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March 31, 2023

Ms. Jasmin Jefferies
Remedial Project Manager
Superfund Remedial and Technical Services Branch
U.S. Environmental Protection Agency, Region 4
Atlanta Federal Center
61 Forsyth Street
Atlanta, Georgia 30303-8960

Subject: **2022 Annual Report**
OU-1 and OU-2 Agrico Site
Pensacola, Florida
EPA ID: FLD 98022 1857

Dear Ms. Jefferies:

AECOM, on behalf of Phillips 66, successor to ConocoPhillips, and Williams Companies, Inc. representing Agrico Chemical Company, is submitting this 2022 Annual Report for the Agrico site in Pensacola, Florida. This report presents the results of monitoring and maintenance activities conducted during 2022 for the site and incorporates the EPA comments on the 2021 report dated July 5, 2022.

A hard copy of the report will be sent directly to the site document repository, the West Florida Regional Library, Genealogy Branch in Pensacola.

AECOM will be uploading the electronic data for 2022 to the EPA DART system as per the guidance memorandum from EPA Region 4's Superfund Division Director, requiring that environmental sampling data be submitted to EPA in a Region 4 electronic format.

Should you have any questions or require additional information regarding this report, please contact me at (850) 637-5018. You may also contact Mr. Chris McGowan (Phillips 66) at (337) 491-5292 or Mr. Lee Andrews (Agrico Chemical Company Representative) at (918) 573-6912 with any questions you have about the project or site.

Amy R. Mixon, P.E.
Project Manager

FINAL

2022 ANNUAL REPORT

AGRICO SITE
PENSACOLA, FLORIDA
OPERABLE UNITS ONE (OU-1) AND TWO (OU-2)

EPA ID: FLD 980221857

Submitted to

US Environmental Protection Agency, Region 4
Atlanta, Georgia

Prepared for

Phillips 66

and

Williams, Inc.
On behalf of
Agrico Chemical Company

March 31, 2023

AECOM
1625 Summit Lake Drive
Tallahassee, Florida 32317
850-688-9941

Certification By
Florida Registered Professional Engineer

In accordance with Chapter 471, Florida Statutes, the *2022 Annual Report for the Agrico Chemical Site, Operable Unit One (OU-1) and Operable Unit Two (OU-2)* located in Pensacola, Florida has been prepared by or supervised by the undersigned registered Florida Professional Engineer. AECOM Technical Services, Inc., (AECOM) has prepared this Annual Report in a manner consistent with sound engineering practices and the customary level of care and skill exercised by members of the profession currently practicing in the same locality under similar circumstances.

Information developed and presented by others was used by AECOM in good faith as representative of the site conditions. The work performed by AECOM is in conformance with the current standards of practice.

Digitally signed by Amy R Mixon
Date: 2023.03.31 14:08:38 -04'00'

March 31, 2023
Date

Amy R. Mixon, PE
Florida Professional Engineer
License No. 63774
Expiration Date 02/28/2025

This report has been electronically signed and sealed by Amy R. Mixon on 03/31/2023. Printed copies of this document are not considered signed and sealed.

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The activities being conducted for the Agrico Site in Pensacola, Florida are under the oversight of the U.S. Environmental Protection Agency (EPA), as outlined by the Consent Decrees (1994 and 1997) and the EPA Records of Decision (RODs) (1992 and 1994). The Site has been divided into two operable units (OUs). The first operable unit (OU-1) addressed the cleanup of on-site source material. The second operable unit (OU-2) addressed groundwater under the Site and downgradient of the Site. In 1995, remedial actions began for OU-1. Impacted soils and all sludge materials were collected and treated by solidification/stabilization. Additional fluoride-impacted soils were excavated. These soils, as well as the treated soils and sludge, were stabilized by placing them into an engineered, excavated, unlined area above the water-table and covering them with a multi-layered cap designed to prevent rainfall infiltration from contacting the materials. By keeping the underlying soil dry, the soils remain stabilized. The OU-1 remedial actions were certified complete by EPA in April 1997. With the source area controlled, EPA addressed OU-2, the groundwater, by selecting a monitored natural attenuation (MNA) remedy. The selected remedy involves actions aimed at limiting exposure while natural attenuation processes remediate the groundwater.

After extensive sampling of many constituents during the assessment phase (1990-1993), a risk evaluation was performed. The EPA selected seven constituents of concern (COCs) for initial long-term groundwater and surface water monitoring. For OU-1, these COCs included lead, arsenic, and fluoride. These were soil COCs and since the soils were stabilized on-site, monitoring of these constituents in the groundwater provided for assessing the integrity of the OU-1 remedy over time. For OU-2, these constituents include arsenic, fluoride, combined radium 226 plus radium 228, chloride, sulfate, and nitrate plus nitrite. The groundwater performance standards established by each of the RODs for OU-1 and OU-2 are as follows:

- Total Lead 0.015 milligrams per liter (mg/L)
- Total Arsenic 0.050 mg/L
- Fluoride 4.0 mg/L
- Radium 226 +228 5.0 pico Curies per liter (pCi/L)
- Chloride 250 mg/L
- Sulfate 250 mg/L
- Nitrate + nitrite 10 mg/L (analysis of nitrite indicates results at all groundwater monitoring locations are less than detection limit and a higher performance standard is appropriate; nitrite analysis discontinued as per EPA approval, January 22, 2007).

In January 2005, FDEP changed their arsenic drinking water standard to 0.010 mg/L. EPA also revised the federal drinking water standard for arsenic to 0.010 mg/L effective January 23, 2006. As a result, the performance standard for arsenic for the Site was also revised in 2005 to 0.010 mg/L to be compliant with the new state and federal standards.

Beginning in November 2005, changes were approved for the long-term monitoring network. In 2005, an upgradient groundwater monitoring well (PIP-D) was added to the network. In 2007, the OU-1 monitoring well network was merged with the OU-2 monitoring network to form the long-term site-wide network. Initially all constituents were monitored in the OU-1 wells. In 2007, nitrite was eliminated as a constituent since it was determined that the nitrogen detected was only nitrate. Also, in 2007, surficial zone monitoring wells AC-5S, AC-24S, AC-26S, NWD-2S, and

NWD-4S were changed from long-term monitoring to periodic monitoring. In 2009, periodic monitoring wells, AC-9D2, AC-24D, and AC-28D were changed to annual sampling locations. In 2010, arsenic and lead were discontinued from the list of analytes for the long-term network including monitoring wells located in OU-1. Per the EPA-approved (February 5, 2010) recommendation from the *Evaluation of Monitored Natural Attenuation in Groundwater Report* (August 19, 2009), arsenic was deleted from the list of analytes for the long-term monitoring well network except at AC-2S and AC-3S. In 2010, the surface water long-term monitoring network changes included the deletion of the upstream monitoring of Carpenter's Creek (ACSW-BL). Other changes for 2010 included three additional monitoring stations in Bayou Texar. These stations included near-bottom surface water sampling for fluoride only.

During 2019, monitoring wells AC- 14D, AC- 26S, AC- 26D, and AC- 36D were recommended for removal from the long-term monitoring well network because they had been destroyed by the City of Pensacola stormwater upgrade projects. EPA agreed with the recommendation to remove all four wells from the monitoring well network, but EPA stipulated that if wells upgradient of these former well locations begin to show significant groundwater COC concentration increases, replacement wells would be required. Replacement of AC- 14D, AC- 26S, AC- 26D, and AC- 36D will be considered pending future groundwater quality data and trends in surrounding monitoring wells.

For 2022, the sampling program was implemented in accordance with the Florida Department of Environmental Protection (FDEP) Memorandum dated March 10, 2015, and approved by EPA on May 29, 2015, that included the following:

1. At a minimum, annual groundwater monitoring will continue for the following wells: ACB-31S, AC-2S, AC-2D, AC-3D, AC-29D, AC-24D, AC-25D, AC-35D, AC-12D, and AC-13D for the existing set of parameters. Groundwater elevations shall continue to be measured in all Agrico monitoring wells prior to initiating sampling.

2. At a minimum, annual surface water monitoring should continue for the following locations: BT-02, BT-107, and BT-127 for fluoride only. A map showing the location of the surface water stations relative to the plume should be included.

3. The full plume network and surface water network should be sampled every 5 years to correspond with the Five-Year Review. The full plume network, with a few exceptions discussed in Section 5.1, was sampled in November 2019. The next comprehensive event is scheduled for November 2024.

4. Trend Plots for each constituent of concern shall continue to be updated for each sampling event for the wells sampled.

5. Other annual activities should continue as in previous years for the Agency Coordination Memorandum, the Florida Department of Transportation (FDOT) inquiry for intrusive activity, the Advisory Notice to Water Well Contractors/Irrigation System Installers/Pool Contractors, and a check of the Northwest Florida Water Management District (NWFWMD) construction permits for new wells within the Delineated Area.

6. Site and cap integrity inspections shall continue semiannually and after major storm events.

The Site is currently in the long-term Operations and Maintenance (O&M) phase, with MNA as the selected groundwater remedy.

This 2022 Annual Report presents the results of groundwater activities conducted for the annual sampling program. The 2022 O&M tasks were as follows:

- Annual groundwater sampling for the defined COCs (fluoride, radium 226, radium 228, chloride, sulfate, and nitrate) from 10 groundwater monitoring wells. Data collected during the annual sampling events are used to evaluate the effectiveness of the MNA remedy for groundwater.
- Annual surface water sampling in Bayou Texar from three locations for fluoride. This sampling is to assess the surface water quality for potential effects from the groundwater discharge.
- Distribution of annual advisory notices to water well contractors, irrigation system installers, and pool contractors to inform these contractors of the area where groundwater impacts related to the Agrico plume are located. The annual advisory also informs them of the well construction moratorium in effect by the NWFWMD.
- Review of the NWFWMD well construction permit records to confirm that no wells have been inadvertently installed within the OU-2 moratorium area. Because of the existing well construction moratorium, the expectation is that no new wells will be permitted in this area.
- Activities related to coordination and dissemination of site information to local, regional, and state agencies.
- Site inspection reporting and site maintenance activity.

OPERABLE UNIT ONE REMEDY

The OU-1 remedy addressed the cleanup of the source on-site. EPA approved the source remedy in the 1992 OU-1 ROD, and it included excavation, solidification, and stabilization for on-site soils and sludge. Following the ROD issuance, actions by Conoco were initiated to re-acquire ownership of the property so that the OU-1 remedy could be implemented.

In 1995, remedial construction activities began. Lead and arsenic-impacted soils and all sludge materials were collected and treated by solidification/stabilization using cement. Other fluoride-impacted soils were collected for consolidation. These consolidated soils and treated soils and sludge were installed in lifts and compacted in the excavation based on engineering designs and standards. The material was placed approximately 20 feet above the saturated groundwater level within the unsaturated, dry portion of the sediments underlying the Site. The source control was certified by EPA to be complete in April 1997.

