2283837
Atrazine	<0.00167		0.00167	0.00250	1	05/10/2024 19:19	WG2283837
Benzidine	<0.00311		0.00311	0.0100	1	05/10/2024 19:19	WG2283837
Benzo(a)anthracene	<0.000933		0.000933	0.00250	1	05/10/2024 19:19	WG2283837
Benzo(a)pyrene	<0.000941		0.000941	0.00250	1	05/10/2024 19:19	WG2283837
Benzo(b)fluoranthene	<0.00102		0.00102	0.00250	1	05/10/2024 19:19	WG2283837
Benzo(g,h,i)perylene	<0.00101		0.00101	0.00250	1	05/10/2024 19:19	WG2283837
Benzo(k)fluoranthene	<0.000934		0.000934	0.00250	1	05/10/2024 19:19	WG2283837
Benzoic acid	<0.00657		0.00657	0.0100	1	05/10/2024 19:19	WG2283837
Benzylbutyl phthalate	<0.00143		0.00143	0.00250	1	05/10/2024 19:19	WG2283837
Bis(2-chloroethoxy)methane	<0.000991		0.000991	0.00250	1	05/10/2024 19:19	WG2283837
Bis(2-chloroethyl)ether	<0.00101		0.00101	0.00250	1	05/10/2024 19:19	WG2283837
3is(2-chloroisopropyl)ether	<0.00116		0.00116	0.00250	1	05/10/2024 19:19	WG2283837
3is(2-Ethylhexyl)phthalate	<0.00318		0.00318	0.00500	1	05/10/2024 19:19	WG2283837
Carbazole	<0.00106		0.00106	0.00250	1	05/10/2024 19:19	WG2283837
Chrysene	<0.00102		0.00102	0.00250	1	05/10/2024 19:19	WG2283837
Di-n-butyl phthalate	<0.00120		0.00120	0.00250	1	05/10/2024 19:19	WG2283837
Di-n-octyl phthalate	<0.00174		0.00174	0.00250	1	05/10/2024 19:19	WG2283837
ibenz(a,h)anthracene	<0.00110		0.00110	0.00250	1	05/10/2024 19:19	WG2283837
ibenzofuran	<0.00120		0.00120	0.00250	1	05/10/2024 19:19	WG2283837
iethyl phthalate	<0.000915		0.000915	0.00250	1	05/10/2024 19:19	WG2283837

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1733793

DATE/TIME:

06/06/24 14:29

PAGE:

9 of 69

## R.O. DISCHARGE

## SAMPLE RESULTS - 01

Collected date/time: 05/07/24 08:15

L1733793

## Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dimethyl phthalate	<0.000878		0.000878	0.00250	1	05/10/2024 19:19	WG2283837
Fluoranthene	<0.00114		0.00114	0.00250	1	05/10/2024 19:19	WG2283837
Fluorene	<0.00131		0.00131	0.00250	1	05/10/2024 19:19	WG2283837
Hexachloro-1,3-butadiene	<0.00176		0.00176	0.00250	1	05/10/2024 19:19	WG2283837
Hexachlorobenzene	<0.000972		0.000972	0.00250	1	05/10/2024 19:19	WG2283837
Hexachlorocyclopentadiene	<0.00117		0.00117	0.0100	1	05/10/2024 19:19	WG2283837
Hexachloroethane	<0.00188		0.00188	0.00250	1	05/10/2024 19:19	WG2283837
1,2-Diphenylhydrazine	<0.00124	N2	0.00124	0.00250	1	05/10/2024 19:19	WG2283837
Indeno(1,2,3-cd)pyrene	<0.000984		0.000984	0.00250	1	05/10/2024 19:19	WG2283837
Isophorone	<0.00183		0.00183	0.00250	1	05/10/2024 19:19	WG2283837
n-Decane	<0.00158		0.00158	0.00250	1	05/10/2024 19:19	WG2283837
n-Nitrosodi-n-butylamine	<0.000735		0.000735	0.00250	1	05/10/2024 19:19	WG2283837
n-Nitrosodi-n-propylamine	<0.00107		0.00107	0.00250	1	05/10/2024 19:19	WG2283837
n-Nitrosodiethylamine	<0.000925		0.000925	0.00250	1	05/10/2024 19:19	WG2283837
n-Nitrosodimethylamine	<0.000651		0.000651	0.00250	1	05/10/2024 19:19	WG2283837
n-Nitrosodiphenylamine	<0.000829		0.000829	0.00250	1	05/10/2024 19:19	WG2283837
n-Octadecane	<0.00128		0.00128	0.00250	1	05/10/2024 19:19	WG2283837
Naphthalene	<0.00200		0.00200	0.00250	1	05/10/2024 19:19	WG2283837
Nitrobenzene	<0.00124		0.00124	0.00250	1	05/10/2024 19:19	WG2283837
Nonylphenol	<0.00286		0.00286	0.00500	1	05/10/2024 19:19	WG2283837
Pentachlorobenzene	<0.00134		0.00134	0.00250	1	05/10/2024 19:19	WG2283837
Pentachlorophenol	<0.00210		0.00210	0.00500	1	05/10/2024 19:19	WG2283837
Phenanthrene	<0.00113		0.00113	0.00250	1	05/10/2024 19:19	WG2283837
Phenol	<0.000967		0.000967	0.00250	1	05/10/2024 19:19	WG2283837
Pyrene	<0.00115		0.00115	0.00250	1	05/10/2024 19:19	WG2283837
Pyridine	<0.00117		0.00117	0.00250	1	05/10/2024 19:19	WG2283837
Total Cresols	<0.00153		0.00153	0.00750	1	05/10/2024 19:19	WG2283837
(S) 2,4,6-Tribromophenol	66.9			29.0-132		05/10/2024 19:19	WG2283837
(S) 2-Fluorobiphenyl	63.2			26.0-102		05/10/2024 19:19	WG2283837
(S) 2-Fluorophenol	25.0			10.0-66.0		05/10/2024 19:19	WG2283837
(S) Nitrobenzene-d5	60.7			15.0-106		05/10/2024 19:19	WG2283837
(S) p-Terphenyl-d14	73.9			10.0-120		05/10/2024 19:19	WG2283837
(S) Phenol-D6	17.7			10.0-54.0		05/10/2024 19:19	WG2283837





## Method Blank (MB)

(MB) R4069058-1 05/10/24 13:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Total Dissolved Solids	<25.0	25.0	25.0	25.0

## L1733793-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1733793-01 05/10/24 13:44 • (DUP) R4069058-3 05/10/24 13:44

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Dissolved Solids	11700	11400	1	2.08		10

## L1733948-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1733948-02 05/10/24 13:44 • (DUP) R4069058-4 05/10/24 13:44

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Dissolved Solids	4980	4840	1	2.85		10

## Laboratory Control Sample (LCS)

(LCS) R4069058-2 05/10/24 13:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Dissolved Solids	2410	2500	104	85.0-115	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1733793DATE/TIME:  
06/06/24 14:29PAGE:  
11 of 69

WG2284433

Gravimetric Analysis by Method 2540D

## QUALITY CONTROL SUMMARY

L1733793-01

### Method Blank (MB)

(MB) R4069233-1 05/11/24 05:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	<2.50		2.50	2.50

### L1733477-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1733477-03 05/11/24 05:48 • (DUP) R4069233-3 05/11/24 05:48

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	5880	5920	1	0.678		10

### L1733477-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1733477-04 05/11/24 05:48 • (DUP) R4069233-4 05/11/24 05:48

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	5560	5520	1	0.722		10

### Laboratory Control Sample (LCS)

(LCS) R4069233-2 05/11/24 05:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	928	887	95.6	85.0-115	

Method Blank (MB)

(MB) R4069557-1 05/14/24 08:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Oil & Grease (Hexane Extr)	<0.350		0.350	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4069557-2 05/14/24 08:10 • (LCSD) R4069557-3 05/14/24 08:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Oil & Grease (Hexane Extr)	40.0	35.0	37.2	87.5	93.0	78.0-114			6.09	18

L1734561-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1734561-01 05/14/24 08:10 • (MS) R4069557-4 05/14/24 08:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Oil & Grease (Hexane Extr)	40.0	<0.350	24.9	62.3	1	78.0-114	J6

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



WG2282775

Wet Chemistry by Method 2120B

Method Blank (MB)

(MB) R4067338-1 05/08/24 16:19

Analyte	MB Result units	MB Qualifier	MB MDL units	MB RDL units
Color	<5.00		5.00	5.00

Sample Narrative:

BLANK: 7.00

L1733793-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1733793-01 05/08/24 16:19 • (DUP) R4067338-2 05/08/24 16:19

Analyte	Original Result units	DUP Result units	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Color	5.00	5.00	1	0.000		20

Sample Narrative:

OS: 8.00

DUP: 8.00

QUALITY CONTROL SUMMARY

L1733793-01

Cp	Tc	Ss	Cn	Sr	Qc	Gl	Al	Sc
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ACCOUNT:

Holiday Beach WSC

PROJECT:

SDS:

L1733793

DATE/TIME:

05/05/24 14:29

PAGE:

14 of 69

Method Blank (MB)

(MB) R4068980-1 05/13/24 09:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	<20.0		20.0	20.0
Alkalinity,Bicarbonate	<20.0		20.0	20.0
Alkalinity,Carbonate	<20.0		20.0	20.0
Alkalinity,Hydroxide	<20.0		20.0	20.0
Phenolphthalein Alkalinity	<20.0		20.0	20.0

L1734441-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1734441-03 05/13/24 09:19 • (DUP) R4068980-3 05/13/24 09:19

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	178	178	1	0.000		20

L1734865-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1734865-02 05/13/24 09:19 • (DUP) R4068980-4 05/13/24 09:19

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	1040	1050	1	0.962		20

Laboratory Control Sample (LCS)

(LCS) R4068980-2 05/13/24 09:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	250	242	96.8	90.0-110	



WG2284769

Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY

L1733793-01

Method Blank (MB)

(MB) R4070904-1 05/14/24 20:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Bromide	<0.353		0.353	1.00
Chloride	<0.379		0.379	1.00
Fluoride	<0.0640		0.0640	0.150
Sulfate	<0.594		0.594	5.00

L1733819-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1733819-01 05/15/24 00:26 • (DUP) R4070904-3 05/15/24 00:43

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Bromide	<0.353	<0.353	1	0.000		15
Chloride	1.50	1.53	1	1.68		15
Fluoride	<0.0640	<0.0640	1	0.000		15
Sulfate	23.7	23.9	1	0.631		15

L1733838-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1733838-03 05/15/24 04:06 • (DUP) R4070904-6 05/15/24 04:23

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Bromide	<0.353	<0.353	1	0.000		15
Chloride	1.12	1.35	1	18.0	PI	15
Fluoride	0.0917	0.0833	1	9.60	J	15
Sulfate	7.62	7.67	1	0.603		15

Laboratory Control Sample (LCS)

(LCS) R4070904-2 05/14/24 20:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromide	40.0	37.5	93.8	90.0-110	
Chloride	40.0	39.0	97.5	90.0-110	
Fluoride	8.00	7.72	96.5	90.0-110	
Sulfate	40.0	39.0	97.6	90.0-110	



## L1733819-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1733819-01 05/15/24 00:26 • (MS) R4070904-4 05/15/24 01:00 • (MSD) R4070904-5 05/15/24 01:17

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Bromide	40.0	<0.353	38.2	37.5	95.4	93.7	1	80.0-120			1.77	15
Chloride	40.0	1.50	40.6	40.3	97.9	96.9	1	80.0-120			0.892	15
Fluoride	8.00	<0.0640	8.43	7.66	105	95.7	1	80.0-120			9.65	15
Sulfate	40.0	23.7	63.8	62.3	100	96.5	1	80.0-120			2.42	15

## L1733838-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1733838-03 05/15/24 04:06 • (MS) R4070904-7 05/15/24 04:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Bromide	40.0	<0.353	37.6	94.1	1	80.0-120	
Chloride	40.0	1.12	39.5	96.0	1	80.0-120	
Fluoride	8.00	0.0917	7.68	94.9	1	80.0-120	
Sulfate	40.0	7.62	46.7	97.8	1	80.0-120	

WG2283915

Wet Chemistry by Method 3500Cr-B

QUALITY CONTROL SUMMARY

L1733793-01

Method Blank (MB)

(MB) R4068328-1 05/10/24 15:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chromium, Hexavalent	<0.00200		0.00200	0.00300

Laboratory Control Sample (LCS)

(LCS) R4068328-2 05/10/24 15:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chromium, Hexavalent	0.200	0.206	103	85.0-115	

L1728777-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728777-01 05/10/24 15:39 • (MS) R4068328-3 05/10/24 15:39 • (MSD) R4068328-4 05/10/24 15:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium, Hexavalent	0.200	<0.00200	0.191	0.191	95.5	95.5	1	10.0-120		0.000	0.000	20

Sample Narrative:

OS: Sample preserved in lab within 24 hrs of collection time

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1733793

DATE/TIME:

06/06/24 14:29

PAGE:

18 of 69

## Method Blank (MB)

(MB) R4069654-1 05/14/24 19:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Kjeldahl Nitrogen, TKN	<0.140		0.140	0.250

## Laboratory Control Sample (LCS)

(LCS) R4069654-2 05/14/24 19:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Kjeldahl Nitrogen, TKN	4.00	4.08	102	90.0-110	

## L1733754-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1733754-01 05/14/24 20:03 • (MS) R4069654-3 05/14/24 20:30 • (MSD) R4069654-4 05/14/24 20:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	4.00	0.872	5.25	5.19	109	108	1	90.0-110			1.15	20

## L1733793-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1733793-01 05/14/24 20:04 • (MS) R4069654-5 05/14/24 20:33 • (MSD) R4069654-6 05/14/24 20:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	4.00	0.852	4.99	5.06	103	105	1	90.0-110			1.39	20