OPERABLE UNIT TWO REMEDY

The remedy chosen by EPA for the impacted groundwater associated with the Agrico Site is MNA. The 2022 results indicate that the Agrico plume continues to be adequately defined. The 2022 sampling results compare favorably to past sampling results, which indicate that the source area remains controlled. The decreasing and stable trends in the surficial and main producing zones are a result of the OU-1 source control measures which have allowed natural attenuation processes to

be effective downgradient. The source area remedy remains an effective measure in eliminating migration of COCs from the OU-1 area to the groundwater.

Monitored Natural Attenuation Results

An evaluation of MNA at the Site was performed by William A. Huber, Ph.D., Quantitative Decisions (Rosemont, Pennsylvania) in 2009. Dr. Huber concluded in his report that the data show that mechanisms for attenuation are in place throughout the OU-2 area. These mechanisms and the OU-1 source remedy are resulting in decreasing concentrations that are propagating downgradient toward Bayou Texar. For the plume area, the highest concentrations for each COC are declining and downgradient peaks are less than historical highs. Some limited increases are periodically observed in a few wells, but these concentrations are less than the historical highs. Huber's statistical evaluation estimated that much of the groundwater will reach the target concentrations within two to three decades (~ 2030). However, attenuation in the discharge area near Bayou Texar may take longer. The processes at the discharge boundary are more complex and do not follow the upgradient timeline. Additionally, radium declines may lag behind the other COCs and are more dependent on increases in pH as the overall chemical conditions improve upgradient. Initial fate and transport modeling performed for the Site in the early 1990s suggested targets would not be reached for at least 70 years. About 25 years (1997 - 2022) have passed since the source controls were implemented. Based on Huber's 2009 statistical evaluation, achieving the targets within the approximately 45 years remaining in the originally estimated timeframe (~ 2070) is still reasonable.

The statistical uncertainty for the Agrico data set is low. Data are consistent within each well and show relatively little random variability. This consistency indicates that allowed enough time, attenuation will eventually occur everywhere within the OU-2 area.

Groundwater Sampling Results

Groundwater results for November 2022 continue to compare favorably to past results.

Concentration trends within the surficial shallow zone are mostly stable/decreasing. Impacts to the surficial zone are limited. This is a direct result of effective source control and local hydrogeologic conditions.

For the deeper main producing zone, the trend in concentrations is generally downward and stable, also indicating continued plume stability.

Slight upward or downward ticks in the concentrations for the COCs are to be expected over time. It is the long-term trend for each COC that is important.

Groundwater Levels

During 2022, water levels in both the shallow and deep aquifers near the Site decreased on average approximately 2.0 feet as compared to 2021. Cumulative rainfall was lower in 2022 versus 2021 and was 69.06 inches in 2022 versus a cumulative total of 88.42 inches in 2021 (**Figure 7**).

Results of water level measurements collected in November 2022 indicate that groundwater flow remains toward Bayou Texar for both the surficial zone and main producing zone. In 2022, groundwater flow patterns closely followed historical patterns.

Bayou Texar Sampling Results

The long-term surface water results indicate that groundwater from the Agrico Site is not adversely affecting Bayou Texar. Near-bottom surface water sampling in November 2022 indicated that fluoride concentrations increased slightly from the 2021 value at one location (BT-02); however, concentrations decreased in the other two locations; and all concentrations remain within historical levels and well below the applicable surface water standard (SWS).

The evaluation (URS, September 4, 2009) of the primary discharge area for the Agrico plume in Bayou Texar indicates there is no significant risk to populations of demersal fish or to benthic macroinvertebrate communities that inhabit the reach due to fluoride concentrations. Furthermore, results indicate the fluoride solubility in the majority of surface sediments and in all pore waters within the primary discharge area for the Agrico plume is controlled by mineral precipitation reactions. This reaction causes dissolved fluoride concentrations to be buffered in near surface sediment pore water and in surface water in this primary discharge reach of Bayou Texar.

NWFWMD Well Construction Moratorium

For 2022, no additional irrigation wells were identified from the NWFWMD well construction permit records. The well construction moratorium initiated in February 2001 is still in effect and has no termination date. In a public meeting held on March 27, 2017, discussions with NWFWMD representatives indicated that they were not inclined to end the well construction moratorium. Well prohibition for the defined area which includes the Agrico groundwater plume area is part of NWFWMD's Rule 40A-3.

Advisory Notice

The annual advisory notice was distributed to water well contractors, irrigation system installers, and pool contractors to inform them of the groundwater conditions and the existence of a well construction moratorium within the OU-2 area.

Institutional Controls Coordination

A memorandum was distributed on February 21, 2022, to the local, regional, and state agencies listed below, soliciting information for any changes or proposed new regulatory rules or policies that may affect the institutional controls currently in place for the area. No agencies responded with any items that might affect the controls in place. The notified agencies included:

FDEP, Tallahassee and Pensacola
Emerald Coast Utilities Authority (ECUA) (formerly Escambia County Utilities Authority)
NWFWMD
City of Pensacola
Escambia County Health Department (ECHD)
Escambia County Neighborhood and Environmental Services Department
FDOT, District Three (Chipley)

FIVE-YEAR REVIEWS

Four Five-Year Reviews have been conducted by EPA for the Agrico Site. The First Five-Year Review occurred in 2000, the Second Five-Year Review occurred in 2004-2005, the Third Five-Year Review occurred in 2010, and the Fourth Five-Year Review occurred in 2015. In 2019, the Fifth Five-Year Review sampling event occurred, and the results were reported in EPA's 2020 Five-Year Review Report. Each of the reports concluded that the remedy at the Site is functioning as intended by the RODs for OU-1 and OU-2 and remains protective of human health and the environment. The O&M activities were to be continued and conducted as approved. The next (sixth) Five-Year sampling event will occur in 2024 and will be reported in EPA's 2025 Review Report.

BUTTERFLY HABITAT

In June 2014, President Obama issued a memorandum establishing a Pollinator Health Task Force, co-chaired by the U.S. Department of Agriculture (USDA) and EPA, to create a National Pollinator Health Strategy that promotes the health of honeybees, butterflies, and other pollinators. Early in 2015, EPA approached AECOM regarding the possibilities of the Agrico Site being used to enhance butterfly habitat. The responsible parties approved participation in this initiative, and in August 2015 a portion of the Site was converted to flowering plant beds. The goal is to establish a plant habitat that will attract butterflies to provide a safe area for feeding and support of the butterfly's life cycle. Maintenance of the habitat was conducted in 2022 and will continue in 2023.

RECOMMENDATIONS

(In accordance with Regulatory Agency Requirements)

- Groundwater and surface water sampling will continue for 2023 as last modified by the March 10, 2015, FDEP Memorandum and updated by EPA concurrence of the recommendations included in the 2019 groundwater monitoring report.
- Operations and maintenance, including mowing related to OU-1, will continue in accordance with the OU-1 O&M Plan as amended November 18, 2009, and approved by EPA on January 25, 2010. This also includes maintenance of the butterfly habitat areas.
- The advisory notice to contractors and the query of the NWFWMD well construction permit database will continue annually.
- The Agency Coordination Memo and the FDOT inquiry for intrusive activity will continue annually.

AECOM Technical Services, Inc. (AECOM) through URS Corporation (URS), a wholly owned subsidiary, has prepared this 2022 Annual Report on behalf of Phillips 66 Company and Agrico Chemical Company represented by Williams Companies, Inc. (Williams) and in accordance with the following:

- U.S. Environmental Protection Agency (EPA) Consent Decree (CD) dated May 4, 1994, and the March 10, 1997, amended Consent Decree for the Agrico Site (Agrico);
- The Record of Decision (ROD) for Operable Unit One (OU-1) issued on September 29, 1992;
- The Operation and Maintenance (O&M) Plan for OU-1 dated September 1996 including Appendix I – Groundwater Monitoring Plan by Woodward-Clyde Consultants;
- The ROD for Operable Unit Two (OU-2) issued August 25, 1994;
- The Scope of Work (SOW) which outlines the work to be performed as the remedy for OU-2;
- The EPA-approved (April 26, 1999) Remedial Action Work Plan and related plans;
- The O&M Plan dated November 1998;
- The *Evaluation of Long-Term Groundwater Monitoring Network – Section 12 - Recommendations*, Technical Memorandum Report dated November 30, 2006, and subsequent EPA approval of recommendations in EPA comment letter dated January 22, 2007;
- The EPA approval dated September 2, 2008, to discontinue OU-1 semi-annual sampling and to perform annual sampling. The last OU-1 semi-annual sampling event was conducted in May 2008;
- Minor O&M recommendations dated November 18, 2009, approved by the EPA on January 25, 2010;
- Recommendations in the report, *Evaluation of Monitored Natural Attenuation in Groundwater* (August 19, 2009- William Huber) and approved by EPA on February 5, 2010;
- EPA's Third Five-Year Review (June 2010) recommendations related to surface water sampling locations for Bayou Texar;
- Recommendations in the second report, *Evaluation of Monitored Natural Attenuation in Groundwater* (October 23, 2013-William Huber);
- FDEP's recommendations in their memorandum outlining a modified annual sampling program issued on March 10, 2015, and approved by EPA on May 29, 2015; and
- Recommendations included in the *2019 Annual Report, Operable Units One (OU-1) and Two (OU-2), Agrico Site, Pensacola, Florida*.

This is the twenty-fourth annual report, since the initial one in 1999. The report documents both OU-1 and OU-2 activities performed at the Site for 2022. The comprehensive annual report was preceded by OU-1 semi-annual sampling results reported annually from 1997-1999. These OU-1 annual reports continued through 2005. The annual report for OU-2 was submitted separately from the OU-1 report from 1999 through 2005. One of the recommendations of the evaluation of the long-term monitoring network (URS, November 30, 2006) was to combine these networks. Beginning with the 2007 Annual Report, the groundwater requirements were integrated so that OU-1

(on-site) and OU-2 (off-site) groundwater impacts could be readily evaluated. Per request by EPA, since November 2007, groundwater from the OU-1 monitoring wells has been analyzed for the same constituents of concern (COCs) as the OU-2 monitoring wells.

EPA approved (September 2, 2008) the integration of the groundwater monitoring requirements for OU-1 and OU-2 so that the monitoring satisfies the original OU-2 monitoring objective - monitoring of the surficial zone and main producing zone, on-site and off-site - downgradient of the Site for the purpose of evaluating the monitored natural attenuation (MNA) remedy. The original monitoring objective for OU-1 was only to evaluate the effectiveness of the Resource Conservation and Recovery Act (RCRA) cap remedy. The effectiveness was demonstrated by a statistical evaluation that confirmed the integrity of the containment system with data collected from 1997 to 2001. Data collected since 2001 continue to confirm cap effectiveness.

Summary of Sampling Modifications Initiated in November 2007

- Semi-annual sampling of OU-1 groundwater monitoring wells was discontinued and changed to annual sampling to be conducted in November each year. The OU-1 surficial zone monitoring wells, ACB-31S, ACB-32S, AC-33S, AC-34S, and AC-7SR, were integrated into a site-wide groundwater monitoring network. The analyte list for these wells was changed to include the OU-2 analyte list. In addition to total lead, total arsenic and fluoride (COCs in the OU-1 ROD), the groundwater samples from these wells were analyzed for chloride, sulfate, nitrate, radium 226, and radium 228 (COCs in the OU-2 ROD).
- Nitrite was deleted from the Site's analyte list as modified by implementation of EPA-approved long-term monitoring evaluation recommendations (URS, 2006d).
- Surficial zone monitoring wells AC-5S, AC-24S, AC-26S, NWD-2S, and NWD-4S were changed from long-term to periodic monitoring wells. Additionally, monitoring well NWD-3S was removed from the monitoring network because it was destroyed during off-site construction.
- The groundwater sampling purging procedure was changed from extracting a minimum of three well volumes to a low-flow purge procedure that allows for collecting water quality field parameters after one well volume is purged, and then one-quarter well volume thereafter until three stable water quality parameter readings are collected. This procedure is in accordance with the FDEP standard operating procedure (SOP) for sampling monitoring wells.
- Annual reporting for OU-1 and OU-2 was combined into one annual report. Prior to November 2006, annual reports were prepared separately for OU-1 and OU-2.

Summary of Sampling Modifications Initiated in November 2009

- Additional groundwater sampling was requested by the EPA in their comment letter dated October 15, 2009, regarding the *Evaluation of Monitored Natural Attenuation in Groundwater Report*. The additional wells included periodic monitoring wells AC-9D2, AC-24D, and AC-28D. COCs to be analyzed from the groundwater at these locations were the same as the long-term network COCs. The status of these wells was changed from periodic to long-term until sufficient sampling results were collected on an annual basis.

Summary of Sampling Modifications Initiated in November 2010

- Analysis of lead and arsenic were discontinued from the long-term network groundwater analyses for monitoring wells based on the EPA approval (February 5, 2010) of recommendations in the August 19, 2009, *Evaluation of Monitored Natural Attenuation in Groundwater.* In that report, the absence of arsenic and lead in groundwater samples collected from the monitoring well network was reported. The exceptions were AC-2S and AC-3S. Total arsenic will continue to be analyzed for these two wells to verify the continued effectiveness of the OU-1 cap.
- Sampling of Carpenter's Creek at the 9th Avenue Bridge (ACSW-BL) was discontinued as per January 25, 2010, approval of the November 18, 2009, *Recommendations to Operations and Maintenance Plans for OU-1 and OU-2* (URS 2009d).
- Three surface water sampling locations in Bayou Texar were added to the sampling program and include BT-02, BT-107 and BT-127. These near-bottom surface water samples are analyzed for fluoride only (EPA recommendation in June 2010, Third Five-Year Review Report).

Summary of Sampling Modifications Initiated in November 2016

Based on FDEP Memorandum dated March 10, 2015, and the subsequent EPA approval dated May 29, 2015:

- Only the following monitoring wells will be sampled annually for the same constituents as have been analyzed historically: AC-31S, AC-2S, AC-2D, AC-3D, AC-29D, AC-24D, AC-25D, AC-35D, AC-12D, and AC-13D.
- Water levels from all Agrico monitoring wells will be measured annually prior to initiating sampling.
- Surface water monitoring will include the following locations: BT-02, BT-107, and BT-127. Only fluoride will be analyzed from each sample collected.
- Trend plots for the above groundwater monitoring wells will be included in each annual report for all COCs.
- The annual Advisory Notice, the Annual Agency Coordination Memo, the Florida Department of Transportation (FDOT) annual inquiry regarding intrusive activity, and the annual checking of the Northwest Florida Water Management District (NWFWMD) records for newly constructed wells within the designated well construction moratorium area will continue as previously documented in the Site O&M plans.
- Site and cap integrity inspections will continue twice a year and after major storm events.
- The full Agrico groundwater monitoring network and surface water network will be sampled every 5 years as part of the EPA's Five-Year Review.

Summary of Sampling Modifications Initiated in November 2019

Based on EPA concurrence (EPA memorandum dated June 2, 2020) with recommendations made in the *2019 Annual Report, Operable Units One and Two (OU 1, OU 2), Agrico Site, Pensacola, Florida*, March 2020. AC- 14D, AC- 26S, AC- 26D, and AC- 36D have been removed from the

monitoring well network. Evaluation of the need to replace one or more of these wells will be made following future sampling events and will be based on COC concentrations and trends in upgradient wells.

1.1 FIVE-YEAR REVIEWS

The EPA has conducted five Five-Year Reviews for the Agrico Site. The results of these reviews were presented in the February 2000, July 2005, June 2010, June 2015, and May 2020 EPA reports. Each of the five reviews concluded that (1) all areas were in compliance and (2) the remedy at the Site is functioning as intended by the RODs for OU-1 and OU-2 and remains protective of human health and the environment. The sixth EPA Five-Year Review report will be prepared in 2025 based on November 2024 data.

2.1 SITE DESCRIPTION

The Agrico Site is located at 118 East Fairfield Drive, at the northwest corner of Fairfield Drive and Interstate I-110 in Pensacola, Escambia County, Florida. The Site consists of 29.84 acres in Township 2 South, Range 30 West of Section 5, and the latitude and longitude at the center of this area is 302709.8914 degrees west and 871318.9648 degrees north, respectively. The Site is bordered by I-110 to the east, Fairfield Drive to the south, CSX railroad to the west, and a construction aggregate business (Vulcan Materials/Conrad Yelvington Distribution) to the north. An approximately 100-foot wide Gulf Power Company easement and overhead electrical lines pass through the Site at the eastern boundary of property. Site access is from the north side of Fairfield Drive, approximately 600 feet west of the I-110 overpass. Uncle Bob's Self Storage operates storage warehouses on an Agrico Site out-parcel in the south-central area. The Site location is shown on **Figure 1**.

2.2 SITE ACCESS AND DEED RESTRICTIONS

Access to the Agrico Site is restricted. The property is secured by a perimeter chain link security fence with locked gates, and the Site is regularly inspected. Restrictive and Site informational signs are posted advising the public of the on-site conditions, and an AECOM contact phone number is also posted for inquiries. Posted signs are present at the entry gates of the fenced OU-1 property. The wording on the signs is as follows:

> Authorized Personnel Only
> Please Do Not Disturb Soil Cover
> Impacted Waste Material May Be Present Below the Ground Surface
> For Information Call 850-637-5018

A Restrictive Covenant (**Appendix C**) for the Site was filed against the property deed with the Escambia County Clerk of the Circuit Court and is dated July 11, 1997. The Restrictive Covenant states, in summary, that construction or related activities that would interfere with maintaining the Site remedial measures are prohibited by the legal deed restrictions. Per the covenant, any use of the property contrary to the ROD is prohibited.

2.3 DOCUMENT REPOSITORY

EPA maintains Site information at the University of West Florida Library. This repository contains project documents, fact sheets, and reference material. EPA encourages the public to review these documents to gain a more thorough understanding of the Site. The address of the library is as follows:

University Archives and West Florida History Center
University of West Florida Libraries
Building 32
11000 University Pkwy
Pensacola, Florida 32514
850-474-2213

EPA has Site information located at the following web site:

https://cumulis.epa.gov/supercpad/cursites/csitinfo.cfm?id=0400818

A Site website developed for the Agrico Pensacola Site is located at:

http://www.agricopensacola.com/

This website contains general information about the Agrico Site, contains the Site fact sheets, and provides contact information for EPA. A documents' page has been added, and electronic files for several reports have been uploaded to this page. The reports that are now accessible via this website include:

- Evaluation of Monitored Natural Attenuation in Groundwater (URS, 2009)
- The Third Five-Year Review Report (E2 Inc., 2010)
- The 2011 Annual Report (URS, 2012)
- The 2012 Annual Report (URS 2013)
- Evaluation of Monitored Natural Attenuation in Groundwater (Report #2), (URS, October 2013)
- The 2013 Annual Report (URS 2014)
- The 2014 Annual Report (URS 2015)
- The Fourth Five-Year Review Report for Agrico Chemical Company (EPA, June 2015)
- The 2015 Annual Report (AECOM 2016)
- The 2016 Annual Report (AECOM 2017)
- The 2017 Annual Report (AECOM 2018)
- The 2018 Annual Report (AECOM 2019)
- The 2019 Annual Report (AECOM 2020)
- The Fifth Five-Year Review Report for Agrico Chemical Company (EPA, May 2020)
- The 2020 Annual Report (AECOM 2021)
- The 2021 Annual Report (AECOM 2022)

2.4 SITE HISTORY

The former facility at the Agrico Site was a superphosphate process facility not a continuous wet-process phosphoric acid facility that became dominant in the phosphoric fertilizer industry starting in the 1960s and 1970s and continuing during the modern era. According to the U.S. Department of Agriculture and Tennessee Valley Authority document titled *Superphosphate: Its History, Chemistry, and Manufacturing* (December 1964), the Irish firm known as W. & H. M. Goulding, Ltd. of Dublin, Ireland, opened the Goulding Fertilizer Company, Pensacola, Florida, factory in 1891 at the current Agrico Site location. The Goulding Fertilizer Company plant had an annual fertilizer production capacity of 45,000 tons. A sulfuric acid manufacturing plant co-existed on the Site. The source of sulfur was pyrite ore. The phosphate for manufacturing the fertilizer was transported via rail from Central Florida mines. The Pensacola plant started operations by manufacturing normal superphosphate, and then operated as a concentrated superphosphate plant (the second of its kind in the U.S. at the time) from 1898 to 1901. Operations by the Goulding Fertilizer Company continued until 1911, when the factory was sold to an American interest, The American Agricultural Chemical Company (TAACC).

TAACC manufactured normal superphosphate and continued the manufacturing of sulfuric acid using pyrite ore until 1920, when the source of sulfur dioxide was changed to elemental sulfur.

TAACC operated the plant through 1963, when Continental Oil Company (Continental) purchased the assets of TAACC (U.S. Department of Agriculture, 1964).

After the acquisition of TAACC, Continental operated the agrichemical business as the Agrico Chemical Company, a wholly owned subsidiary of Continental. From 1963 to 1972, Agrico Chemical Company used the same manufacturing process as was used during the TAACC period (U.S. Department of Agriculture, 1964). From 1967 to 1968, in addition to producing virgin acid from sulfur, the plant purchased and utilized an unknown volume of spent sulfuric acid (Geraghty & Miller, 1993a and 1993b). Continental operated the plant until 1972.

In April 1972, The Williams Companies, Inc. (Williams) (Tulsa, Oklahoma) purchased the assets associated with Agrico Chemical Company from Continental Oil's Agrico Chemical Division. Under Williams, Agrico Chemical Company operated as a newly formed Delaware corporation and subsidiary of Williams. At that time, Agrico Chemical Company was one of the country's largest chemical fertilizer companies. In 1972, the Pensacola plant began manufacturing monoammonium phosphate in addition to superphosphate and continued this manufacturing from 1972 to 1975. Normal superphosphate was combined with ammonia to produce monoammonium phosphate. The ammonification process produced nitrate. The macronutrient potassium was blended into the ammoniated phosphate product in various blends. The potassium source was potash, mostly potassium chloride, stored on-site, inside the plant, on concrete floors. In later years, two micronutrients, zinc and magnesium, were added to the ammoniated phosphate product blends at the plant. According to the plant manager and Agrico corporate purchasing agent, the macronutrient and micronutrient were purchased as pure products and not as by-products. The peak season for production at the Pensacola plant was March through June. Agrico Chemical Company operated the plant continuously until June 1975, when the plant was shut down (Geraghty & Miller 1993a and 1993b).