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1733793

DATE/TIME:

06/06/24 14:29

PAGE:

19 of 69



WG2282756

Wet Chemistry by Method 353.2

QUALITY CONTROL SUMMARY

L1733793-01

Method Blank (MB)

(MB) R4067541-1 05/08/24 21:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	<0.0300		0.0300	0.0500
Nitrite	<0.0300		0.0300	0.0500

Laboratory Control Sample (LCS)

(LCS) R4067541-2 05/08/24 21:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.70	108	90.0-110	
Nitrite	2.50	2.61	104	90.0-110	

L1733754-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1733754-01 05/08/24 21:08 • (MS) R4067541-3 05/08/24 21:19 • (MSD) R4067541-4 05/08/24 21:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	MSD Result mg/l	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	<0.0300	2.52	101	2.48	1	90.0-110			1.60	20
Nitrite	2.50	<0.0300	2.37	94.8	2.37	1	90.0-110			0.000	20

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1733793

DATE/TIME:

06/06/24 14:29

PAGE:

20 of 69

Method Blank (MB)

(MB) R4068639-1 05/10/24 15:40					
Analyte	MB Result	MB Qualifier	MB MDL	MB RDL	
Nitrate-Nitrite	mg/l	mg/l	mg/l	mg/l	
	<0.0300	0.0300	0.0300	0.0500	

Laboratory Control Sample (LCS)

(LCS) R4068639-2 05/10/24 15:41					
Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Nitrate-Nitrite	mg/l	mg/l	%	%	
	2.50	2.62	105	90.0-110	

L1733793-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1733793-01 05/10/24 15:52 • (MS) R4068639-3 05/10/24 16:01					
Analyte	Spike Amount	Original Result	MS Result	MS Rec.	MS Qualifier
Nitrate-Nitrite	mg/l	mg/l	mg/l	%	
	2.50	<0.0300	2.66	106	
				Dilution	Rec. Limits
				1	90.0-110

L1733793-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1733793-01 05/10/24 15:52 • (MS) R4068639-4 05/10/24 16:01					
Analyte	Spike Amount	Original Result	MS Result	MS Rec.	MS Qualifier
Nitrate-Nitrite	mg/l	mg/l	mg/l	%	
	2.50	<0.0300	2.67	107	
				Dilution	Rec. Limits
				1	90.0-110

L1733795-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1733795-02 05/10/24 16:04 • (MS) R4068639-5 05/10/24 16:02					
Analyte	Spike Amount	Original Result	MS Result	MS Rec.	MS Qualifier
Nitrate-Nitrite	mg/l	mg/l	mg/l	%	
	25.0	8.87	36.4	110	
				Dilution	Rec. Limits
				10	90.0-110

L1733795-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1733795-02 05/10/24 16:04 • (MS) R4068639-6 05/10/24 16:03					
Analyte	Spike Amount	Original Result	MS Result	MS Rec.	MS Qualifier
Nitrate-Nitrite	mg/l	mg/l	mg/l	%	
	25.0	8.87	36.4	110	
				Dilution	Rec. Limits
				10	90.0-110

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

WG2282407

Wet Chemistry by Method 4500CN-E

QUALITY CONTROL SUMMARY

L1733793-01

Method Blank (MB)

(MB) R4067922-1 05/09/24 17:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	<0.00430		0.00430	0.0100

Laboratory Control Sample (LCS)

(LCS) R4067922-2 05/09/24 17:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %
Cyanide	0.100	0.0969	96.9	85.0-115

L1733451-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1733451-01 05/09/24 17:33 • (MS) R4067922-3 05/09/24 17:33 • (MSD) R4067922-4 05/09/24 17:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	<0.00430	<0.00430	<0.00430	0.000	0.000	1	85.0-115	J6	J6	0.000	20

L1733940-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1733940-01 05/09/24 17:33 • (MS) R4067922-5 05/09/24 17:33 • (MSD) R4067922-6 05/09/24 17:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	<0.00430	0.0652	0.100	65.2	100	1	85.0-115	J6	J3	42.5	20

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc



Method Blank (MB)

(MB) R4069227-1 05/13/24 18:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phosphorus, Total	<0.0152	0.0152	0.0152	0.0500

Laboratory Control Sample (LCS)

(LCS) R4069227-2 05/13/24 18:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phosphorus, Total	0.500	0.483	96.5	80.0-120	

L1733962-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1733962-02 05/13/24 18:54 • (MS) R4069227-3 05/13/24 18:55 • (MSD) R4069227-4 05/13/24 18:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Phosphorus, Total	0.500	<0.0152	0.484	0.481	96.7	96.3	1	80.0-120			0.471	20

L1734416-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1734416-02 05/13/24 18:54 • (MS) R4069227-5 05/13/24 18:55 • (MSD) R4069227-6 05/13/24 18:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Phosphorus, Total	0.500	0.0745	0.547	0.544	94.6	93.9	1	80.0-120			0.625	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WG2282700

Wet Chemistry by Method 4500-S2 D

## QUALITY CONTROL SUMMARY

L1733793-01

### Method Blank (MB)

(MB) R4067544-1 05/08/24 18:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Sulfide	<0.0230		0.0230	0.100

### Laboratory Control Sample (LCS)

(LCS) R4067544-2 05/08/24 18:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfide	0.800	0.847	106	80.0-120	

### L1733754-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1733754-01 05/08/24 18:37 • (MS) R4067544-3 05/08/24 18:37 • (MSD) R4067544-4 05/08/24 18:37

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfide	0.800	<0.0230	0.301	0.322	37.6	40.3	1	80.0-120	J6	J6	6.87	20

### L1733793-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1733793-01 05/08/24 18:37 • (MS) R4067544-5 05/08/24 18:37 • (MSD) R4067544-6 05/08/24 18:37

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfide	0.800	<0.0230	0.272	0.301	34.0	37.6	1	80.0-120	J6	J6	10.1	20

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1733793

DATE/TIME:  
06/06/24 14:29

PAGE:  
24 of 69

Method Blank (MB)

(MB) R4068806-1 05/13/24 09:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
BOD	<0.200		0.200	0.200

L1733676-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1733676-01 05/13/24 09:44 • (DUP) R4068806-3 05/13/24 10:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
BOD	1.21	1.13	1	6.84		20

L1733800-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1733800-01 05/13/24 10:05 • (DUP) R4068806-4 05/13/24 10:25

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
BOD	4.12	4.38	1	6.12		20

Laboratory Control Sample (LCS)

(LCS) R4068806-2 05/13/24 09:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
BOD	198	197	99.6	85-115	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



WG2282376

Wet Chemistry by Method 5210 B-2016

# QUALITY CONTROL SUMMARY

L1733793-01

## Method Blank (MB)

(MB) R4068874-1 05/13/24 10:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
CBOD	<0.200		0.200	0.200

## L1733908-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1733908-02 05/13/24 11:34 • (DUP) R4068874-3 05/13/24 11:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
CBOD	1.28	1.23	1	3.98		20

## L1733916-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1733916-02 05/13/24 11:52 • (DUP) R4068874-4 05/13/24 11:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
CBOD	2.03	1.26	1	46.8	PI	20

## Laboratory Control Sample (LCS)

(LCS) R4068874-2 05/13/24 10:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
CBOD	198	190	96	85-115	

Wet Chemistry by Method 5220D

Method Blank (MB)

(MB) R4067937-1 05/09/24 18:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
COD	<16.1		16.1	35.0

Laboratory Control Sample (LCS)

(LCS) R4067937-2 05/09/24 18:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
COD	500	496	99.2	80.0-120	

L1733089-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1733089-01 05/09/24 18:13 • (MS) R4067937-3 05/09/24 18:13 • (MSD) R4067937-4 05/09/24 18:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
COD	500	83.9	565	575	96.1	98.3	1	80.0-120			1.88	20

L1733997-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1733997-01 05/09/24 18:13 • (MS) R4067937-5 05/09/24 18:13 • (MSD) R4067937-6 05/09/24 18:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
COD	500	47.4	511	522	92.7	94.9	1	80.0-120			2.08	20

ACCOUNT:  
Holiday Beach WSC

SDG:  
L1733793

DATE/TIME:  
06/06/24 14:29

PAGE:  
27 of 69



WG2284147

Wet Chemistry by Method 5310C

## QUALITY CONTROL SUMMARY

L1733793-01

### Method Blank (MB)

(MB) R4068943-1 05/10/24 17:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TOC (Total Organic Carbon)	<0.270		0.270	0.700

### Laboratory Control Sample (LCS)

(LCS) R4068943-2 05/10/24 17:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	10.0	10.4	104	90.0-110	

### L1733503-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1733503-01 05/10/24 19:40 • (MS) R4068943-3 05/10/24 18:56 • (MSD) R4068943-4 05/10/24 19:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	10.0	4.51	15.2	15.2	107	107	1	80.0-120			0.197	20



ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1733793

DATE/TIME:  
06/06/24 14:29

PAGE:  
28 of 69



Method Blank (MB)

(MB) R4067547-1 05/08/24 20:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
MBAS	<0.360		0.360	0.500

Laboratory Control Sample (LCS)

(LCS) R4067547-2 05/08/24 20:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
MBAS	1.00	1.18	118	80.0-120	

L1733793-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1733793-01 05/08/24 20:28 • (MS) R4067547-3 05/08/24 20:28 • (MSD) R4067547-4 05/08/24 20:28

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
MBAS	1.00	<0.360	1.23	1.25	123	125	1	80.0-120	J5	J5	2.04	20

WG2285806

Wet Chemistry by Method SM 4500-H+B

QUALITY CONTROL SUMMARY

L1733793-01

L1731428-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1731428-03 05/14/24 08:26 • (DUP) R4069344-2 05/14/24 08:26

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
pH	8.04	7.94	1	1.25		20

Sample Narrative:

OS: 8.04 at 20.1C  
DUP: 7.94 at 21.4C

L1731489-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1731489-01 05/14/24 08:26 • (DUP) R4069344-3 05/14/24 08:26

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
pH	8.08	8.03	1	0.621		20

Sample Narrative:

OS: 8.08 at 21.2C  
DUP: 8.03 at 21.7C

Laboratory Control Sample (LCS)

(LCS) R4069344-1 05/14/24 08:26

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
pH	6.00	6.03	101	99.0-101	

Sample Narrative:

LCS: 6.03 at 22C

Method Blank (MB)

(MB) R4069145-1 05/13/24 16:10					
Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l	
Ammonia Nitrogen	<0.0280		0.0280	0.100	

Laboratory Control Sample (LCS)

(LCS) R4069145-2 05/13/24 16:12					
Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	5.00	5.08	102	80.0-120	

L1733249-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1733249-02 05/13/24 16:23 • (MS) R4069145-3 05/13/24 16:14 • (MSD) R4069145-4 05/13/24 16:16											
Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD Limits %
Ammonia Nitrogen	5.00	1.57	6.45	6.44	97.6	97.4	1	80.0-120	0.155		20

L1733320-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1733320-01 05/13/24 16:26 • (MS) R4069145-5 05/13/24 16:17 • (MSD) R4069145-6 05/13/24 16:19											
Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD Limits %
Ammonia Nitrogen	5.00	8.47	13.5	13.4	101	98.6	1	80.0-120	E	E	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



WG2284218

Metals (ICP) by Method 200.7

Method Blank (MB)

(MB) R4068533-1 05/11/24 09:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aluminum	<0.0353		0.0353	0.500
Antimony	<0.00242		0.00242	0.0250
Arsenic	<0.00418		0.00418	0.0200
Barium	<0.000490		0.000490	0.0100
Beryllium	<0.000180		0.000180	0.00100
Boron	<0.0186		0.0186	0.100
Cadmium	<0.000350		0.000350	0.00500
Chromium	<0.000710		0.000710	0.00700
Cobalt	<0.000680		0.000680	0.00250
Copper	<0.00364		0.00364	0.0200
Iron	<0.0303		0.0303	0.500
Lead	<0.00312		0.00312	0.0100
Magnesium	<0.0434		0.0434	1.00
Manganese	<0.00557		0.00557	0.0500
Molybdenum	<0.00760		0.00760	0.0300
Nickel	<0.00358		0.00358	0.0100
Selenium	<0.00500		0.00500	0.0200
Silver	<0.000990		0.000990	0.00500
Thallium	<0.00775		0.00775	0.0200
Tin	<0.00240		0.00240	0.0250
Titanium	<0.00835		0.00835	0.100
Zinc	<0.0106		0.0106	0.0250

Laboratory Control Sample (LCS)

(LCS) R4068533-2 05/11/24 09:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum	10.0	10.3	103	85.0-115	
Antimony	1.00	1.02	102	85.0-115	
Arsenic	1.00	1.01	101	85.0-115	
Barium	1.00	1.02	102	85.0-115	
Beryllium	1.00	1.04	104	85.0-115	
Boron	1.00	0.989	98.9	85.0-115	
Cadmium	1.00	1.02	102	85.0-115	
Chromium	1.00	1.03	103	85.0-115	
Cobalt	1.00	1.06	106	85.0-115	
Copper	1.00	1.04	104	85.0-115	
Iron	10.0	10.4	104	85.0-115	

ACCOUNT:  
Holiday Beach WSC

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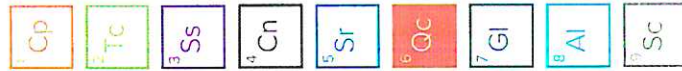
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L1733793

DATE/TIME:  
06/06/24 14:29

PAGE:  
32 of 69

QUALITY CONTROL SUMMARY

L1733793-01



Laboratory Control Sample (LCS)