The former plant property was sold to Margod, a Florida partnership, and F.A. Baird, Jr. in August 1977. The former plant buildings and process equipment were demolished in late 1979. After demolition, only the concrete foundations remained in place. A storage warehouse was constructed on the southern portion of the property adjacent to Fairfield Drive between 1979 and 1981, with additional warehouse construction taking place between 1981 and 1986. The warehouse area is considered an out parcel of the original property. The Agrico Chemical Company assets were sold to Freeport-McMoRan Resources Partners (Freeport McMoRan) in 1987. The Site property (except for the storage warehouse outparcel) was sold to Conoco, Inc. in 1995.

Most of the remaining Site debris and concrete foundations were later consolidated and placed with the waste material under the RCRA cap during the OU-1 Remedial Action (RA) activities beginning in 1995. There are no permanent buildings from the original operations remaining on the Site. One foundation from an original Site building remains in the southwest portion of the property.

EPA conducted a hazardous waste site investigation at the facility in October 1983. The results of the study indicated that the on-site soils and an on-site surface water impoundment were impacted with elevated levels of fluoride and lead. Groundwater was not sampled during that investigation. However, an effort was made to locate private shallow wells in the vicinity of the Site, and none were located.

The Florida Department of Environmental Regulation (FDER) (now FDEP) conducted a groundwater assessment at the Site in January 1987 (Watts, et.al., July 1988) followed by a

supplementary assessment in January and February 1989 (Watts, et.al., August 1989). The study concluded that the Site contaminants, primarily fluoride and sulfate, had impacted the area groundwater. While conducting the assessment for the former Agrico Site, FDER discovered contamination from the former Escambia Treating Company (ETC) Site that had comingled with a portion of the Agrico plume.

EPA listed the Site on the National Priorities List (NPL) on October 4, 1989. Conoco, Inc. and Freeport McMoRan (parents of the Agrico Chemical Company) entered into an Administrative Order on Consent (AOC) on September 29, 1989. According to the terms of the AOC, the companies agreed to conduct source (soils) and groundwater investigations at the Site. The Site was remediated starting in 1995, and remediation of impacted soils and sludge was certified complete by EPA in April 1997.

Currently, Williams (on behalf of Agrico Chemical Company) and Phillips 66 (representing Conoco, Inc.) are responsible for implementing the activities associated with the O&M Plans for OU-1 and OU-2. In mid-2012, ConocoPhillips separated into two standalone companies. The environmental remediation activities conducted at the Agrico Site in the past by ConocoPhillips are now managed by Phillips 66.

2.5 OPERABLE UNIT ONE REMEDY

Figure 2 shows a recent aerial photograph of the Site and the current features associated with OU-1 that represents the on-site source of contamination. A ROD for OU-1 issued by EPA Region 4 on September 29, 1992, selected the stabilization and cap remedy to address contamination of on-site soils and sludge. The selected remedy was based on a Site remedial investigation and feasibility study, including human health and environmental risk assessments, and site soil and groundwater characterization. Following the ROD issuance, Conoco initiated actions to re-acquire ownership of the property so that the remedy could be implemented.

In 1995, remedial construction activities began. Lead and arsenic-impacted soils and all sludge materials were collected and treated by solidification/stabilization using cement. Other fluoride-impacted soils were collected for consolidation. These consolidated soils and treated soils and sludge were installed in lifts and compacted in the excavation based on engineering designs and standards. The material was placed approximately 20 feet above the saturated groundwater level within the unsaturated, dry portion of the sediments underlying the Site. The source control was certified complete by EPA in April 1997.

On the surface, the material was covered with a 4-foot thick multi-layered engineered cap designed to prevent rainfall from contacting the underlying stabilized soils. The cap covers an area of 12 acres. The impervious nature of the cap causes storm water runoff volumes to be significantly greater than the volume generated before the construction of the remedy. For this reason, an elaborate system of piping and runoff collection devices was installed at the Site. The storm water collection system significantly minimizes runoff flowing off the Site. Runoff generated on-site is collected and contained on-site by returning it to one of two storm water management impoundments constructed as part of the OU-1 remedial action. Because the north storm water impoundment is located upgradient from the stabilized soils, EPA required that a slurry wall be constructed between the north storm water impoundment and the stabilized containment area. The purpose of the slurry wall is to prevent infiltrating storm water from contacting the stabilized materials that are contained within the unsaturated subsurface containment area. A continuous

limonite lens (a thin iron precipitation concretion) underlies the north storm water pond. This dense lens causes standing water for extended periods of time within this pond. The south drainage pond is not underlain by the limonite layer and storm water readily infiltrates into the subsurface beneath this pond so that the south pond is dry most of the time.

The following actions were performed as part of the OU-1 remedial action completed in April 1997:

- Excavated and solidified approximately 45,000 cubic yards of arsenic- and lead-impacted soil and contaminated sludge and soils from Site sludge ponds.
- Consolidated approximately 110,000 cubic yards of fluoride-impacted soils.
- Placed rubble from building foundations and consolidated soils in a layered fashion within the excavation area, with the uppermost portion of the excavation filled with solidified/stabilized soils and sludge.
- Constructed an engineered 4-feet thick, seven-layer cap, consisting in part of impervious fabric, High Density Polyethylene (HDPE) liner, and geotextile materials, over the stabilized soils within the containment area.
- Constructed a 700-feet long, 2-feet thick slurry wall upgradient of the containment area to prevent infiltrating storm water from contacting consolidated/stabilized soils.
- Installed a drainage collection system so that storm water generated on-site is contained on-site in one of two storm water impoundments, preventing off-site runoff.
- Attached deed restrictions to the property controlling future uses of the property, assuring protection of the containment structure.
- Installed security fencing with locked gates to restrict unauthorized access to the property.
- Constructed five monitoring wells to serve as long-term groundwater sampling locations to evaluate the effectiveness of the implemented OU-1 remedial action. These five monitoring wells were monitored to demonstrate the effectiveness through 2007. After 2007, the wells were integrated and combined with the OU-2 wells to form a site-wide groundwater monitoring network. The purpose of this site-wide network is to demonstrate the effectiveness of the MNA remedy for groundwater.

2.5.1 Operations and Maintenance

Regular activities are conducted for the Site in accordance with the EPA-approved O&M Plan for OU-1 (September 20, 1996).

Elements of the O&M for OU-1 are as follows:

- General facility inspection and regular lawn care service for the Site. The grass is cut on at least a monthly basis between October and April and on at least a biweekly basis between May and September.
- Visual inspections of the drain inlet and outlet system are conducted during mowing and after storm events with maintenance initiated, as required.
- Documented O&M inspections of the Site are conducted at a minimum of twice a year and following major storm events.

The inspection reports for 2022 are presented in **Appendix D**.

2.6 OPERABLE UNIT TWO REMEDY

The ROD for OU-2 was issued by EPA Region 4 on August 25, 1994. The OU-2 ROD presents EPA's selected RA for treatment of groundwater. The following discussion is based on the August 1994 ROD and includes the rationale for the selected OU-2 remedy. The OU-2 area is shown on **Figure 3** and was delineated to correspond to the previously completed irrigation well survey area. This area encompasses a larger area than the defined groundwater impact area. The OU-2 area is roughly bound by Palafox Street to the west, E. Cross Street to the south, Fairfield Drive to the north, and Bayou Texar to the east.

The EPA selected MNA as the remedy, and MNA meets all EPA and Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) criteria. The remedy is protective of human health and the environment and complies with federal and state requirements that are legally applicable or relevant and appropriate to the RA. This remedy utilizes permanent solutions and alternative treatment (or resource recovery) technologies to the maximum extent practicable. The reduction of toxicity, mobility, and volume of the Site groundwater contamination has been controlled through source control (OU-1) and MNA (OU-2).

EPA views the MNA remedy at least as protective of human health and the environment as the pump-and-treat technology alternatives that were previously considered for this Site. Additionally, MNA avoids potentially adverse impacts associated with the groundwater extraction and treatment alternatives.

2.7 ANNUAL O&M TASKS FOR OPERABLE UNITS ONE AND TWO

The field activities associated with this 2022 Annual Report included the following O&M tasks:

- Annual groundwater sampling of 10 long-term groundwater monitoring wells (for both OU-1 and OU-2).
- Annual surface water sampling at three surface water sampling locations within the primary groundwater discharge reach of Bayou Texar.
- Annual advisory notices distributed to water well contractors, irrigation system installers, and pool contractors. This list of contractors was compiled from the NWFWMD list of licensed water well contractors, from Escambia County construction permit records, and from the telephone directory.
- Coordination and dissemination of site information to local, regional, and state agencies.
- Annual FDOT inquiry of construction activities scheduled for Fairfield Drive between the CSX overpass and the I-110 interchange.
- Annual review of NWFWMD well construction permit records to identify any potential new well construction downgradient of the Agrico Site.
- Annual inquiry on status of NWFWMD well construction moratorium in the vicinity of the ETC and Agrico sites.
- Regular maintenance of property associated with the former Agrico Chemical Company (OU-1).

2.8 ANNUAL O&M TASKS FOR DEVELOPMENT OF POLLINATOR HABITAT

In June 2014, President Obama issued a memorandum establishing a Pollinator Health Task Force, co-chaired by the U.S. Department of Agriculture (USDA) and EPA, to create a National Pollinator Health Strategy that promotes the health of honeybees, butterflies, and other pollinators. Early in 2015, EPA approached AECOM regarding the possibility using the Agrico Site to enhance butterfly habitat. The responsible parties approved participation in this initiative, and in August 2015 a portion of the site was converted to flowering plant beds. The goal was to establish a plant habitat that will attract butterflies to provide a safe area for feeding and support of the butterfly's life cycle.

O&M activities associated with the pollinator beds includes the following:

- Continued cultivation of plant beds to get established flowering plants
- Continued planting of flowering species to diversify flowering periods and increase the density of plants
- Routine watering and weeding of plant beds to maintain their health.

2.9 OTHER CONTAMINATION SOURCES IN THE VICINITY OF THE AGRICO SITE

Past sampling results conducted by ECUA for supply wells south of the Agrico area have indicated impacts to ECUA supply wells, which initiated an assessment by FDEP in the late 1990s. This assessment identified two areas, collectively referred to as Site 348. Both areas are located less than 0.5 miles south of the Agrico Site. One is the former fertilizer manufacturing operation known as Kaiser Fertilizer plant. The second is known as the former Southern Cotton Oil Company. This site was a fertilizer mixing and storage facility.

Reportedly, the sources which may have contributed to impacted groundwater affecting the ECUA wells (F & Scott Streets Well, the East Plant Well, Well No. 6, Well No. 8, and Well No. 9) are still under investigation by FDEP. Three of these ECUA wells have been shut down and pumping discontinued (East Plant, Well No. 8, and Well No. 9) due to groundwater impacts. The COCs identified by FDEP at Site 348 are similar to the Agrico COCs, including radium 228 and ammonia. The Agrico plume was not implicated as a source or a factor in the impacts to these ECUA wells (Mactec, 2010). Additionally, the former Agrico plant was not associated with the either of the operations identified by FDEP that are related to Site 348.

No pumping effects are occurring within the current Agrico plume boundary that will cause the plume to move outside the natural groundwater flow path. This is verified by the past 23 years of water level measurements and potentiometric surfaces that show the natural groundwater flow direction remains consistently to the east, toward Bayou Texar. Consistency of groundwater flow patterns is also demonstrated by the individual water level trend data. The discontinued municipal pumping in the downtown area due to impacts from non-Agrico sources, also significantly decreases the potential of the Agrico plume to migrate from its current plume boundary. These conditions and other groundwater flow conditions negate the potential for future Agrico plume migration that could affect any public water supply well.

Water level measurements collected annually during the past 23 years indicate that the remaining irrigation pumping occurring within the OU-2 area is not significantly affecting the direction of groundwater flow. The primary groundwater flow controls are natural, including Bayou Texar, which functions as the eastern discharge boundary for the Agrico plume.

3.1 HYDROGEOLOGIC FRAMEWORK OF THE SAND-AND-GRAVEL AQUIFER

The vertical profile of the Sand-and-Gravel aquifer consists of beds of sand and gravel interbedded with beds of silt, clay, and fine sand sediments (**Figure 4**). The permeability of these beds is variable, both laterally and vertically. However, the subsurface sequence can be divided into three distinct zones. These zones vary greatly in thickness and lithology throughout Escambia County. In addition, individual beds of sand or clay within these zones are highly discontinuous, resulting in considerable heterogeneity within the zones. The major zones are the surficial zone, the low-permeability zone, and the main producing zone (Roaza, et al., 1991).

3.1.1 Surficial Zone

The surficial zone consists of the uppermost layer of sediments. It contains the unsaturated zone and the shallow surficial water table. The surficial zone varies in thickness, but it is generally less than 100 feet thick beneath the OU-2 monitoring area. The surficial zone consists primarily of quartz sand ranging in size from fine sand to gravel. Thin beds of limonite-cemented sandstone also occur. The zone contains thin beds of clay and silt that are highly discontinuous. These low-permeability beds occur both in the unsaturated and the saturated portions of the zone. Groundwater within the surficial zone primarily moves downward through the underlying lower-permeability zone to the main producing zone of the aquifer.

3.1.2 Low-Permeability Zone

The low-permeability zone underlies the surficial zone and is composed of sediments with overall lower permeability characteristics than sediments above or below the zone. This zone forms a semi-confining layer and helps to limit the vertical flow of groundwater between the overlying surficial zone and the underlying main producing zone. The actual lithology of this zone is variable, ranging from poorly sorted sand and silt to sandy clay to clay beds. Locally, well-sorted, water-bearing sands can also occur within this zone. Poor sorting and a higher percentage of clays and silts distinguish this zone from the other zones. The thickness of this zone in the subsurface underlying the facility ranges from about 20 to 50 feet (Roaza, et al., 1993).

The thickness and lithology of this zone is important because of its effect on vertical permeability. The low vertical permeability of this zone maintains the hydraulic head difference between the surficial and main producing zones in certain areas. This head difference imparts the vertical gradient responsible for the transport of dissolved constituents downward from the surficial zone to the main producing zone beneath the OU-1 area of the Site (see **Figures 5** and **6**).

3.1.3 Main Producing Zone

The main producing zone is the most productive portion of the Sand-and-Gravel aquifer and is the zone tapped by most water supply wells. The main producing zone is the deepest portion of the aquifer. The groundwater within this zone exists under semi-confined conditions. The main producing zone consists of moderate to well-sorted sand and gravel, along with minor interbedded layers of sandy clay and clay. Locally and regionally, variations occur in the lithology of the main producing zone. Changes with depth tend to be gradual and include varying grain size distribution and changes in the degree of sorting.

The clay beds interbedded within this zone generally constitute 10 to 40 percent of the thickness. In some areas, the productive intervals can be correlated and appear to be continuous over many miles. The saturated thickness of the main producing zone near the Site is approximately 100 feet.

The main producing zone is recharged by leakage through the overlying low-permeability zone. The actual amount of recharge is determined by the hydraulic head difference between the surficial zone and the main producing zone, the vertical permeability of the low-permeability zone, and the presence of any pumping wells. Groundwater from this zone discharges into Bayou Texar from the east and the west, and the bayou represents a discharge boundary for groundwater in OU-2.

3.2 HYDRAULIC HEAD DIFFERENCES AND GROUNDWATER FLOW BOUNDARIES

Within the former Site boundary (OU-1), the hydraulic head for the surficial zone is slightly higher than the hydraulic head in the main producing zone, which causes the surficial zone to infiltrate and recharge the main producing zone. This causes the plume emanating from the Site to be transported and diverted to the main producing zone within about 0.4 mile of the Site. The surficial zone plume has limited areal extent; and with source control and ongoing source depletion, significant trends toward decreasing concentrations within the plume have occurred in the surficial zone. Near the bayou, the main producing zone hydraulic head is slightly higher than the surficial zone, causing the main producing zone to discharge into the bayou (see **Figures 4, 5,** and **6**). Bayou Texar is a groundwater discharge boundary; therefore, groundwater from the west and east discharge into the bayou. This creates a boundary condition for the groundwater flow and plume transport. The Agrico plume discharges from the west into Bayou Texar along with the westerly groundwater flow component. Groundwater from the east (at least as far away as the Pensacola Airport) also discharges to the bayou. **Figure 4** shows the hydrogeologic conceptual model from the Agrico Site to Bayou Texar.

Within OU-2, groundwater generally flows laterally and vertically (both upward near the discharge boundary and downward in recharge areas) within the Sand-and-Gravel aquifer. The overall direction of groundwater flow is easterly toward Bayou Texar. Head variations between zones are important in controlling the vertical direction of groundwater flow. **Figures 5** and **6** show the potentiometric surfaces in November 2021 for the surficial zone and main producing zone, respectively. These surfaces are consistent with those measured historically.

The flow direction downgradient of the Agrico Site is primarily controlled by the Bayou Texar discharge boundary condition. Near the bayou, vertical head differences between aquifer zones cause groundwater to flow vertically from the main producing zone upwards, and groundwater discharges to the bayou. There is evidence that the bayou is a discharge boundary for both the surficial and main producing zones of the aquifer, and that groundwater does not pass under the bayou as underflow. Water levels within both zones to the north, east, and west of Bayou Texar indicate a groundwater flow direction toward the bayou boundary.

3.3 RAINFALL CONDITIONS

Rainfall records collected at the Pensacola Airport indicate that 2022 was characterized by about 6.26 inches above average normal rainfall (annual average is about 62.80 inches based on the 1900-2022 period of rainfall record), with a total accumulation of 69.06 inches during 2022. The total accumulation of rainfall in 2022 is approximately 19.36 inches less than occurred in 2021.

Over the past 21 years, extremes in rainfall have occurred. Hurricanes produced abundant rainfall in 2005 (87.32 inches) followed by a drought in 2006. During 2006, the total rainfall was 45.26 inches, or 17.49 inches below normal. The 2017 rainfall represents a record annual rainfall total for the period starting in 1900 with a total of 91.91 inches, and rainfall in 2018 totaled 90.01 inches.

A significant storm event occurred in the Pensacola area during April 2014. Between April 29 and April 30, 2014, the area received rainfall totals ranging from 16 to 24 inches. Widespread flooding occurred in many parts of the county and within the vicinity of the Site. The rain ended about 6:30 am on April 30, 2014. The Site was inspected at 14:15 pm on April 30, 2014. The south drainage pond had topped the pond banks. Flood water was contained north of the Fairfield Drive railroad overpass and the railroad right-of-way. Flooding extended along the southern annex road to just east of the storage warehouse property where the storm water pond on this out parcel also topped the pond's banks. The north pond was full and topping its bank, but flooding was contained on Site. An inspection of the cap area indicated that the cap was intact, and no damage had occurred.

During 2022, rainfall was above average for the year but lower than rainfall measured in 2021. **Figure 7** presents the annual rainfall data for the period of record from the NOAA Pensacola station. Also included on **Figure 7** is a graph showing the cumulative departure from normal rainfall. This cumulative departure graph generally mimics groundwater level trends.

An annual advisory notice (**Appendix C**) is sent to contractors conducting work in southern Escambia County. The advisory notice is sent to water well contractors, irrigation system installers, and pool contractors informing them of groundwater conditions in the vicinity of the Agrico Site. The contractor listing is updated annually from returned "not deliverable – no forwarding address" notices. For the purposes of the advisory notice, the area identified is approximately bounded on the north by Fairfield Drive, on the west side by Palafox Street, on the south side by Bobe Street, and on the east side by Bayou Texar. The notice states that the construction of wells in this area, including lawn irrigation wells, may be restricted due to the occurrence of impacted groundwater. The contractors are advised to contact the NWFWMD, the Northwest District of FDEP, or the ECHD for further information. The annual advisory notice was distributed in December 2022 to the contractors listed in **Table 6**.

Currently, institutional controls are in place that provide protection to the public drinking water supply. As part of the OU-2 remedy, periodic checking is performed to determine the status of institutional controls established by local, regional, and state agencies. To verify that controls remain in place, annual letters are sent to the various agencies requesting information on any changes or proposed changes. Since these agencies also receive reports regarding groundwater conditions, the purposes of the communication are: 1) to address any questions the agencies have concerning groundwater conditions and 2) to receive a status report from the agencies concerning the existing regulations, planned rule changes, or new regulations which control groundwater use in the Agrico OU-2 area.

Institutional controls include the following:

1. Well construction and consumptive use approval (NWFWMD)

   On February 22, 2001, the NWFWMD Board passed a moratorium on drilling new wells, including irrigation wells, in the Agrico and ETC areas. In a public meeting held on March 27, 2017, discussions with NWFWMD representatives indicated that they were not inclined to end the well construction moratorium. Therefore, the moratorium remained in effect during 2021 and is expected to continue since there is no expiration date for the moratorium.

   The moratorium affects the west side of the bayou only because the Agrico plume does not extend across the bayou due to hydrogeologic boundary flow conditions. The bayou serves as a flow boundary to the Agrico plume and prevents flow farther east.

   This moratorium is governed by the NWFWMD Rule 40A-3 which is incorporated into the rule as 40A-3.055 Prohibitions:

   (1) The construction of certain, specified types of water wells shall be prohibited in the following areas:

   (a) Escambia Treating and Agrico Superfund Sites, South Escambia County – permitting of all water wells other than monitor wells or aquifer restoration wells shall be prohibited with the area inside and bounded on the west by CSX railroad corridor, on the east by Bayou Texar, on the south by East Cross Street projected in a straight line until it intersects Bayou Texar, and on the north by Hyatt Street, North Davis Highway, Wynnehurst Street, Kenneth Street, Boxwood Drive, Ash Drive, Ninth Avenue, and Hillbrook Way projected in a straight line until it intersects Bayou Texar.