(LCS) R4068533-2 05/11/24 09:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	1.00	1.05	105	85.0-115	
Magnesium	10.0	10.3	103	85.0-115	
Manganese	1.00	1.07	107	85.0-115	
Molybdenum	1.00	1.02	102	85.0-115	
Nickel	1.00	1.05	105	85.0-115	
Selenium	1.00	1.01	101	85.0-115	
Silver	0.500	0.489	97.7	85.0-115	
Thallium	1.00	1.07	107	85.0-115	
Tin	1.00	1.03	103	85.0-115	
Titanium	1.00	1.01	101	85.0-115	
Zinc	1.00	1.04	104	85.0-115	

L1734514-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1734514-01 05/11/24 10:51 • (MS) R4068533-3 05/11/24 11:31 • (MSD) R4068533-4 05/11/24 11:35

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	10.0	0.616	10.9	11.1	102	105	1	70.0-130			1.92	20
Antimony	1.00	<0.00242	102	105	102	105	1	70.0-130			2.22	20
Arsenic	1.00	<0.00418	102	104	102	104	1	70.0-130			2.03	20
Barium	1.00	0.0468	106	108	101	104	1	70.0-130			2.34	20
Beryllium	1.00	<0.000180	104	106	104	106	1	70.0-130			1.52	20
Boron	1.00	0.0367	103	105	99.1	101	1	70.0-130			1.74	20
Cadmium	1.00	<0.000350	102	105	102	105	1	70.0-130			2.03	20
Chromium	1.00	0.0107	104	106	103	105	1	70.0-130			1.91	20
Cobalt	1.00	<0.000680	106	108	106	108	1	70.0-130			1.97	20
Copper	1.00	<0.00364	104	106	104	106	1	70.0-130			1.72	20
Iron	10.0	0.128	10.5	10.7	104	106	1	70.0-130			1.79	20
Lead	1.00	<0.00312	103	105	103	105	1	70.0-130			2.02	20
Magnesium	10.0	0.687	10.8	11.0	101	103	1	70.0-130			2.30	20
Manganese	1.00	0.00682	107	109	106	108	1	70.0-130			1.76	20
Molybdenum	1.00	<0.00760	0.970	1.00	97.0	100	1	70.0-130			3.06	20
Nickel	1.00	<0.00358	103	105	103	105	1	70.0-130			1.92	20
Selenium	1.00	<0.00500	102	104	102	104	1	70.0-130			2.05	20
Silver	0.500	<0.000990	0.493	0.503	98.6	101	1	70.0-130			1.95	20
Thallium	1.00	<0.00775	104	106	104	106	1	70.0-130			2.28	20
Tin	1.00	<0.00240	102	104	102	104	1	70.0-130			2.03	20
Titanium	1.00	0.0288	104	106	101	103	1	70.0-130			1.71	20
Zinc	1.00	<0.0106	104	106	104	106	1	70.0-130			2.00	20

WG2284218

Metals (ICP) by Method 200.7

QUALITY CONTROL SUMMARY

L1733793-01

L1734611-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1734611-01 05/11/24 10:55 • (MS) R4068533-5 05/11/24 11:38 • (MSD) R4068533-6 05/11/24 11:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	10.0	0.0537	10.3	10.2	102	101	1	70.0-130			0.781	20
Antimony	1.00	<0.00242	1.05	1.04	105	104	1	70.0-130			1.44	20
Arsenic	1.00	<0.00418	1.06	1.04	106	104	1	70.0-130			1.62	20
Barium	1.00	0.167	1.18	1.17	102	101	1	70.0-130			0.934	20
Beryllium	1.00	<0.000180	1.05	1.04	105	104	1	70.0-130			1.24	20
Boron	1.00	3.84	4.88	4.79	104	95.1	1	70.0-130			1.84	20
Cadmium	1.00	<0.000350	1.05	1.04	105	104	1	70.0-130			1.25	20
Chromium	1.00	0.00626	1.03	1.02	102	101	1	70.0-130			0.977	20
Cobalt	1.00	0.00723	1.08	1.06	107	105	1	70.0-130			1.40	20
Copper	1.00	0.235	1.28	1.27	104	103	1	70.0-130			0.707	20
Iron	10.0	9.22	19.5	19.2	102	100	1	70.0-130			1.19	20
Lead	1.00	<0.00312	1.03	1.02	103	102	1	70.0-130			1.46	20
Magnesium	10.0	7.45	17.6	17.5	101	100	1	70.0-130			0.456	20
Manganese	1.00	1.39	2.45	2.39	106	101	1	70.0-130			2.15	20
Molybdenum	1.00	<0.00760	0.974	0.965	97.4	96.5	1	70.0-130			0.928	20
Nickel	1.00	0.0470	1.09	1.08	104	103	1	70.0-130			1.39	20
Selenium	1.00	<0.00500	1.05	1.03	105	103	1	70.0-130			2.02	20
Silver	0.500	0.00171	0.501	0.496	99.8	98.8	1	70.0-130			1.06	20
Thallium	1.00	<0.00775	1.03	1.02	103	102	1	70.0-130			1.07	20
Tin	1.00	<0.00240	1.03	1.02	103	102	1	70.0-130			1.17	20
Titanium	1.00	<0.00835	1.03	1.01	103	101	1	70.0-130			1.67	20
Zinc	1.00	0.0815	1.13	1.11	105	103	1	70.0-130			1.25	20



## Method Blank (MB)

(MB) R4068891-2 05/10/24 19:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,1-Trichloroethane	<0.00335		0.00335	0.00500
1,1,2,2-Tetrachloroethane	<0.000596		0.000596	0.00500
1,1,2-Trichloroethane	<0.00145		0.00145	0.00500
1,1-Dichloroethane	<0.00292		0.00292	0.00500
1,1-Dichloroethene	<0.00367		0.00367	0.00500
1,2-Dichlorobenzene	<0.00172		0.00172	0.00200
1,2-Dichloroethane	<0.00195		0.00195	0.00500
1,2-Dichloropropane	<0.000804		0.000804	0.00200
1,3-Dichlorobenzene	<0.00419		0.00419	0.00500
1,4-Dichlorobenzene	<0.00173		0.00173	0.00200
2-Chloroethyl vinyl ether	<0.00652		0.00652	0.0100
Acrolein	<0.00544		0.00544	0.0100
Acrylonitrile	<0.00709		0.00709	0.0100
Benzene	<0.00207		0.00207	0.00500
Bromodichloromethane	<0.00179		0.00179	0.00200
Bromoform	<0.000960		0.000960	0.0100
Bromomethane	<0.00347		0.00347	0.00500
Carbon tetrachloride	<0.00159		0.00159	0.00200
Chlorobenzene	<0.00276		0.00276	0.0100
Chloroethane	<0.00296		0.00296	0.00500
Chloroform	<0.00212		0.00212	0.00500
Chloromethane	<0.00361		0.00361	0.00500
cis-1,2-Dichloroethene	<0.00113		0.00113	0.00500
cis-1,3-Dichloropropene	<0.00492		0.00492	0.0100
Dibromochloromethane	<0.00327		0.00327	0.00500
Ethylbenzene	<0.000401		0.000401	0.00200
Methylene Chloride	<0.0118		0.0118	0.0200
Tetrachloroethene	<0.00486		0.00486	0.0100
Toluene	<0.00219		0.00219	0.00500
Total 1,3-Dichloropropene	<0.00372		0.00372	0.0100
trans-1,2-Dichloroethene	<0.00501		0.00501	0.0100
trans-1,3-Dichloropropene	<0.00460		0.00460	0.00500
Trichloroethene	<0.00262		0.00262	0.00500
Vinyl chloride	<0.00466		0.00466	0.00500
(S) 1,2-Dichloroethane-d4	100			70.0-130
(S) 4-Bromofluorobenzene	105			70.0-130
(S) Toluene-d8	101			70.0-130

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1733793DATE/TIME:  
06/06/24 14:29PAGE:  
35 of 69

WG2284163

Volatile Organic Compounds (GC/MS) by Method 624.1

## Laboratory Control Sample (LCS)

(LCS) R4068891-1 05/10/24 18:14

## QUALITY CONTROL SUMMARY

L1733793-01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,1,1-Trichloroethane	0.0200	0.0216	108	70.0-130	
1,1,2,2-Tetrachloroethane	0.0200	0.0228	114	60.0-140	
1,1,2-Trichloroethane	0.0200	0.0226	113	70.0-130	
1,1-Dichloroethane	0.0200	0.0214	107	70.0-130	
1,1-Dichloroethene	0.0200	0.0212	106	50.0-150	
1,2-Dichlorobenzene	0.0200	0.0220	110	65.0-135	
1,2-Dichloroethane	0.0200	0.0219	110	70.0-130	
1,2-Dichloropropane	0.0200	0.0224	112	35.0-165	
1,3-Dichlorobenzene	0.0200	0.0212	106	70.0-130	
1,4-Dichlorobenzene	0.0200	0.0208	104	65.0-135	
2-Chloroethyl vinyl ether	0.100	0.101	101	1.00-225	
Acrolein	0.100	0.105	105	64.0-139	
Acrylonitrile	0.100	0.109	109	67.0-136	
Benzene	0.0200	0.0223	112	65.0-135	
Bromodichloromethane	0.0200	0.0219	110	65.0-135	
Bromoform	0.0200	0.0219	110	70.0-130	
Bromomethane	0.0200	0.0227	114	15.0-185	
Carbon tetrachloride	0.0200	0.0219	110	70.0-130	
Chlorobenzene	0.0200	0.0213	106	65.0-135	
Chloroethane	0.0200	0.0205	103	40.0-160	
Chloroform	0.0200	0.0215	108	70.0-135	
Chloromethane	0.0200	0.0217	109	1.00-205	
cis-1,2-Dichloroethene	0.0200	0.0218	109	70.0-130	
cis-1,3-Dichloropropene	0.0200	0.0202	101	25.0-175	
Dibromochloromethane	0.0200	0.0224	112	70.0-135	
Ethylbenzene	0.0200	0.0217	109	60.0-140	
Methylene Chloride	0.0200	0.0203	102	60.0-140	
Tetrachloroethene	0.0200	0.0214	107	70.0-130	
Toluene	0.0200	0.0219	110	70.0-130	
Total 1,3-Dichloropropene	0.0401	0.0411	102	70.0-130	
trans-1,2-Dichloroethene	0.0200	0.0209	105	70.0-130	
trans-1,3-Dichloropropene	0.0200	0.0209	105	50.0-150	
Trichloroethene	0.0200	0.0221	111	65.0-135	
Vinyl chloride	0.0200	0.0208	104	5.00-195	
(S) 1,2-Dichloroethane-d4			102	70.0-130	
(S) 4-Bromofluorobenzene			98.0	70.0-130	
(S) Toluene-d8			101	70.0-130	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1733793DATE/TIME:  
06/06/24 14:29PAGE:  
36 of 69

## QUALITY CONTROL SUMMARY

Volatile Organic Compounds (GC/MS) by Method 624.1

L1733793-01

## L1733507-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1733507-02 05/10/24 20:17 • (MS) R4068891-3 05/10/24 20:42 • (MSD) R4068891-4 05/10/24 21:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,1,1-Trichloroethane	0.0199	<0.00335	0.0218	0.0215	110	108	1	52.0-162			1.39	36
1,1,2,2-Tetrachloroethane	0.0201	<0.000596	0.0147	0.0142	73.1	70.6	1	46.0-157			3.46	61
1,1,2-Trichloroethane	0.0199	<0.00145	0.0208	0.0213	105	107	1	52.0-150			2.38	45
1,1-Dichloroethane	0.0200	<0.00292	0.0214	0.0213	107	106	1	59.0-155			0.468	40
1,1-Dichloroethene	0.0198	<0.00367	0.0228	0.0226	115	114	1	1.00-234			0.881	32
1,2-Dichlorobenzene	0.0200	<0.00172	0.0223	0.0227	112	114	1	18.0-190			1.78	57
1,2-Dichloroethane	0.0199	<0.00195	0.0217	0.0218	109	110	1	49.0-155			0.460	49
1,2-Dichloropropane	0.0199	<0.000804	0.0219	0.0219	110	110	1	1.00-210			0.000	55
1,3-Dichlorobenzene	0.0199	<0.00419	0.0222	0.0228	112	115	1	59.0-156			2.67	43
1,4-Dichlorobenzene	0.0200	<0.00173	0.0216	0.0221	108	111	1	18.0-190			2.29	57
2-Chloroethyl vinyl ether	0.100	<0.00652	0.0947	0.0902	94.7	90.2	1	1.00-305			4.87	71
Acrolein	0.100	<0.00544	<0.00544	<0.00544	0.000	0.000	1	4.00-172	J6	J6	0.000	20
Acrylonitrile	0.100	<0.00709	0.100	0.102	100	102	1	22.0-189			1.98	20
Benzene	0.0200	<0.00207	0.0221	0.0222	111	111	1	37.0-151			0.451	61
Bromodichloromethane	0.0199	0.00643	0.0292	0.0302	114	119	1	35.0-155			3.37	56
Bromoform	0.0198	<0.000960	0.0213	0.0216	108	109	1	70.0-130			1.40	42
Bromomethane	0.0200	<0.00347	0.0198	0.0200	99.0	100	1	15.0-185			1.01	61
Carbon tetrachloride	0.0199	<0.00159	0.0219	0.0215	110	108	1	70.0-140			1.84	41
Chlorobenzene	0.0198	<0.00276	0.0215	0.0216	109	109	1	37.0-160			0.464	53
Chloroethane	0.0200	<0.00296	0.0200	0.0199	100	99.5	1	14.0-230			0.501	78
Chloroform	0.0198	<0.00986	0.0322	0.0322	113	113	1	51.0-138			0.000	54
Chloromethane	0.0200	<0.00361	0.0221	0.0206	111	103	1	1.00-273			7.03	20
cis-1,2-Dichloroethene	0.0200	<0.00113	0.0218	0.0217	109	109	1	70.0-130			0.460	20
cis-1,3-Dichloropropene	0.0200	<0.00492	0.0196	0.0199	98.0	99.5	1	1.00-227			1.52	58
Dibromochloromethane	0.0198	0.00340	0.0262	0.0267	115	118	1	53.0-149			1.89	50
Ethylbenzene	0.0200	<0.000401	0.0222	0.0224	111	112	1	37.0-162			0.897	63
Methylene Chloride	0.0204	<0.0118	0.0190	0.0196	93.1	96.1	1	1.00-221			3.11	28
Tetrachloroethene	0.0199	<0.00486	0.0221	0.0227	111	114	1	64.0-148			2.68	39
Toluene	0.0200	<0.00219	0.0217	0.0219	109	110	1	47.0-150			0.917	41
Total 1,3-Dichloropropene	0.0401	<0.00372	0.0398	0.0401	99.3	100	1	70.0-130			0.751	20
trans-1,2-Dichloroethene	0.0200	<0.00501	0.0213	0.0210	106	105	1	54.0-156			1.42	45
trans-1,3-Dichloropropene	0.0201	<0.00460	0.0202	0.0202	100	100	1	17.0-183			0.000	86
Trichloroethene	0.0200	<0.00262	0.0280	0.0281	140	141	1	70.0-157			0.357	48
Vinyl chloride	0.0200	<0.00466	0.0224	0.0217	112	109	1	1.00-251			3.17	66
(S) 1,2-Dichloroethane-d4					98.8	101		70.0-130				
(S) 4-Bromofluorobenzene					97.9	98.3		70.0-130				
(S) Toluene-d8					98.8	99.9		70.0-130				