4. Irrigation systems approval (ECHD)**:**

   A letter dated February 2, 2005, was received from the Director of the Environmental Health Services, ECHD, indicating that the ECHD no longer approves or disapproves irrigation systems. The coordination with the City of Pensacola Building Inspection office for installation of irrigation systems is ***no longer*** a function performed by ECHD.

   Based on this information, the only regulatory control as it relates to groundwater within the OU-2 area is managed by the NWFWMD in their well construction permit program.

3. The location of the Agrico plume is well defined, and ECUA is on the distribution list for reports related to the Agrico plume. Therefore, a future supply well location in the vicinity of the Site is highly improbable.
4. Existing wells are regularly sampled by ECUA, which reports these data as part of their permit reporting to FDEP. Any potential impacts to the supply wells caused by existing plumes can be assessed. For example, existing impacts from Site 348 are under assessment by FDEP based on analytical results from ECUA wells (F & Scott Well, East Plant Well, Well No. 8, and Well No. 9).
5. The Northwest District of the FDEP has designated the area that encompasses both the Agrico plume area and the ETC plume area as a contaminated area under Chapter 62-524, Florida Administrative Code (FAC). The area is the same as the OU-2 area defined on **Figure 3**. The FDEP designated area also includes a portion to the north of the Agrico OU-2 area that is associated with the ETC plume. Chapter 62-524 FAC is closely tied to the NWFWMD well construction permit program since the designated area requires more stringent processes by the permit applicant before a well construction permit can be issued by the NWFWMD. Since there is a moratorium on the issuance of a well construction permits within the designated area, the moratorium provides more stringent restrictions than Chapter 62-254.
6. On February 9, 2022, the NWFWMD well construction database was queried, and no new wells were found confirming no new well construction for the moratorium area.
7. Deed restrictions on Agrico Property provide for certain future land use and subsurface limitations.

In February 2022, a memorandum was distributed to:

- Alex Webster– FDEP, Northwest District, Pensacola,
- Billy Hessman – FDEP, Tallahassee
- Tim Haag – ECUA
- Tom Brown– NWFWMD
- Derrick Owens – City of Pensacola
- Mark Spitznagel – ECHD
- Chips Kirschenfeld, Escambia County
- Alan Hagans – FDOT, District Three (Chipley)

No responses to the memorandum were received**.**

5.1 GROUNDWATER SAMPLING

Annual groundwater samples were collected from the modified long-term monitoring network in November 2022. A total of 10 monitoring wells were sampled.

Groundwater samples were collected in accordance with FDEP's SOPs for Field Sampling (Revised January 2017). Sample collection techniques, sample documentation, preservation requirements, sampling equipment decontamination procedures, the types and number of quality assurance/quality control (QA/QC) samples collected, and specifications that allow for the verification of the precision, accuracy, and completeness of data collected are all detailed in the sampling and analysis plan (SAP) included in the November 1998 O&M Plan.

5.1.1 Monitoring Well Network

Monitoring Locations

Locations of monitoring wells installed either in the surficial or main producing zones of the Sand-and-Gravel aquifer are shown on **Figure 1**. **Table 1** lists the wells in the Agrico monitoring network, including long-term monitoring wells which are sampled annually (includes measuring groundwater levels) and periodic monitoring wells where groundwater levels are measured annually and wells that are sampled and gauged during the Five-Year Review. **Table 2** presents the well construction details for all monitoring wells associated with the groundwater monitoring program for the Agrico Site.

Sampling Constituents

Groundwater was sampled in 2022 for the following COCs in both the surficial and deep zones:

- Fluoride
- Arsenic, Total (only from monitoring well AC-2S)
- Chloride
- Sulfate
- Nitrate
- Radium 226 and Radium 228 (naturally occurring); also reported as the sum of combined radium 226 + 228 results

Lead and arsenic are no longer included as analytical parameters for all groundwater samples. Arsenic is only analyzed annually in AC-2S. Lead is not analyzed for any well locations.

5.1.2 Well Purging

Each monitoring well associated with the modified monitoring network and sampled during November 2022 was purged and sampled with an electric, 2-inch, stainless steel, low-flow submersible pump and polyethylene tubing. All wells were purged a minimum of one and a half well volumes before sampling. No wells were purged dry during the November 2022 sampling event. Field parameters, including pH, specific conductivity, turbidity, temperature, dissolved

oxygen, and oxidation reduction potential were collected from all wells during purging. A summary of groundwater field parameters is presented in **Table 3**.

5.1.3 Investigation Derived Waste

Development and purge water pumped from each well was collected in a temporary storage tank installed on a field trailer. When the mobile storage tank was reached capacity, the recovered water was transferred to a larger temporary storage tank located on the Agrico OU-1 Site. In accordance with the FDEP guidelines, the wastewater is managed as industrial waste.

The IDW (non-hazardous groundwater purge water) is transported by Erwin Remediation, Inc. (Erwin) to their Mobile, Alabama facility (EPA ID Number ALO 000 859 421). There it is treated and disposed of in accordance with state and federal regulations. IDW was removed from the Site on January 13, 2023.

5.1.4 Water Level Measurements

In November 2022, groundwater levels were measured in all Agrico network monitoring wells for OU-1 and OU-2 except AC-22D, which could not be located and appeared to have been buried following construction activities. Further attempts will be made to locate the well prior to the 2023 sampling event.

Water levels measurements were collected on a single day prior to purging of wells scheduled for sampling, and these data and contours are consistent with historical data. Water level measurements are used to evaluate water level fluctuations and groundwater flow direction, and they are used to prepare potentiometric maps for the surficial and main producing zones of the Sand-and-Gravel aquifer.

Static groundwater levels from all identified monitoring wells associated with the Agrico Site (**Figure 1**) were measured to within ± 0.01 ft. Measurements were collected with an electronic water level tape using the top of casing (TOC) as the measuring point. The measurements were subsequently referenced to the TOC elevations and used to calculate groundwater elevations. This information was used to confirm that groundwater flow direction remains similar to that measured during previous years. Groundwater elevations are presented in **Table 4**.

5.2 BAYOU TEXAR SAMPLING

Three surface water sampling locations within the primary groundwater discharge reach of Bayou Texar were sampled as per the March 10, 2015, FDEP Memorandum. These locations are shown on **Figure 1**.

Surface Water Sampling

Three near-bottom surface water samples (BT-02, BT-107, and BT-127) are located within the brackish water locations that are tidally influenced. Saline water from Pensacola Bay is drawn into the bayou during high tide. All surface water samples are collected at low tide.

Surface water sampling is conducted in accordance with the November 1998 SAP. The samples are collected from a boat. A discrete sample is collected at the deepest section of each transect. Samples

are collected using a peristaltic pump and disposable polyethylene tubing attached to poly-vinyl chloride pipe, which is lowered to the appropriate depth. The depth of each sample collected is approximately 6 inches above the floor of the bayou. Field parameters, including pH, specific conductivity, turbidity, and temperature, are collected in conjunction with the surface water samples.

A summary of the 2022 surface water quality field parameters is presented in **Table 5**.

Sampling Constituents

For sampling locations BT-02, BT-107, and BT-127, fluoride was the only constituent analyzed.

5.3 CHEMICAL ANALYSES

Groundwater and surface water quality samples collected during the November 2022 event were submitted to Eurofins Environment Testing. (Eurofins), Pensacola, Florida. All analyses were performed by the Pensacola laboratory (Certification No. E81010), except radium 226 and radium 228 which were analyzed by Eurofins St. Louis (Certification No. E87689). All analyses were performed pursuant to NELAP requirements. Eurofins is certified by EPA and the State of Florida. All analytical reports were prepared in accordance with Eurofins's Level III report format. The following analytical methods were used to analyze the specific media in accordance with SW-846.

CONSTITUENT	ANALYTICAL METHOD
Fluoride	SM4500 F C
Chloride	300.0 (Ion Chromatography)
Sulfate	300.0 (Ion Chromatography)
Nitrate	353.2 Nitrate by calculation
Arsenic	6010B
Radium 226	903.1 Mod (RL-RA—001)(Alpha Scintillation)
Radium 228	904 Mod (RL-RA—001)(Gas Proportional Counters)

5.4 SAMPLING RESULTS

The November 2022 sampling activities completed the annual sampling requirement for the Agrico Site. A total of 10 annual monitoring network wells were sampled. **Figure 1** shows the required water quality sampling locations for the Agrico Site.

Field parameter details from the November 2022 sampling event are shown in **Table 3** and historical trends are shown on graphs within **Section 5.5**.

Results of the Bayou Texar sampling are presented in **Table 5** and **Table 9**.

The groundwater sampling results for the identified COCs detected in the surficial and main producing zones for the site-wide required water quality monitoring wells are discussed in this section. Summaries of the results are provided in **Table 8, Figure 8,** and **Figure 9.**

Appendix A contains all laboratory analytical reports from the November 2022 sampling event.

5.5 GROUNDWATER FIELD PARAMETERS

In addition to the Agrico COCs, several field parameters are collected as part of the groundwater sampling program (**Table 3**). These parameters include water temperature, pH, dissolved oxygen, turbidity, specific conductance, and the oxidation-reduction potential. An understanding of these parameters can be important in understanding the relationships between COC concentrations and field parameter ranges in values, in defining and understanding ranges of background concentrations, and in evaluating overall COC concentration trends. A more detailed discussion and graphical presentation of selected field parameters, including specific conductance, pH, dissolved oxygen, and the oxidation-reduction potential for the wells in the annual groundwater well network follows. **Appendix E** includes a graphical presentation of the selected field parameters mentioned above for all wells.

5.5.1 Conductivity

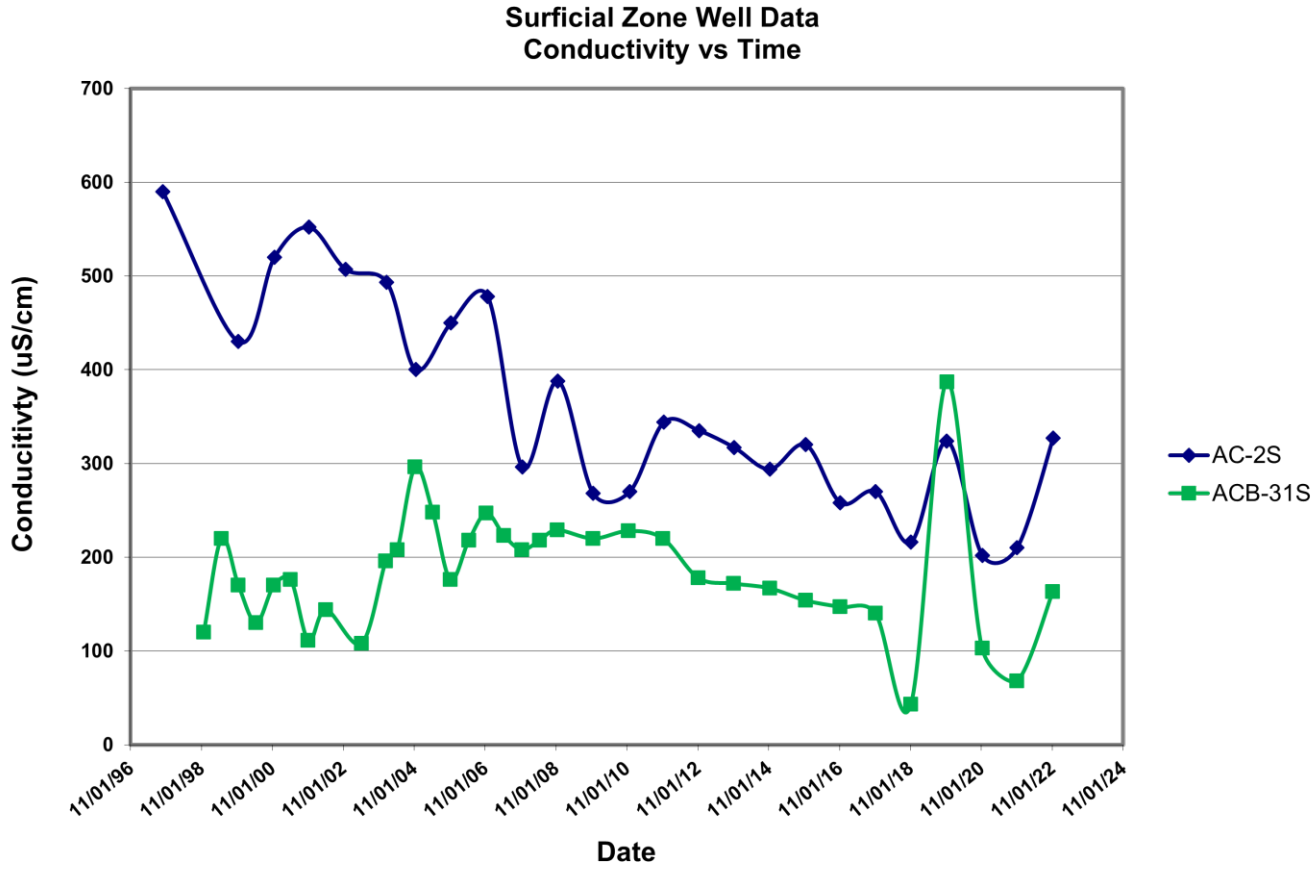
Conductivity (specific conductance) is a measure of how well a water sample conducts an electrical current. It is a straightforward measurement that can be made with reasonable accuracy in the field. It is, therefore, often used as a proxy for the total dissolved solids (TDS) analysis. The conductance values are measured in the field with a hand-held instrument and are recorded in microSiemens per centimeter units (µS/cm).

Within the main producing zone during 2022, the conductivity values ranged from 87 µS/cm (AC-2D) to 983 µS/cm (AC-35D). Conductivity decreased slightly from the 2021 conductivity values in all main producing zone wells except AC-2D which showed a very slight increase in 2022. In the surficial zone, both the conductivity in AC-2S and ACB-31S were higher than the 2021 conductivity values.

As groundwater recharges the Sand-and-Gravel aquifer in Escambia County, it encounters relatively little soluble material, and the water has characteristically low hardness (soft) and is relatively unmineralized. The aquifer is composed of mostly quartz sand, which is not very soluble. The abundant rainfall and the aquifer's high permeability keep the groundwater moving, and the residence time is such that the water does not tend to contain a significant quantity of dissolved mineral matter. Values are generally consistent with historical data. Measurements will continue to be recorded during future events as trends are indicative of changes in groundwater conditions in the area. As shown below, the levels are generally declining or stable.

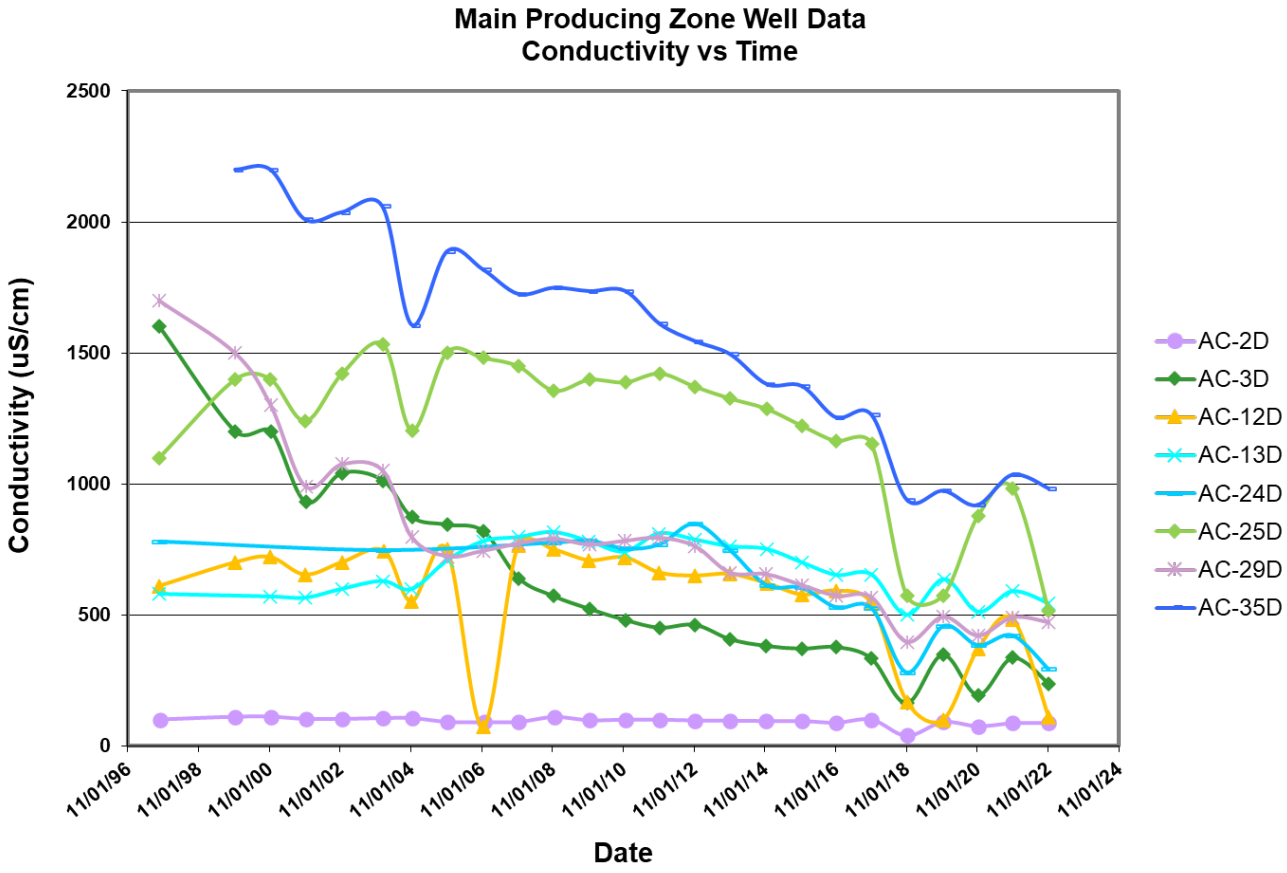
Surficial Zone Groundwater:

The shallow groundwater conductivity vs. time chart is shown below.



Main Producing Zone Groundwater:

The deep groundwater conductivity vs. time chart is shown below.



5.5.2 pH

Groundwater pH within the Sand-and-Gravel aquifer underlying Escambia County reflects generally acidic conditions (less than 7.0 standard units [su]). The reason for the acidic conditions is that rainwater has a pH generally less than 5.5 su in the Escambia County area (Trapp, 1973). This low rainfall pH, coupled with the high recharge from rainfall to the aquifer and the relatively inert nature of the sandy sediments that comprise the aquifer, yields a groundwater pH that is acidic.

Information from the U. S. Geological Survey (USGS) collected in Escambia County was reviewed for groundwater pH data. The period 1968 to 1980 was an extensive data collection time in Escambia County by the USGS. A total of 222 observations of pH (Coffin, 1982) were collected from 69 sites distributed throughout southern Escambia County. The sites were located to characterize general groundwater conditions and were not associated with any assessment of known contamination sites. The range of pH for the 222 observations was 3.4 to 8.9 su. The average pH for the 12-year period was 5.28 su. Background pH conditions are variable and are controlled by local recharge conditions, seasonal rainfall patterns, and whether the groundwater is from a shallow or deep source. Generally, the groundwater occurring at shallow depths (less than 100 feet below land surface) is more acidic than deeper groundwater that tends to approach neutral conditions.

In addition to review of the USGS groundwater pH data, a review was conducted of long-term pH data for a surface water gaging station on the Perdido River at Barrineau Park. The Perdido River is the westernmost boundary for Escambia County. The station is located about the middle portion of the County and shows that base flow streamflow conditions have pH values generally less than 5 su. Since the base flow of this stream and other streams in the county are derived from groundwater, this is another line of evidence that groundwater pH conditions are acidic.

Geochemically, pH is an important factor in understanding the occurrence of radium in the groundwater beneath Escambia County. Historically, the impacts from radium are well documented within the County and many of these exceedances are not associated with known contaminated sites. As the USGS data indicate, the groundwater can have a naturally occurring background value as low as 3.4 su. Likewise, the data showed that 101 of the 222 observations of pH were less than 5 su indicating that acidic background conditions exist for the groundwater in southern Escambia County.