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1733793DATE/TIME:  
06/06/24 14:29PAGE:  
37 of 69



WG2284804

Pesticides (GC) by Method EPA 608.3

# QUALITY CONTROL SUMMARY

L1733793-01

## Method Blank (MB)

(MB) R4069003-1 05/12/24 16:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aldrin	<0.0000198		0.0000198	0.0000500
Alpha BHC	<0.0000172		0.0000172	0.0000500
Beta BHC	<0.0000208		0.0000208	0.0000500
Delta BHC	<0.0000150		0.0000150	0.0000500
Gamma BHC	<0.0000209		0.0000209	0.0000500
Chlordane	<0.0000198		0.0000198	0.00500
4,4-DDD	<0.0000177		0.0000177	0.0000500
4,4-DDE	<0.0000154		0.0000154	0.0000500
4,4-DDT	<0.0000198		0.0000198	0.0000500
Dieldrin	<0.0000162		0.0000162	0.0000500
Endosulfan I	<0.0000160		0.0000160	0.0000500
Endosulfan II	<0.0000164		0.0000164	0.0000500
Endosulfan sulfate	<0.0000217		0.0000217	0.0000500
Endrin	<0.0000161		0.0000161	0.0000500
Endrin aldehyde	<0.0000237		0.0000237	0.0000500
Endrin ketone	<0.0000219		0.0000219	0.0000500
Heptachlor	<0.0000148		0.0000148	0.0000500
Heptachlor epoxide	<0.0000183		0.0000183	0.0000500
Hexachlorobenzene	<0.0000176		0.0000176	0.0000500
Methoxychlor	<0.0000193		0.0000193	0.0000500
Toxaphene	<0.000168		0.000168	0.000500
gamma-Chlordane	<0.0000137		0.0000137	0.0000500
alpha-Chlordane	<0.0000149		0.0000149	0.0000500
(S) Decachlorobiphenyl	36.4			10.0-144
(S) Tetrachloro-m-xylene	76.0			10.0-135

## Laboratory Control Sample (LCS)

(LCS) R4069003-2 05/12/24 17:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aldrin	0.00100	0.000655	65.5	42.0-140	
Alpha BHC	0.00100	0.000754	75.4	37.0-140	
Beta BHC	0.00100	0.000813	81.3	17.0-147	
Delta BHC	0.00100	0.000740	74.0	19.0-140	
Gamma BHC	0.00100	0.000776	77.6	32.0-140	
4,4-DDD	0.00100	0.000695	69.5	31.0-141	
4,4-DDE	0.00100	0.000592	59.2	30.0-145	
4,4-DDT	0.00100	0.000591	59.1	25.0-160	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1733793

DATE/TIME:  
06/06/24 14:29

PAGE:  
38 of 69

Laboratory Control Sample (LCS)

(LCS) R4069003-2 05/12/24 17:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dieldrin	0.00100	0.000757	75.7	36.0-146	
Endosulfan I	0.00100	0.000757	75.7	45.0-153	
Endosulfan II	0.00100	0.000797	79.7	1.00-202	
Endosulfan sulfate	0.00100	0.000757	75.7	26.0-144	
Endrin	0.00100	0.000777	77.7	30.0-147	
Endrin aldehyde	0.00100	0.000741	74.1	56.0-128	
Endrin ketone	0.00100	0.000812	81.2	54.0-142	
Heptachlor	0.00100	0.000706	70.6	34.0-140	
Heptachlor epoxide	0.00100	0.000764	76.4	37.0-142	
Hexachlorobenzene	0.00100	0.000763	76.3	35.0-120	
Methoxychlor	0.00100	0.000732	73.2	44.0-160	
gamma-Chlordane	0.00100	0.000686	68.6	45.0-140	
alpha-Chlordane	0.00100	0.000682	68.2	45.0-140	
(S) Decachlorobiphenyl			32.2	10.0-144	
(S) Tetrachloro-m-xylene			65.1	10.0-135	

L1733793-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1733793-01 05/12/24 17:18 • (MS) R4069003-3 05/12/24 17:26 • (MSD) R4069003-4 05/12/24 17:35

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.00100	<0.0000198	0.000844	0.000765	84.4	76.5	1	42.0-140			9.82	35
Alpha BHC	0.00100	<0.0000172	0.000823	0.000752	82.3	75.2	1	37.0-140			9.02	36
Beta BHC	0.00100	<0.0000208	0.000868	0.000793	86.8	79.3	1	17.0-147			9.03	44
Delta BHC	0.00100	<0.0000150	0.000816	0.000732	81.6	73.2	1	19.0-140			10.9	52
Gamma BHC	0.00100	<0.0000209	0.000842	0.000764	84.2	76.4	1	32.0-140			9.71	39
4,4-DDD	0.00100	<0.0000177	0.000835	0.000773	83.5	77.3	1	31.0-141			7.71	39
4,4-DDE	0.00100	<0.0000154	0.000835	0.000757	83.5	75.7	1	30.0-145			9.80	35
4,4-DDT	0.00100	<0.0000198	0.000836	0.000779	83.6	77.9	1	25.0-160			7.06	42
Dieldrin	0.00100	<0.0000162	0.000857	0.000781	85.7	78.1	1	36.0-146			9.28	49
Endosulfan I	0.00100	<0.0000160	0.000847	0.000761	84.7	76.1	1	45.0-153			10.7	28
Endosulfan II	0.00100	<0.0000164	0.000855	0.000781	85.5	78.1	1	1.00-202			9.05	53
Endosulfan sulfate	0.00100	<0.0000217	0.000820	0.000751	82.0	75.1	1	26.0-144			8.78	38
Endrin	0.00100	<0.0000161	0.000879	0.000814	87.9	81.4	1	30.0-147			7.68	48
Endrin aldehyde	0.00100	<0.0000237	0.000794	0.000731	79.4	73.1	1	56.0-128			8.26	20
Endrin ketone	0.00100	<0.0000219	0.000872	0.000801	87.2	80.1	1	54.0-142			8.49	20
Heptachlor	0.00100	<0.0000148	0.000860	0.000793	86.0	79.3	1	34.0-140			8.11	43
Heptachlor epoxide	0.00100	<0.0000183	0.000852	0.000779	85.2	77.9	1	37.0-142			8.95	26
Hexachlorobenzene	0.00100	<0.0000176	0.000859	0.000783	85.9	78.3	1	35.0-120			9.26	25

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1733793

DATE/TIME:  
06/06/24 14:29

PAGE:  
39 of 69

WG2284804

Pesticides (GC) by Method EPA 608.3

QUALITY CONTROL SUMMARY

L1733793-01

L1733793-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1733793-01 05/12/24 17:18 • (MS) R4069003-3 05/12/24 17:26 • (MSD) R4069003-4 05/12/24 17:35

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methoxychlor	0.00100	<0.0000193	0.000890	0.000833	89.0	83.3	1	44.0-160			6.62	22
gamma-Chlordane	0.00100	<0.0000137	0.000848	0.000773	84.8	77.3	1	45.0-140			9.25	35
alpha-Chlordane	0.00100	<0.0000149	0.000832	0.000757	83.2	75.7	1	45.0-140			9.44	35
(S) Decachlorobiphenyl					71.1	68.5		10.0-144				
(S) Tetrachloro-m-xylene					75.4	69.2		10.0-135				



ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1733793

DATE/TIME:  
06/06/24 14:29

PAGE:  
40 of 69



# QUALITY CONTROL SUMMARY

L1733793-01

Polychlorinated Biphenyls (GC) by Method EPA-608.3

## Method Blank (MB)

(MB) R4069003-1 05/12/24 16:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
PCB 1016	<0.000270		0.000270	0.000500
PCB 1221	<0.000270		0.000270	0.000500
PCB 1232	<0.000270		0.000270	0.000500
PCB 1242	<0.000270		0.000270	0.000500
PCB 1248	<0.000173		0.000173	0.000500
PCB 1254	<0.000173		0.000173	0.000500
PCB 1260	<0.000173		0.000173	0.000500
Total PCBs	<0.000173		0.000173	0.000500
(S) Decachlorobiphenyl	39.6			10.0-144
(S) Tetrachloro-m-xylene	83.6			10.0-135

## Laboratory Control Sample (LCS)

(LCS) R4069003-5 05/12/24 17:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.00250	0.00264	106	50.0-140	
PCB 1260	0.00250	0.00234	93.6	8.00-140	
(S) Decachlorobiphenyl			59.2	10.0-144	
(S) Tetrachloro-m-xylene			79.7	10.0-135	

## L1733793-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1733793-01 05/12/24 17:18 • (MS) R4069003-6 05/12/24 17:44 • (MSD) R4069003-7 05/12/24 17:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	MSD Result mg/l	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1016	0.00250	<0.000270	0.00290	116	0.00257	103	1	50.0-140			12.1	36
PCB 1260	0.00250	<0.000173	0.00250	100	0.00231	92.4	1	8.00-140			7.90	38
(S) Decachlorobiphenyl				86.7		80.6		10.0-144				
(S) Tetrachloro-m-xylene				88.0		70.4		10.0-135				

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1733793

DATE/TIME:  
05/06/24 14:29

PAGE:  
41 of 69

WG2283837

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

QUALITY CONTROL SUMMARY

L1733793-01

Method Blank (MB)

(MB) R4068866-1 05/10/24 17:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,2,4,5-Tetrachlorobenzene	<0.00132		0.00132	0.00250
1,2,4-Trichlorobenzene	<0.00159		0.00159	0.00250
1,2-Dichlorobenzene	<0.00168		0.00168	0.00250
1,3-Dichlorobenzene	<0.00170		0.00170	0.00250
1,4-Dichlorobenzene	<0.00184		0.00184	0.00250
2,2-Oxybis(1-Chloropropane)	<0.00116		0.00116	0.00250
2,4,5-Trichlorophenol	<0.00193		0.00193	0.00250
2,4,6-Trichlorophenol	<0.00179		0.00179	0.00250
2,4-Dichlorophenol	<0.000820		0.000820	0.00250
2,4-Dimethylphenol	<0.00142		0.00142	0.00500
2,4-Dinitrophenol	<0.00115		0.00115	0.00500
2,4-Dinitrotoluene	<0.00265		0.00265	0.00500
2,6-Dichlorophenol	<0.00107		0.00107	0.00250
2,6-Dinitrotoluene	<0.00181		0.00181	0.00500
2-Chloronaphthalene	<0.00143		0.00143	0.00250
2-Chlorophenol	<0.000820		0.000820	0.00250
2-Methylphenol	<0.000760		0.000760	0.00500
2-Nitrophenol	<0.00169		0.00169	0.00250
3&4-Methyl Phenol	<0.000767		0.000767	0.00250
3,3-Dichlorobenzidine	<0.00265		0.00265	0.00500
4,6-Dinitro-2-methylphenol	<0.00150		0.00150	0.00500
4-Bromophenyl-phenylether	<0.00104		0.00104	0.00250
4-Chloro-3-methylphenol	<0.000865		0.000865	0.00250
4-Chlorophenyl-phenylether	<0.00140		0.00140	0.00250
4-Nitrophenol	<0.00164		0.00164	0.00500
Acenaphthene	<0.00134		0.00134	0.00250
Acenaphthylene	<0.00134		0.00134	0.00250
Acetophenone	<0.000788		0.000788	0.00250
Alpha-Terpineol	<0.000696		0.000696	0.00250
Aniline	<0.000536		0.000536	0.00250
Anthracene	<0.00111		0.00111	0.00250
Atrazine	<0.00167		0.00167	0.00250
Benzidine	<0.00311		0.00311	0.0100
Benzo(a)anthracene	<0.000933		0.000933	0.00250
Benzo(a)pyrene	<0.000941		0.000941	0.00250
Benzo(b)fluoranthene	<0.00102		0.00102	0.00250
Benzo(g,h,i)perylene	<0.00101		0.00101	0.00250
Benzo(k)fluoranthene	<0.000934		0.000934	0.00250
Benzoic acid	<0.00657		0.00657	0.0100
Benzylbutyl phthalate	<0.00143		0.00143	0.00250

ACCOUNT:

Holiday Beach WSC

PROJECT:

SDG:

L1733793

DATE/TIME:

06/06/24 14:29

PAGE:

42 of 69

Method Blank (MB)

(MB) R4068866-1 05/10/24 17:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Bis(2-chlorethoxy)methane	<0.000991		0.000991	0.00250
Bis(2-chloroethyl)ether	<0.00101		0.00101	0.00250
Bis(2-chloroisopropyl)ether	<0.00116		0.00116	0.00250
Bis(2-Ethylhexyl)phthalate	<0.00318		0.00318	0.00500
Carbazole	<0.00106		0.00106	0.00250
Chrysene	<0.00102		0.00102	0.00250
Di-n-butyl phthalate	<0.00120		0.00120	0.00250
Di-n-octyl phthalate	<0.00174		0.00174	0.00250
Dibenz(a,h)anthracene	<0.00110		0.00110	0.00250
Dibenzofuran	<0.00120		0.00120	0.00250
Diethyl phthalate	<0.000915		0.000915	0.00250
Dimethyl phthalate	<0.000878		0.000878	0.00250
Fluoranthene	<0.00114		0.00114	0.00250
Fluorene	<0.00131		0.00131	0.00250
Hexachloro-1,3-butadiene	<0.00176		0.00176	0.00250
Hexachlorobenzene	<0.000972		0.000972	0.00250
Hexachlorocyclopentadiene	<0.00117		0.00117	0.0100
Hexachloroethane	<0.00188		0.00188	0.00250
1,2-Diphenylhydrazine	<0.00124		0.00124	0.00250
Indeno(1,2,3-cd)pyrene	<0.000984	N2	0.000984	0.00250
Isophorone	<0.00183		0.00183	0.00250
n-Decane	<0.00158		0.00158	0.00250
n-Nitrosodi-n-butylamine	<0.000735		0.000735	0.00250
n-Nitrosodi-n-propylamine	<0.00107		0.00107	0.00250
n-Nitrosodimethylamine	<0.000925		0.000925	0.00250
n-Nitrosodiphenylamine	<0.000651		0.000651	0.00250
n-Octadecane	<0.000829		0.000829	0.00250
Naphthalene	<0.00128		0.00128	0.00250
Nitrobenzene	<0.00200		0.00200	0.00250
Nonylphenol	<0.00124		0.00124	0.00250
Pentachlorobenzene	<0.00286		0.00286	0.00500
Pentachlorophenol	<0.00134		0.00134	0.00250
Phenanthrene	<0.00210		0.00210	0.00500
Phenol	<0.00113		0.00113	0.00250
Pyrene	<0.000967		0.000967	0.00250
Pyridine	<0.00115		0.00115	0.00250
Total Cresols	<0.00117		0.00117	0.00250
(S) 2,4,6-Tribromophenol	<0.00153		0.00153	0.00750
(S) 2-Fluorobiphenyl	78.7			29.0-132
	81.6			26.0-102



WG2283837

Semi Volatile Organic Compounds (GC/MS) by Method.625.1

QUALITY CONTROL SUMMARY

L1733793-01

Method Blank (MB)

(MB) R4068866-1 05/10/24 17:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
(S) 2-Fluorophenol	44.7			10.0-66.0
(S) Nitrobenzene-d5	84.2			15.0-106
(S) p-Terphenyl-d14	90.8			10.0-120
(S) Phenol-d6	31.5			10.0-54.0

Laboratory Control Sample (LCS)

(LCS) R4068866-2 05/10/24 17:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,4,5-Tetrachlorobenzene	0.0500	0.0356	71.2	31.0-120	
1,2,4-Trichlorobenzene	0.0500	0.0378	75.6	44.0-142	
1,2-Dichlorobenzene	0.0500	0.0364	72.8	27.0-120	
1,3-Dichlorobenzene	0.0500	0.0358	71.6	26.0-120	
1,4-Dichlorobenzene	0.0500	0.0360	72.0	26.0-120	
2,2-Oxybis(4-Chloropropane)	0.0500	0.0372	74.4	36.0-166	
2,4,5-Trichlorophenol	0.0500	0.0396	79.2	44.0-124	
2,4,6-Trichlorophenol	0.0500	0.0392	78.4	37.0-144	
2,4-Dichlorophenol	0.0500	0.0360	72.0	39.0-135	
2,4-Dimethylphenol	0.0500	0.0386	77.2	32.0-120	
2,4-Dinitrophenol	0.0500	0.0335	67.0	100-191	
2,4-Dinitrotoluene	0.0500	0.0481	96.2	39.0-139	
2,6-Dichlorophenol	0.0500	0.0353	70.6	26.0-120	
2,6-Dinitrotoluene	0.0500	0.0440	88.0	50.0-158	
2-Chloronaphthalene	0.0500	0.0411	82.2	60.0-120	
2-Chlorophenol	0.0500	0.0318	63.6	23.0-134	
2-Methylphenol	0.0500	0.0303	60.6	26.0-120	
2-Nitrophenol	0.0500	0.0377	75.4	29.0-182	
3&4-Methyl Phenol	0.0500	0.0289	57.8	27.0-120	
3,3-Dichlorobenzidine	0.100	0.0888	88.8	100-262	
4,6-Dinitro-2-methylphenol	0.0500	0.0415	83.0	100-181	
4-Bromophenyl-phenylether	0.0500	0.0410	82.0	53.0-127	
4-Chloro-3-methylphenol	0.0500	0.0374	74.8	22.0-147	
4-Chlorophenyl-phenylether	0.0500	0.0431	86.2	25.0-158	
4-Nitrophenol	0.0500	0.0280	56.0	100-132	
Acenaphthene	0.0500	0.0409	81.8	47.0-145	
Acenaphthylene	0.0500	0.0423	84.6	33.0-145	
Acetophenone	0.0500	0.0380	76.0	28.0-120	
Alpha-Terpineol	0.0500	0.0408	81.6	30.0-120	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1733793

DATE/TIME:  
06/06/24 14:29

PAGE:  
44 of 69

L1733793-01

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Laboratory Control Sample (LCS)

(LCS) R4068866-2 05/10/24 17:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aniline	0.0500	0.0232	46.4	10.0-120	
Anthracene	0.0500	0.0448	89.6	27.0-133	
Atrazine	0.0500	0.0481	96.2	39.0-141	
Benzidine	0.100	0.0804	80.4	1.00-120	
Benzo(a)anthracene	0.0500	0.0455	91.0	33.0-143	
Benzo(a)pyrene	0.0500	0.0501	100	17.0-163	
Benzo(b)fluoranthene	0.0500	0.0486	97.2	24.0-159	
Benzo(g,h,i)perylene	0.0500	0.0442	88.4	1.00-219	
Benzo(k)fluoranthene	0.0500	0.0461	92.2	11.0-162	
Benzoic acid	0.100	0.0116	11.6	10.0-120	
Benzylbutyl phthalate	0.0500	0.0470	94.0	1.00-152	
Bis(2-chloroethoxy)methane	0.0500	0.0397	79.4	1.00-219	
Bis(2-chloroethyl)ether	0.0500	0.0386	77.2	33.0-185	
Bis(2-chloroisopropyl)ether	0.0500	0.0372	74.4	36.0-166	
Bis(2-Ethylhexyl)phthalate	0.0500	0.0489	97.8	8.00-158	
Carbazole	0.0500	0.0476	95.2	45.0-121	
Chrysene	0.0500	0.0455	91.0	17.0-168	
Di-n-butyl phthalate	0.0500	0.0487	97.4	1.00-120	
Di-n-octyl phthalate	0.0500	0.0479	95.8	4.00-146	
Dibenz(a,h)anthracene	0.0500	0.0464	92.8	1.00-227	
Dibenzofuran	0.0500	0.0424	84.8	42.0-120	
Diethyl phthalate	0.0500	0.0464	92.8	1.00-120	
Dimethyl phthalate	0.0500	0.0437	87.4	1.00-120	
Fluoranthene	0.0500	0.0479	95.8	26.0-137	
Fluorene	0.0500	0.0442	88.4	59.0-121	
Hexachloro-1,3-butadiene	0.0500	0.0392	78.4	24.0-120	
Hexachlorobenzene	0.0500	0.0417	83.4	1.00-152	
Hexachlorocyclopentadiene	0.0500	0.0457	91.4	10.0-120	
Hexachloroethane	0.0500	0.0368	73.6	40.0-120	
1,2-Diphenylhydrazine	0.0500	0.0429	85.8	37.0-125	
Indeno(1,2,3-cd)pyrene	0.0500	0.0461	92.2	1.00-171	
Isophorone	0.0500	0.0434	86.8	21.0-196	
n-Decane	0.0500	0.0311	62.2	10.0-127	
n-Nitrosodi-n-butylamine	0.0500	0.0345	69.0	39.0-127	
n-Nitrosodi-n-propylamine	0.0500	0.0428	85.6	1.00-230	
n-Nitrosodiethylamine	0.0500	0.0359	71.8	10.0-142	
n-Nitrosodimethylamine	0.0500	0.0243	48.6	10.0-120	
n-Nitrosodiphenylamine	0.0500	0.0428	85.6	44.0-120	
n-Octadecane	0.0500	0.0373	74.6	17.0-126	
Naphthalene	0.0500	0.0391	78.2	21.0-133	

N2

WG2283837

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

## QUALITY CONTROL SUMMARY

L1733793-01

### Laboratory Control Sample (LCS)

(LCS) R4068866-2 05/10/24 17:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrobenzene	0.0500	0.0410	82.0	35.0-180	
Nonylphenol	0.0500	0.0516	103	57.0-136	
Pentachlorobenzene	0.0500	0.0394	78.8	10.0-151	
Pentachlorophenol	0.0500	0.0433	86.6	14.0-176	
Phenanthrene	0.0500	0.0428	85.6	54.0-120	
Phenol	0.0500	0.0168	33.6	5.00-120	
Pyrene	0.0500	0.0494	98.8	52.0-120	
Pyridine	0.0500	0.0162	32.4	10.0-120	
Total Cresols	0.100	0.0592	59.2	36.0-110	
(S) 2,4,6-Tribromophenol		88.4	88.4	29.0-132	
(S) 2-Fluorobiphenyl		80.2	80.2	26.0-102	
(S) 2-Fluorophenol		41.8	41.8	10.0-66.0	
(S) Nitrobenzene-d5		78.6	78.6	15.0-106	
(S) p-Terphenyl-d14		89.4	89.4	10.0-120	
(S) Phenol-d6		31.3	31.3	10.0-54.0	

ACCOUNT:  
Holiday Beach WSC

PROJECT:

SDG:  
L1733793

DATE/TIME:  
06/06/24 14:29

PAGE:  
46 of 69



# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

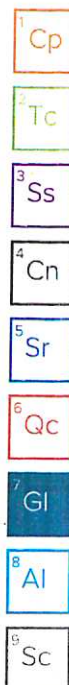
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

**Results Disclaimer** - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
N2	Analyte reported using a calibration and validation based on Azobenzene (CAS 103-33-3). 1,2-Diphenylhydrazine decomposes into Azobenzene during the analysis.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T8	Sample(s) received past/too close to holding time expiration.



# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1 6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1 4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	AZLA
A2LA - ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA - ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

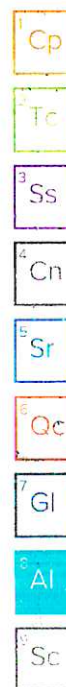
## Pace Analytical Services, LLC -Dallas 400 W. Bethany Drive Suite 190 Allen, TX 75013

Arkansas	88-0647	Kansas	E10388
Florida	E871118	Texas	T104704232-23-39
Iowa	408	Oklahoma	8727
Louisiana	30686		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





<b>Company Name/Address:</b> <b>Holiday Beach WSC</b> PO Box 807 Fulton, TX 78358		<b>Billing Information:</b> <b>Vernon Hale</b> 2611 Highway 35 North Rockport, TX 78382		<b>Chain of Custody</b> Page <b>1</b> of <b>2</b>	
<b>Report to:</b> <b>Vernon Hale</b>		<b>Project Description:</b> PERMIT RENEWAL 94		<b>City/State</b> Rockport TX	
<b>Phone:</b> 361-205-3184		<b>Client Project #</b> WX4		<b>Please Circle:</b> PT MT CT ET	
<b>Collected by (print):</b> VERNON HALE		<b>Site/Facility ID #</b> TX-0040015		<b>P.O. #</b>	
<b>Collected by (signature):</b> <i>Vernon Hale</i>		<b>Rush?</b> (Lab MUST Be Notified) Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day <input type="checkbox"/>		<b>Quote #</b>	
<b>Immediately Packed on Ice</b> N <input checked="" type="checkbox"/> Y <input type="checkbox"/>		<b>Date Results Needed</b> No. of Cntrs		<b>Quote #</b>	
<b>Sample ID</b> R.O. DISCHARGE GRAB		<b>Comp/Grab</b> WW		<b>Date</b> 7 MAY 24	
<b>Remarks:</b> SS - Soil    AIR - Air    F - Filter GW - Groundwater    B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		<b>Tracking #</b> 7280 784 6265		<b>pH</b> <b>Temp</b>	
<b>Relinquished by: (Signature)</b> <i>Vernon Hale</i>		<b>Date:</b> 7 MAY 24		<b>Flow</b> <b>Other</b>	
<b>Relinquished by: (Signature)</b> <i>[Signature]</i>		<b>Date:</b>		<b>Trip Blank Received:</b> Yes / No HCL / Meoth TBR	
<b>Relinquished by: (Signature)</b> <i>[Signature]</i>		<b>Date:</b> 5/8/24		<b>Temp:</b> <b>Bottles Received:</b>	
<b>Relinquished by: (Signature)</b> <i>[Signature]</i>		<b>Date:</b> 5/8/24		<b>Date:</b> 5/8/24 0930	



<b>Company Name/Address:</b> <b>Holiday Beach WSC</b> PO Box 807 Fulton, TX 78358		<b>Billing Information:</b> <b>Vernon Hale</b> 2611 Highway 35 North Rockport, TX 78382  Email To: water@hbws.com		Pres Chk		Analysis / Container / Preservation		<b>Chain of Custody</b> Page 2 of 2   PEOPLE ADVANCING SCIENCE  ALLEN, TX  <small>400 W. Bellway Drive Suite 150 Allen, TX 75013          Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at:  <a href="https://info.pacelabs.com/hush/pas-standard-terms.pdf">https://info.pacelabs.com/hush/pas-standard-terms.pdf</a></small>	
<b>Report to:</b> <b>Vernon Hale</b>  <b>Project Description:</b>		<b>City/State Collected:</b>		Please Circle: PT MT CT ET		<b>SDG #</b> L1733743		<b>Table #</b>	
<b>Phone:</b> 361-205-3184		<b>Client Project #</b>		<b>Lab Project #</b>		<b>Acctnum:</b> HOLBEAFTX		<b>Template:</b> T251266	
<b>Collected by (print):</b> PERMIT RENEWAL		<b>Site/Facility ID #</b>		<b>P.O. #</b>		<b>Prelogin:</b> P1070068		<b>PM:</b> 3587 - Lori A Vahrenkamp	
<b>Collected by (signature):</b>		<b>Rush? (Lab MUST Be Notified)</b> <input type="checkbox"/> Same Day <input checked="" type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only)		<b>Date Results Needed</b> No. of Cnts		<b>PB:</b>		<b>Shipped Via:</b> FedEx Ground	
<b>Immediately Packed on Ice</b> N Y		<b>Comp/Grab</b> Matrix * Depth Date Time		WetChem 500mlHDPE-NoPres X		WetChem 250mlHDPE-H2SO4 X		SVOCs 1L-Amb-No Pres X	
<b>Sample ID</b> Bo DISCHARGE GRAB WW		Date May 24 03:15A 17		pH Temp Flow Other		COC Seal Present/Intact: NP Y N COC Signed/Accurate: Y N Bottles arrive intact: Y N Correct bottles used: Y N Sufficient volume sent: Y N If Applicable VOA Zero Headspace: Y N Preservation Correct/Checked: Y N RAD Screen <0.5 mB/hr: Y N		Remarks Sample # (lab only)	
<b>Remarks:</b> SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - Waste Water DW - Drinking Water OT - Other		<b>Samples returned via:</b> UPS FedEx Courier		<b>Tracking #</b> 7280 7814 6265		Trip Blank Received: Yes/No MeOH		If preservation required by Login: Date/Time	
<b>Relinquished by : (Signature)</b>		<b>Date:</b> 5/18/24		<b>Time:</b> 0930		<b>Received by: (Signature)</b>		<b>Date:</b>	
<b>Relinquished by : (Signature)</b>		<b>Date:</b>		<b>Time:</b>		<b>Received by: (Signature)</b>		<b>Date:</b>	
<b>Relinquished by : (Signature)</b>		<b>Date:</b>		<b>Time:</b>		<b>Received by: (Signature)</b>		<b>Date:</b>	



07/15/2024 07:00:00 VCTA 58163/C137/C086



**AD DNA**

DFW  
TX-US  
75013

TRK# 0221  
7280 7814 6265

WED - 08  
PRIORITY OVER



RT 427  
ST 3  
10:30  
6265  
05 08

ALLEN TX 75013

PAGE ANALYTICAL  
PAGE ANALYTICAL  
400 W. BETHANY DR #190

585CC/1948/ME17





Company Name/Address:		Billing Information:		Analyst / Container / Preservative		Chain of Custody		Page 1 of 2	
<b>Holiday Beach WSC</b> PO Box 807 Fulton, TX 78358		<b>Vernon Hale</b> 2611 Highway 35 North Rockport, TX 78382		Pres Chk Pres Chk		<b>Pace</b> PEOPLE ADVANCING SCIENCE		Allen, TX 400 W. Bethany Drive Suite 150 Allen, TX 75013 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <a href="http://www.pace.com/pdfs/paceterms.pdf">www.pace.com/pdfs/paceterms.pdf</a>	
<b>Report to:</b> <b>Vernon Hale</b>		<b>Email To:</b> water@hbwsc.com							
<b>Project Description:</b> PERMIT RENEWAL 94		<b>City/State:</b> WKT TX		<b>Please Circle:</b> PT MT CT ET					
<b>Phone:</b> 361-205-3184		<b>Client Project #</b>		<b>Lab Project #</b>					
<b>Collected by (print):</b> VERNON HALE		<b>Site/Facility ID #</b> TX0040015		<b>P.O. #</b>					
<b>Collected by (signature):</b> <i>Vernon Hale</i>		<b>Rush? (Lab MUST Be Notified)</b> Same Day Next Day Five Day Two Day Three Day		<b>Quote #</b>					
<b>Immediately</b> Packed on Ice N Y X		<b>Date Results Needed</b>		<b>No. of Cntrs</b>					
<b>Sample ID</b>		<b>Comp/Grab</b>		<b>Matrix *</b>		<b>Depth</b>		<b>Date</b>	
R.O. DISCHARGE GRAB		WW		7 MAY 2015		17		17	
Rel: <i>Waste Water</i> 5/8/24 1700									
Rel: <i>FedEx</i> 5/8/24 1700									
Rel: <i>FedEx</i>									
Rel:									
<b>* Matrix:</b> SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - Waste Water DW - Drinking Water OT - Other		<b>Samples returned via:</b> UPS FedEx Courier		<b>Date:</b> 7 May 24 1040		<b>Time:</b>		<b>Tracking #</b> 7280 7814 6265	
<b>Relinquished by: (Signature)</b> <i>Vernon Hale</i>		<b>Date:</b> 7 May 24 1040		<b>Time:</b>		<b>Received by (Signature)</b> <i>CHODUNO</i>		<b>Date:</b> 05/08/24	
<b>Relinquished by: (Signature)</b> <i>Fulton</i>		<b>Date:</b> 5/8/24 0930		<b>Time:</b>		<b>Received by (Signature)</b> <i>Wineberry</i>		<b>Date:</b> 5/8/24 0930	
<b>Relinquished by: (Signature)</b> <i>Fulton</i>		<b>Date:</b> 5/8/24 0930		<b>Time:</b>		<b>Received by (Signature)</b> <i>Wineberry</i>		<b>Date:</b> 5/8/24 0930	
<b>Remarks:</b>		<b>pH</b>		<b>Temp</b>		<b>Flow</b>		<b>Other</b>	
Sample Received Checklist: COC Seal Present/Intact: NP Y N COC Signed/Assembled: Y N Bottles arrive intact: Y N Correct bottles used: Y N Sufficient volume sent: Y N IC Applicable: Y N VOA Zero Headspace: Y N Preservation Correct/Checked: Y N RAD Screen <0.5 mS/hr: Y N		<b>Temp</b>		<b>Flow</b>		<b>Other</b>		<b>Condition:</b> NCF / OK	



<b>Company Name/Address:</b> <b>Holiday Beach WSC</b> PO Box 807 Fulton, TX 78358		<b>Billing Information:</b> Vernon Hale 2611 Highway 35 North Rockport, TX 78382 Email To: water@hbwsc.com		<b>Chain of Custody</b> Page <b>2</b> of <b>2</b>	
<b>Report to:</b> Vernon Hale		<b>Project Description:</b>		<b>Analysis / Container / Preservative</b>	
<b>Client Project #</b>		<b>City/State Collected:</b>		<b>Pres</b> CHA	
<b>Phone: 361-205-3184</b>		<b>Lab Project #</b>			
<b>Collected by (print):</b> PERMIT RENEWAL		<b>Site/Facility ID #</b>			
<b>Collected by (signature):</b>		<b>P.O. #</b>			
<b>Rush? (Lab MUST Be Notified)</b> Same Day _____ Five Day _____ Next Day _____ 5 Day (Rad Only) _____ Two Day _____ 10 Day (Rad Only) _____ Three Day _____		<b>Quote #</b>			
<b>Immediately</b> Packed on Ice N _____ Y _____		<b>Date Results Needed</b>			
<b>Sample ID</b>		<b>Comp/Grab</b>		<b>Matrix *</b>	
BO DISCHARGE GRAB		WW			
Lab: w/ Jayson Ramos / PNOE 5/8/24 1700					
Rec: FedEx 5/8/24 1700					
Rel: FedEx					
Rel:					
<b>Remarks:</b> * Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - Waste Water DW - Drinking Water OT - Other		<b>Samples returned via:</b> UPS _____ FedEx _____ Courier _____		<b>Tracking #</b> 7280 7814 6265	
<b>Relinquished by: (Signature)</b> [Signature]		<b>Date:</b> 5/8/24		<b>Time:</b> 0930	
<b>Relinquished by: (Signature)</b> [Signature]		<b>Date:</b>		<b>Time:</b>	
<b>Relinquished by: (Signature)</b> [Signature]		<b>Date:</b>		<b>Time:</b>	
<b>Received by (Signature):</b> [Signature]		<b>Date:</b> 05/10/24		<b>Time:</b> 0930	
<b>Received by (Signature):</b> [Signature]		<b>Date:</b>		<b>Time:</b>	
<b>Received by (Signature):</b> [Signature]		<b>Date:</b>		<b>Time:</b>	
<b>Sample Receipt Checklist</b> COC Seal Present/Intact: <input checked="" type="checkbox"/> NP COC Signed/Accurate: <input checked="" type="checkbox"/> NP Bottles arrive intact: <input checked="" type="checkbox"/> NP Correct bottles used: <input checked="" type="checkbox"/> NP Sufficient volume sent: <input checked="" type="checkbox"/> NP VOA zero Headspace: <input checked="" type="checkbox"/> NP Preservation Correct/Checked: <input checked="" type="checkbox"/> NP RAD Screen <0.5 mB/hr: <input checked="" type="checkbox"/> NP		<b>Shipped Via:</b> FedEx Ground		<b>Remarks:</b>	
<b>SDG #</b> 0173743		<b>Table #</b>			
<b>Account:</b> HOLBEAFTX		<b>Template:</b> T251266			
<b>Project:</b> P1070068		<b>PM:</b> 3587 - Lori A Vahrenkamp			
<b>PB:</b>					
<b>Shipped Via:</b> FedEx Ground					
<b>Remarks:</b>					

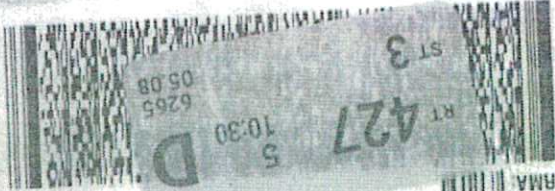
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PAGE ANALYTICAL  
400 W. BETHANY DR #190

ALLEN TX 75013

(972) 727-1123

REF 1

585CE/1949/MET7



RT 427  
S 10:30  
6265  
05:08

ST 3

RMA 1110111

AD DNEA

7280 7814 6265

TRK 0221


WED - 28  
PRIORITY OVE

75013  
TX-L6  
DFW



585CE/1949/MET7



	
Document Name:	Sample Condition Upon Receipt
Document No.:	F-DAL-C-001-rev.14
Document Revised: 7/27/20	Page 1 of 1
Issuing Authority: Pace Dallas Quality Office	

### Sample Condition Upon Receipt

☒ Dallas
 ☐ Ft Worth
 ☐ Corpus Christi
 ☐ Austin

Client Name: Holiday Beach WSC Project Work order (place label):

Courier: Fedex ☐ UPS ☐ USPS ☐ Client ☐ LSO ☐ PACE ☐ Other:

Tracking #: 7280 794 4245

Custody Seal on Cooler/Box: Yes ☒ No ☐

Received on ice: Wet ☒ Blue ☐ No ice ☐

Receiving Lab 1 Thermometer Used: 10.9

Receiving Lab 2 Thermometer Used: \_\_\_\_\_

Cooler Temp °C: 21 (Recorded) 10.2 (Correction Factor) 2.3 (Actual)  
 Cooler Temp °C: \_\_\_\_\_ (Recorded) \_\_\_\_\_ (Correction Factor) \_\_\_\_\_ (Actual)

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable

Triage Person: AG

Date: 5/8/24

Chain of Custody relinquished	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sampler name & signature on COC	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Short HI analyses (<72 hrs)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Login Person: JW

Date: 5/8/24

Sufficient Volume received	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Correct Container used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Container Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample pH Acceptable	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
pH Strips:	<u>6.30/6.00</u>
Residual Chlorine Present	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
CI Strips:	<u>14.40</u>
Sulfide Present	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Lead Acetate Strips:	<u>4.80/2</u>
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Unpreserved 5035A soil frozen within 48 hrs	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Headspace in VOA (>6mm)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
State Sampled:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Non-Conformance(s):	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Labeling Person (if different than log-in):

Date: \_\_\_\_\_





May 28, 2024

Jeremy Watkins  
Pace Analytical Dallas  
400 West Bethany Drive  
Suite 190  
Allen, TX 75013

RE: Project: L1733793 WG2283542  
Pace Project No.: 40278147

Dear Jeremy Watkins:

Enclosed are the analytical results for sample(s) received by the laboratory on May 10, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela Lane  
angela.lane@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures

cc: Client Services, Pace Analytical Allen



## REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC  
1241 Bellevue Street - Suite 9  
Green Bay, WI 54302  
(920)469-2436

## CERTIFICATIONS

Project: L1733793 WG2283542

Pace Project No.: 40278147

---

### Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

---

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: L1733793 WG2283542  
Pace Project No.: 40278147

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40278147001	R.O. DISCHARGE	Water	05/07/24 08:15	05/10/24 09:45

## REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9  
Green Bay, WI 54302  
(920)469-2436

### SAMPLE ANALYTE COUNT

Project: L1733793 WG2283542  
Pace Project No.: 40278147

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40278147001	R.O. DISCHARGE	EPA 1631E	TXW	1

PASI-G = Pace Analytical Services - Green Bay

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: L1733793 WG2283542  
Pace Project No.: 40278147

Sample: R.O. DISCHARGE		Lab ID: 40278147001	Collected: 05/07/24 08:15	Received: 05/10/24 09:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level		Analytical Method: EPA 1631E Preparation Method: EPA 1631E Pace Analytical Services - Green Bay						
Mercury	ND	ng/L	0.50	1	05/21/24 11:21	05/24/24 14:44	7439-97-6	

## REPORT OF LABORATORY ANALYSIS

Date: 05/28/2024 08:16 AM

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Page 5 of 12



### QUALITY CONTROL DATA

Project: L1733793 WG2283542

Pace Project No.: 40278147

QC Batch: 474934

Analysis Method: EPA 1631E

QC Batch Method: EPA 1631E

Analysis Description: 1631E Mercury

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40278147001

METHOD BLANK: 2719784

Matrix: Water

Associated Lab Samples: 40278147001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	05/24/24 13:04	

METHOD BLANK: 2719785

Matrix: Water

Associated Lab Samples: 40278147001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.53	05/24/24 13:09	

METHOD BLANK: 2719786

Matrix: Water

Associated Lab Samples: 40278147001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	05/24/24 14:09	

METHOD BLANK: 2719787

Matrix: Water

Associated Lab Samples: 40278147001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	05/24/24 15:09	

LABORATORY CONTROL SAMPLE: 2719788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ng/L	5	4.19	84	79-121	

LABORATORY CONTROL SAMPLE: 2719789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ng/L	5	4.43	89	79-121	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: L1733793 WG2283542

Pace Project No.: 40278147

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2722603					2722604								
Parameter	Units	40278061011	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max	Qual
		Result	Spike	Spike									
Mercury	ng/L	30.9	42.1	42.1	72.1	70.1	98	93	75-125		3	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2722607													2722608			
Parameter	Units	35878047001	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	RPD	Max	Qual			
		Result	Spike Conc.	Spike Conc.										Result	Result	% Rec
Mercury	ng/L	0.00187 ug/L	2	2	3.90	3.59	101	86	75-125		8	24				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

Date: 05/28/2024 08:16 AM

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Page 7 of 12





## QUALIFIERS

Project: L1733793 WG2283542  
Pace Project No.: 40278147

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1733793 WG2283542  
Pace Project No.: 40278147

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40278147001	R.O. DISCHARGE	EPA 1631E	474934	EPA 1631E	475313

## REPORT OF LABORATORY ANALYSIS

40278147

**Sub-Contract Chain of Custody**

Batch Date/Time: 05/09/24 15 41  
 Sub-Contract Lab: PACEGBWI  
 Address: 1241 Bellvue Street, Suite 9

City/State: Green Bay, WI 54302

**Contact:**

Angela.Lane@pacelabs.com

Owner Lab: PACEATX

Address: 400 W. Bethany Drive  
 Suite 190

City/State: Allen, TX 75013

Phone: (972) 727-1123

Fax:

WO: WG2283542

Email: Dallas\_Sub@pacelabs.com

Results Due Date: 05/15/24

ESC Purchase Order #: L1733793

Send Reports to: Aysen Ramos



400 W. Bethany Drive Suite 190  
 Allen, TX 75013  
 Phone (972) 727-1123

Sample ID Container ID	Matrix	State	Collect Date	Description	Method	Sample Number Lab Use Only	Sample Comments Lab Use Only
R.O. DISCHARGE S47338574	WW	TX	05/07/24 08:15	Low Level Hg	-	1. L1733793-01	001

\*= Container used for multiple Samples and/or Analyses

Relinquished by: FedEx Date: 05/10/2024 09:45

Received by: Matt Nam Schunk Pace Date: 03/10/2024 09:45

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

Received by: \_\_\_\_\_ Date: \_\_\_\_\_





Sample Condition Upon Receipt Form (SCUR)

Client Name: Pace TX

Project #:

WO#: 40278147



Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Walto

☐ Client ☐ Pace Other:

Tracking #: 741144530730

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - 121 Type of Ice: Wet Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 18.5 / Corr: 18.0

Temp Blank Present: ☐ yes ☒ no Biological Tissue is Frozen: ☐ yes ☐ no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice

Person examining contents:

Date: 05/10/2024 Initials: MM

Labeled By Initials: JS

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>COC obtained by E-mail sent to PM. MM 05/10/2024</u>
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	4. <u>Pace IRWOMM 05/10/2024</u>
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: Pace Green Bay, <u>Pace IR</u> , Non-Pace		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

If checked, see attached form for additional comments ☐

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

Page 2 of 2





## Candice Calhoun

---

**From:** Holiday Beach <water@hbwsc.com>  
**Sent:** Wednesday, July 31, 2024 9:11 AM  
**To:** Candice Calhoun  
**Subject:** Re: Application to Renew Permit No. WQ0004290000; Holiday Beach Water Supply Corporation  
**Attachments:** NORIFilledIn.odt; TX\_Lamar\_20220804\_TM Labeled Item 11No.2.jpg; TX\_Saint\_Charles\_Bay\_20220713\_TM Labeled Item 11No.2.jpg; Core Data Form Address Update2.pdf; Industrial and Stormwater TPDES and TLAP PLS FormFilled out.docx  
**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Good Morning. Here is hopefully everything that was requested. Please let me know if you need anything else. Thank you for your help.

Vernon Hale  
Holiday Beach WSC  
2611 Highway 35 North  
Rockport Tx. 78382  
Daily: 361-729-9707  
After hours: 361-205-3184

---

**From:** Candice Calhoun <Candice.Calhoun@tceq.texas.gov>  
**Sent:** Tuesday, July 23, 2024 6:43 PM  
**To:** water@hbwsc.com <water@hbwsc.com>  
**Cc:** gilldavid710@yahoo.com <gilldavid710@yahoo.com>  
**Subject:** Application to Renew Permit No. WQ0004290000; Holiday Beach Water Supply Corporation

Good afternoon, Mr. Hale,

The attached Notice of Deficiency (NOD) letter dated **July 23, 2024**, requests additional information needed to declare the application administratively complete. Please send complete response by **August 6, 2024**.

Please let me know if you have any questions.

Regards,



# TCEQ Core Data Form

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

## SECTION I: General Information

<b>1. Reason for Submission</b> (If other is checked please describe in space provided.)		
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input checked="" type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> Other	
<b>2. Customer Reference Number</b> (if issued)	<a href="#">Follow this link to search for CN or RN numbers in Central Registry**</a>	<b>3. Regulated Entity Reference Number</b> (if issued)
CN 600654644		RN 103014965

## SECTION II: Customer Information

<b>4. General Customer Information</b>		<b>5. Effective Date for Customer Information Updates</b> (mm/dd/yyyy)		4/8/2024	
<input type="checkbox"/> New Customer		<input checked="" type="checkbox"/> Update to Customer Information		<input type="checkbox"/> Change in Regulated Entity Ownership	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>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).</i>					
<b>6. Customer Legal Name</b> (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
Holiday Beach Water Supply CorporaΘn					
<b>7. TX SOS/CPA Filing Number</b>		<b>8. TX State Tax ID</b> (11 digits)		<b>9. Federal Tax ID</b> (9 digits)	<b>10. DUNS Number</b> (if applicable)
131895501		17427292754		742729275	
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other				<input type="checkbox"/> Sole Proprietorship <input type="checkbox"/> Other:	
<b>12. Number of Employees</b>				<b>13. Independently Owned and Operated?</b>	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>14. Customer Role</b> (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator <input type="checkbox"/> Other: <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant					
<b>15. Mailing Address:</b>	Holiday Beach Water Supply CorporaΘn				
	2611 Hwy 35 North				
	<b>City</b>	Rockport	<b>State</b>	TX	<b>ZIP</b> 78382 <b>ZIP + 4</b>

<b>16. Country Mailing Information</b> <i>(if outside USA)</i>		<b>17. E-Mail Address</b> <i>(if applicable)</i>	
<b>18. Telephone Number</b>	<b>19. Extension or Code</b>	<b>20. Fax Number</b> <i>(if applicable)</i>	
( 361 ) 205-3184		(     )     -	

## SECTION III: Regulated Entity Information

<b>21. General Regulated Entity Information</b> <i>(If 'New Regulated Entity' is selected, a new permit application is also required.)</i>							
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input checked="" type="checkbox"/> Update to Regulated Entity Information							
<i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>							
<b>22. Regulated Entity Name</b> <i>(Enter name of the site where the regulated action is taking place.)</i>							
Holiday Beach Water Supply CorporaΘon							
<b>23. Street Address of the Regulated Entity:</b>  <i>(No PO Boxes)</i>	5 St. Charles Loop East (Holiday Beach						
	<b>City</b>	Rockport	<b>State</b>	TX	<b>ZIP</b>	78382	<b>ZIP + 4</b>
<b>24. County</b>	Aransas						

If no Street Address is provided, fields 25-28 are required.

<b>25. Description to Physical Location:</b>	8 St. Charles Loop East (Holiday Beach				
<b>26. Nearest City</b>	<b>State</b>			<b>Nearest ZIP Code</b>	
Rockport	Tx			78358	
<i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i>					
<b>27. Latitude (N) In Decimal:</b>		<b>28. Longitude (W) In Decimal:</b>			
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
28	9	47.772	96	59	39.4794
<b>29. Primary SIC Code</b> (4 digits)	<b>30. Secondary SIC Code</b> (4 digits)		<b>31. Primary NAICS Code</b> (5 or 6 digits)	<b>32. Secondary NAICS Code</b> (5 or 6 digits)	
4941			221310		
<b>33. What is the Primary Business of this entity?</b> <i>(Do not repeat the SIC or NAICS description.)</i>					
Provide Drinking water to 850 customers					
<b>34. Mailing</b>	Holiday Beach Water Supply Corp.				
	2611 Hwy 35 North				



	City	Rockport	State	TX	ZIP	78382	ZIP + 4	
35. E-Mail Address:		water@hbwsc.com						
36. Telephone Number			37. Extension or Code		38. Fax Number (if applicable)			
( 361 ) 205-3184					( ) -			

**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.

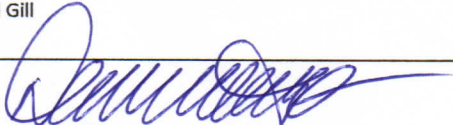
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input checked="" type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

#### **SECTION IV: Preparer Information**

40. Name:	Vernon Hale	41. Title:	Water Operator/Manager
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
( 361 ) 205-3184		( ) -	water@hbwsc.com

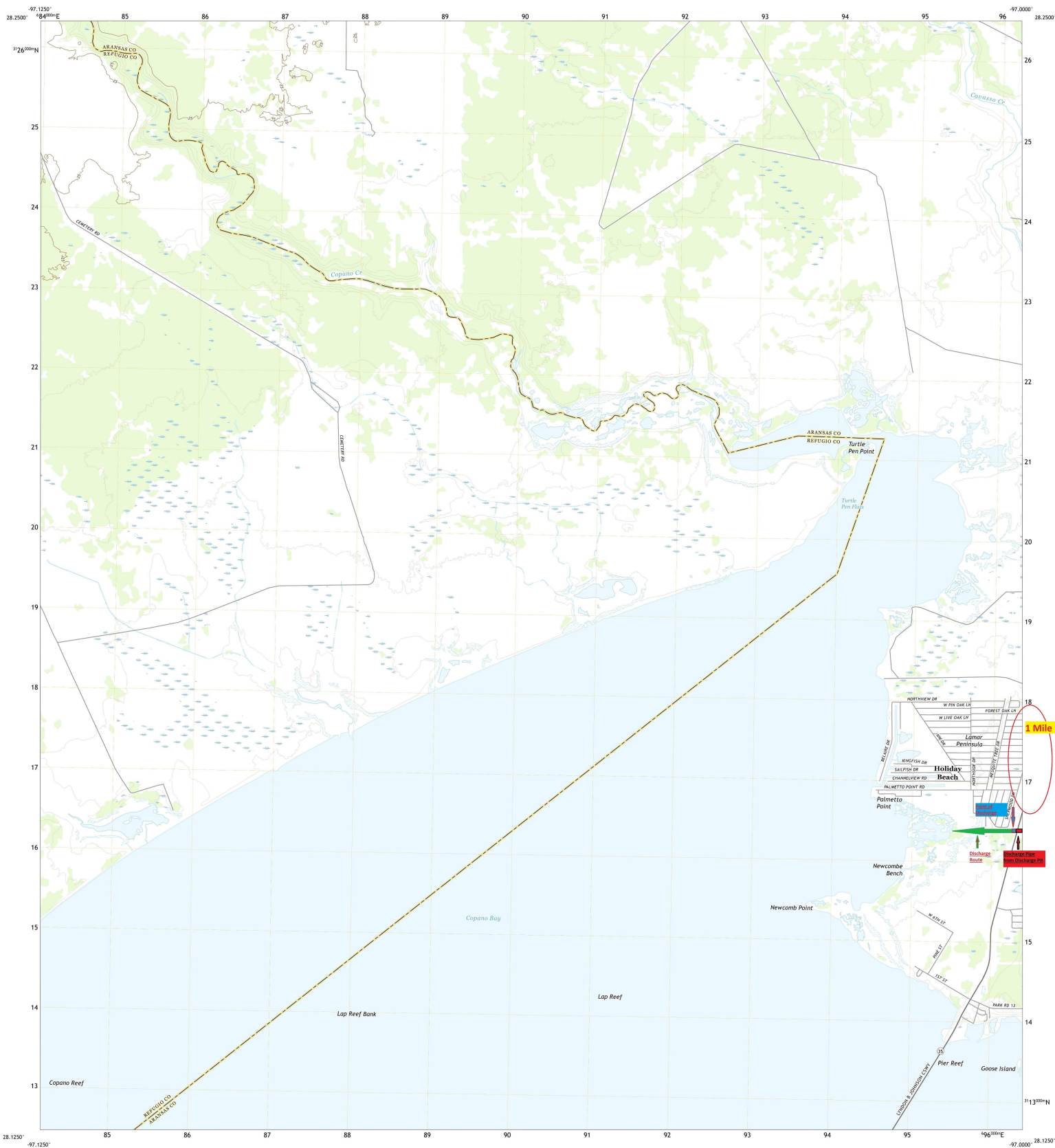
#### **SECTION V: Authorized Signature**

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:	Holiday Beach Water Supply Corporation	Job Title:	President
Name (In Print):	David Gill	Phone:	( 361 ) 205- 7108
Signature:		Date:	02-25-24

APPLICATION. Holiday Beach Water Supply Corporation, 2611 Highway 35 North, Rockport, Texas 78382, which owns a potable water treatment plant, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004290000 (EPA I.D. No. TX0123871) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 120,000 gallons per day. The water treatment facility is located at **5 St. Charles Loop East (Holiday Beach)**, near the city of Rockport, in Aransas County, Texas **78382**. The discharge route is from the plant site to an unnamed tidal ditch; thence to tidal flats; thence to the Copano Bay portion of Copano Bay/Port Bay/Mission Bay. TCEQ received this application on July 11, 2024. The permit application will be available for viewing and copying at Aransas County Clerk's Office, main entrance bulletin board, 2840 Highway 35 North, Rockport, in Aransas 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=-96.9943,28.16327&vel=18>

Further information may also be obtained from Holiday Beach Water Supply Corporation at the address stated above or by calling Mr. Vernon Hale, Operator/Manager, at 361-205-3184.



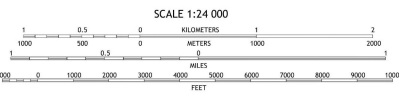
**Produced by the United States Geological Survey**

North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84)  
1 000 meter grid/Universal Transverse Mercator, Zone 14R  
This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservation may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, September 2016 - December 2016  
Roads.....U.S. Census Bureau, 2013 - 2018  
Name.....National Hydrography Dataset, 1979 - 2021  
Hydrography.....National Hydrography Dataset, 2004 - 2018  
Contour.....National Elevation Dataset, 2019  
Boundary.....Multiple sources: new metadata file 2019 - 2021  
Wetlands.....FWS National Wetlands Inventory Not Available

UTM GRID AND 2011 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

UTM  
Zone Designation  
14R



CONTOUR INTERVAL: 5 FEET  
NORTH AMERICAN DATUM OF 1983  
This map was produced to conform with the National Geospatial Program US Topo Product Standard.

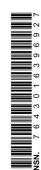


1	2	3	1 Quintana
4		5	2 Twin Matt Lake
6	7	8	3 Tivoli SW
			4 Mission Bay
			5 Saint Charles Bay
			6 Bayside
			7 Rockport
			8 Saint Charles Bay SW

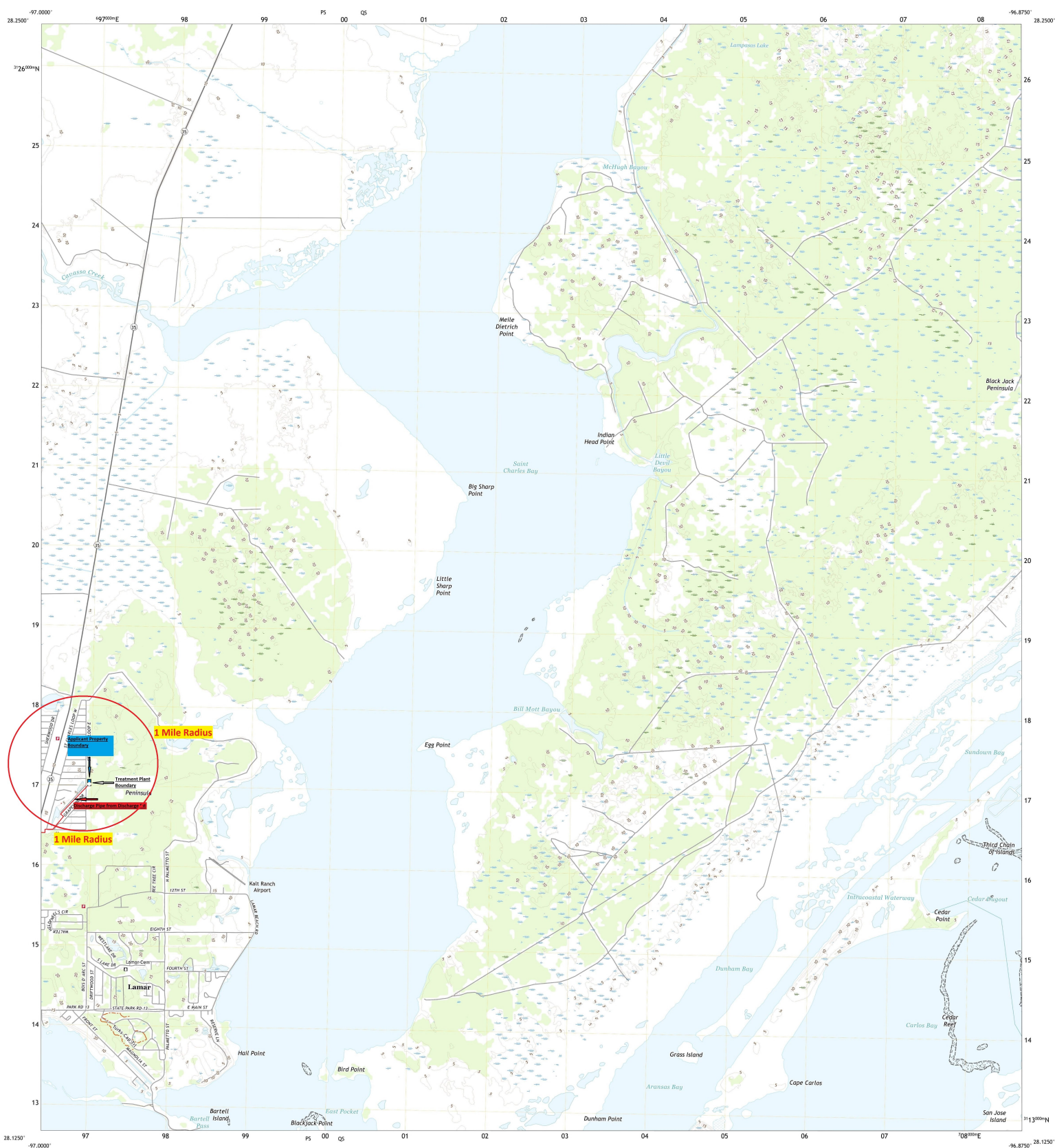
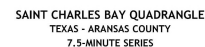
ADJOINING QUADRANGLES

**ROAD CLASSIFICATION**  
Expressway  
Secondary Hwy  
Local Road  
Interstate Route  
US Route  
State Route  
Local Connector  
Local Road  
Ramp

LAMAR, TX  
2022







Produced by the United States Geological Survey

World Geodetic System of 1984 (WGS84). Projection and

This map is not a legal document. Boundaries may be

generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....	NAIP, September
Books.....	USGS, 1999

Roads.....	U.S. Census Bureau
Names.....	
Hydrography.....	National Hydrography Data

Contours.....National Elevation  
Boundaries.....Multiple sources; see metadata

Wetlands.....FWS	National	Wetlands	Inventory
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SCALE 1:24 000

0 KILOMETERS 1 2

2000 3000 4000 5000 6000 7000 8000 9000 10000

FEET

CONTOUR INTERVAL 5 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the  
National Geospatial Program US Topo Product Standard.

THESE RESEARCHES WERE FINANCED BY THE 02 TOPIC FUNDING SCHEME.

ROAD CLASSIFICATION

Expressway  Local

Secondary Hwy \_\_\_\_\_ Local \_\_\_\_\_  
Ramp \_\_\_\_\_ 4WD \_\_\_\_\_

 Interstate Route       US Route

SAINT CHARLES BA


2022

SAINT CHARLES BAY, TX  
2022

# TCEQ Interoffice Memorandum

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**To:** Industrial Permits Team  
Wastewater Permitting Section

**From:** Xing Lu, P.E.   
Modeler, Water Quality Assessment Team  
Water Quality Assessment Section

**Date:** September 20, 2024

**Subject:** Holiday Beach Water Supply Corporation  
Permit Renewal (WQ0004290000, TX0123871)  
Discharge to a tributary of Copano Bay/Port Bay/Mission Bay (Segment No. 2472)

The referenced applicant is proposing a renewal of its permit authorizing the discharge of 0.12 MGD of wastewater from a potable water treatment plant into the watershed of Copano Bay/Port Bay/Mission Bay (Segment No. 2472). The facility is located in Aransas County.

Due to the low levels of oxygen-demanding constituents expected from this type of discharge, no significant dissolved oxygen depletion is anticipated in the receiving waters as a result of this discharge.

Copano Bay/Port Bay/Mission Bay (Oyster Waters) (2472OW) is currently listed on the State's inventory of impaired and threatened waters, the **2022** Clean Water Act Section 303(d) list. The listing is for bacteria (oyster waters) in Mission Bay, the Aransas River Arm, Port Bay, and the eastern shoreline (AU 2472OW\_01). There are no other Segment 2472 303(d) impairment listings.

# TCEQ Interoffice Memorandum

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To: Industrial Permits Team  
Wastewater Permitting Section

From: Sarah Musgrove, Water Quality Assessment Team  
Water Quality Assessment Section

Date: September 18, 2024

Subject: Holiday Beach Water Supply Corporations  
Wastewater Permit No. WQ0004290000  
Critical Conditions Recommendation Memo

The following information applies to **Outfall 001**.

The TexTox menu number is **5** for a bay, estuary, wide tidal water body, or narrow tidal water body with no upstream flow.

This discharge is to an unnamed tidal ditch.

Segment No.	2472
Effluent Flow for Aquatic Life (MGD)	<10 (2-yr max)
% Effluent for Chronic Aquatic Life (Mixing Zone)	100
% Effluent for Acute Aquatic Life (ZID)	100
Oyster Waters?	No
Effluent Flow for Human Health (MGD)	<10 (2-yr avg)
% Effluent for Human Health	100

Human Health criteria apply for Fish Only.

The chronic aquatic life mixing zone is defined as a volume within a radius of 5 feet from the point of discharge. Chronic toxic criteria apply at the edge of the chronic aquatic life mixing zone.

The width of unnamed tidal ditch at the point of discharge is 10 feet. The ZID is defined as a volume within a radius of 1.25 feet from the point of discharge. The human health mixing zone is defined as a volume within a radius of 10 feet from the point of discharge.

## OUTFALL LOCATION<sup>1</sup>

Outfall Number	Latitude	Longitude
001	28.158806 N	97.00075 W

<sup>1</sup> Latitude and Longitude values are approximations of the location for administrative purposes.



# TCEQ Interoffice Memorandum

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**To:** Industrial Permits Team  
Wastewater Permitting Section

**From:** Jenna R. Lueg, Standards Implementation Team  
Water Quality Assessment Section  
Water Quality Division

**Date:** 8/8/2024

**Subject:** Holiday Beach Water Supply Corporation; Permit no. WQ0004290000  
Renewal; Application received 7/11/2024

The discharge route for the above referenced permit is to an unnamed tidal ditch, thence to tidal flats, thence to the Copano Bay Portion of Copano Bay/Port Bay/Mission Bay in Segment 2472 of the Bays and Estuaries. The designated uses and dissolved oxygen criterion as stated in Appendix A of the Texas Surface Water Quality Standards (30 Texas Administrative Code (TAC) §307.10) for Segment 2472 are primary contact recreation, exceptional aquatic life use, oyster waters, and 5.0 mg/L dissolved oxygen.

Since the discharge is directly to an unclassified water body, the permit action was reviewed in accordance with 30 Texas Administrative Code §307.4(h) and (l) of the 2022 Texas Surface Water Quality Standards and the TCEQ's *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), an antidegradation review of the receiving waters was performed. Based on available information, a preliminary determination of the aquatic life uses in the area of the discharge impact has been performed and the corresponding dissolved oxygen criterion assigned.

Unnamed tidal ditch; high aquatic life use, 4.0 mg/L dissolved oxygen.  
Tidal Flats; exceptional aquatic life use, 5.0 mg/L dissolved oxygen.

A priority watershed of critical concern has been identified in Segment 2472 in Aransas County. Therefore, the Whooping Crane, *Grus americana*, an endangered aquatic dependent species, has been determined to occur in the watershed of Segment 2472. To make this determination for Texas Pollutant Discharge Elimination System (TPDES) permits, TCEQ and EPA only considered aquatic or aquatic dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the United States Fish and Wildlife Service's (USFWS) biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. **The presence of the endangered Whooping Crane requires EPA review and, if appropriate, consultation with USFWS.**

The piping plover, *Charadrius melodus* Ord, a threatened aquatic dependent species, is found in the watershed of Segment 2472; however, the facility is not a petroleum facility and its discharge is not expected to have an effect on the piping plover. This determination is based on the United States Fish and Wildlife Service's (USFWS) biological opinion on the State of Texas

authorization of the Texas Pollutant Discharge Elimination System (TPDES; September 14, 1998, October 21, 1998 update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the piping plover.