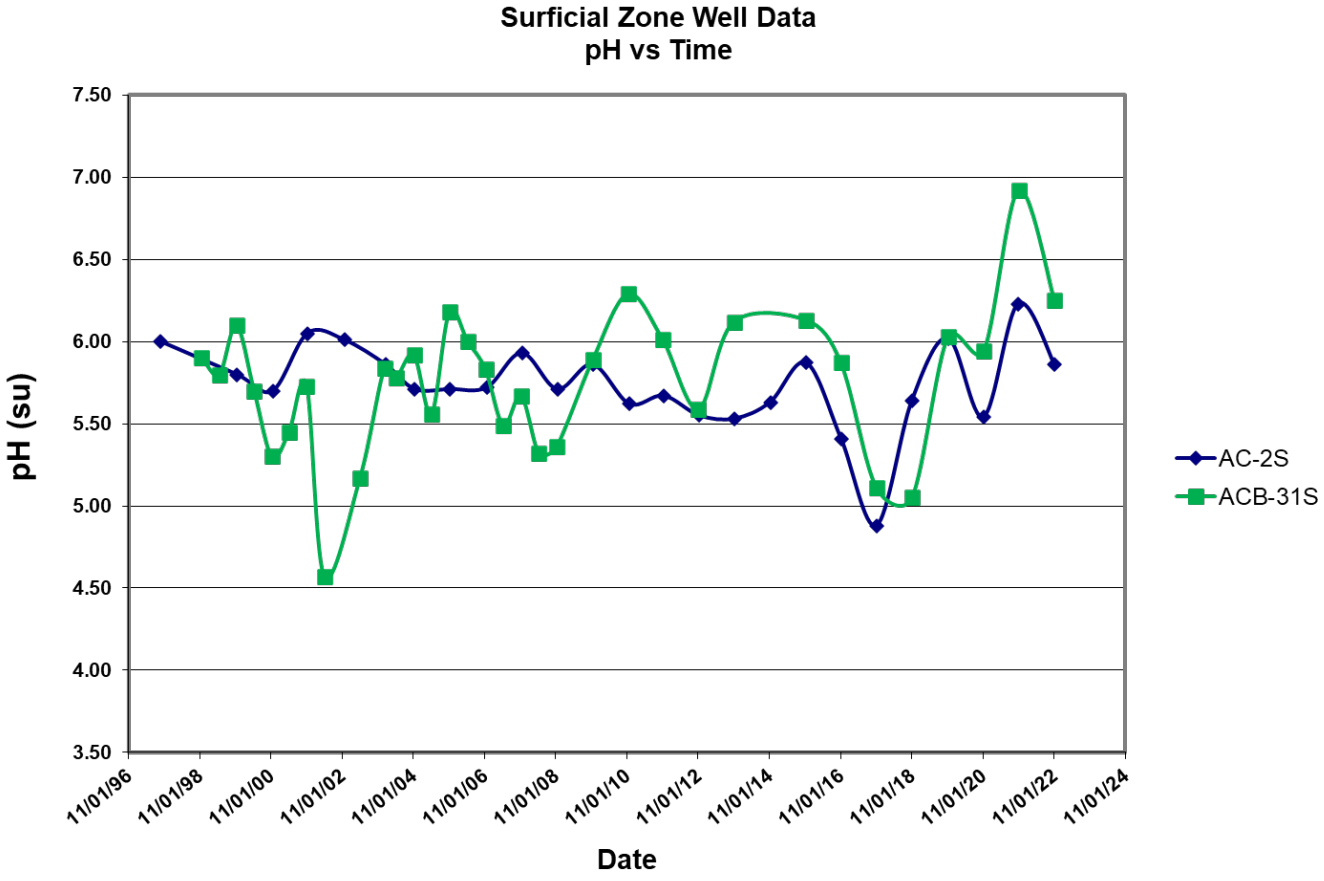
Exceedances of radium in Escambia County are believed to be associated with naturally occurring thorium minerals in the subsurface. USGS research (Zapecza and Szabo, 1988) at sites throughout the eastern United States indicate that when groundwater pH is approaching 4.5 to 5 su or lower and thorium is present, a process known as recoil mobilization is possible. This recoil process allows radium 228 to be released to the groundwater from the minerals containing thorium. For Escambia County as a whole, it is possible to activate this release with what are considered background groundwater conditions.

The acidity reflected by low pH in groundwater within the Agrico plume is most likely the result of former operational processes whereby wastewater was disposed in the former on-site impoundments at the former Agrico facility (Watts, et al, 1988). Since the completion of the OU-1 RA, the pH of shallow groundwater within the plume has improved, and in 2022 the pH values recorded are approaching a neutral condition.

The trends in groundwater pH from the Agrico network monitoring wells are reflected in the following graphs for the surficial and main producing zones of the aquifer. Measurements in 2022 in the main producing zone indicate that pH levels generally were higher in 2022 than in 2021; but values were within historical ranges except at AC-2D, AC-12D, and AC-24D which were at historical highs.

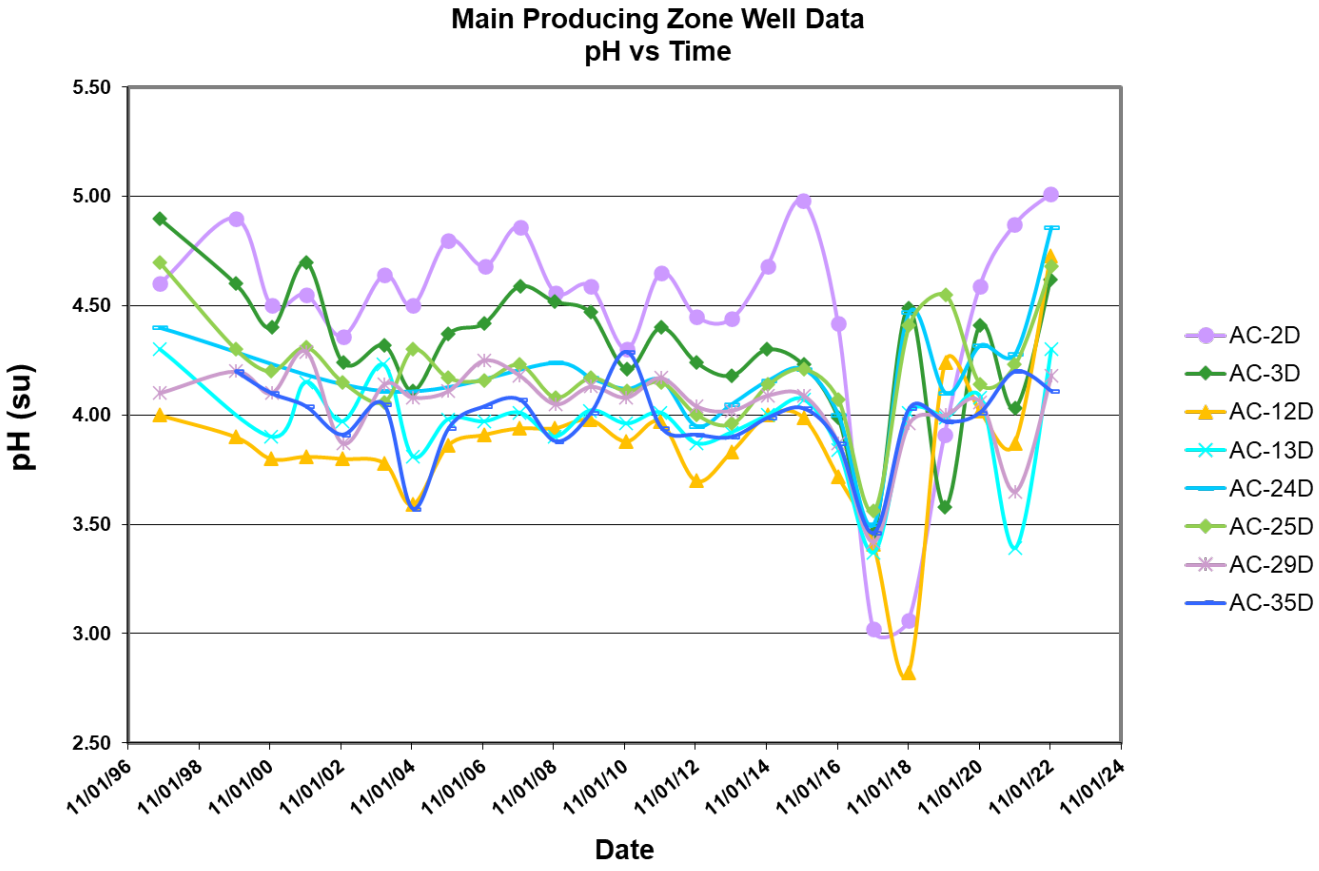
Surficial Zone Groundwater:

The surficial zone groundwater pH vs. time chart is shown below.



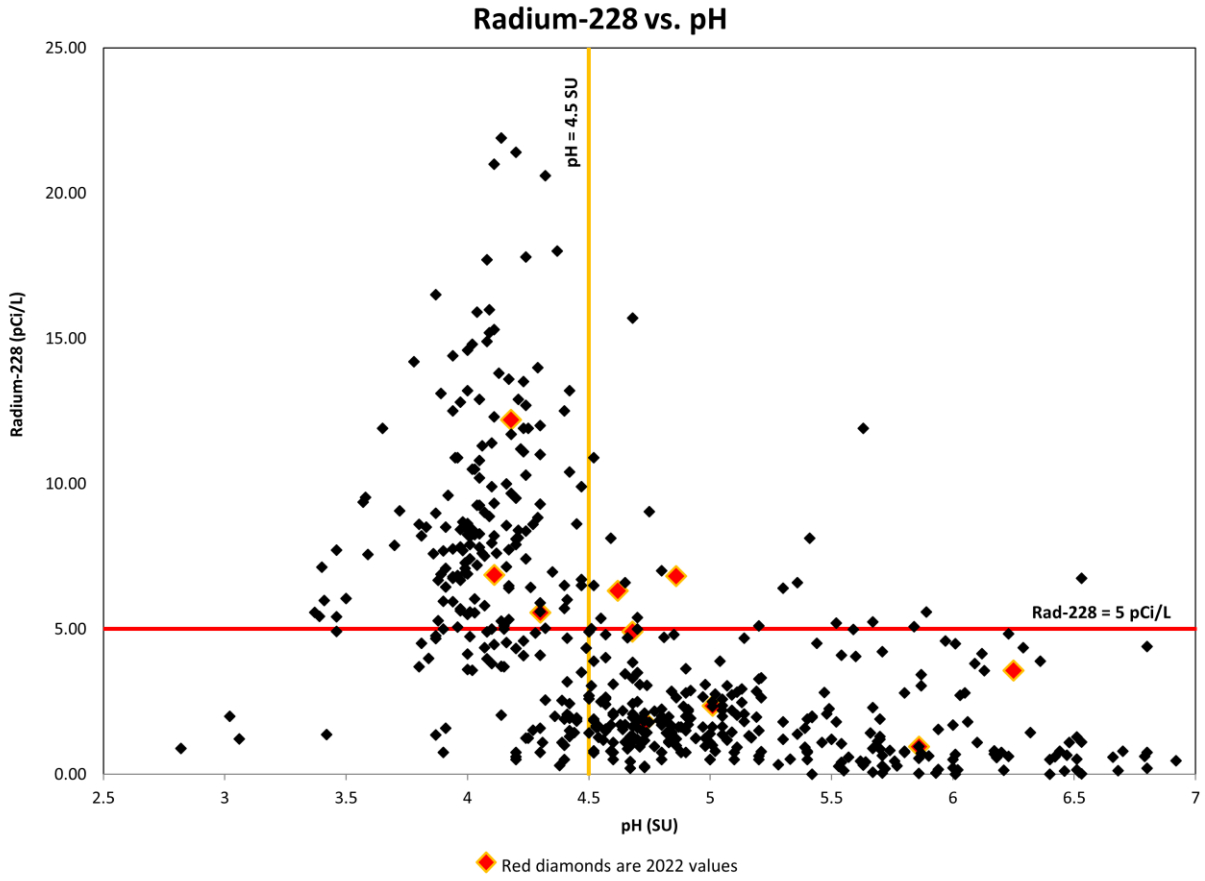
Main Producing Zone Groundwater:

The main producing zone groundwater pH vs. time chart is shown below.



The following graph is updated from the original graph (URS, 2007) to show data from all sampling events conducted for the Agrico Site. The data points marked as red diamonds represent results from the November 2022 sampling event. The graph shows the relationship between pH and radium 228 concentrations and illustrates that where the groundwater pH approaches about 5 to 4.5 su or lower, the radium 228 concentration generally increases and often exceeds the 5 pCi/L drinking water standard for combined radium 226 + radium 228. It should be noted that the use of a pH of 4.5 su to demonstrate this relationship is within the range of pH at which the recoil process generally is activated. The recoil activation range is plus or minus a pH of 4.5 su (Zapecza and Szabo, 1988).

Data from the 2022 sampling also follow the historical trend.



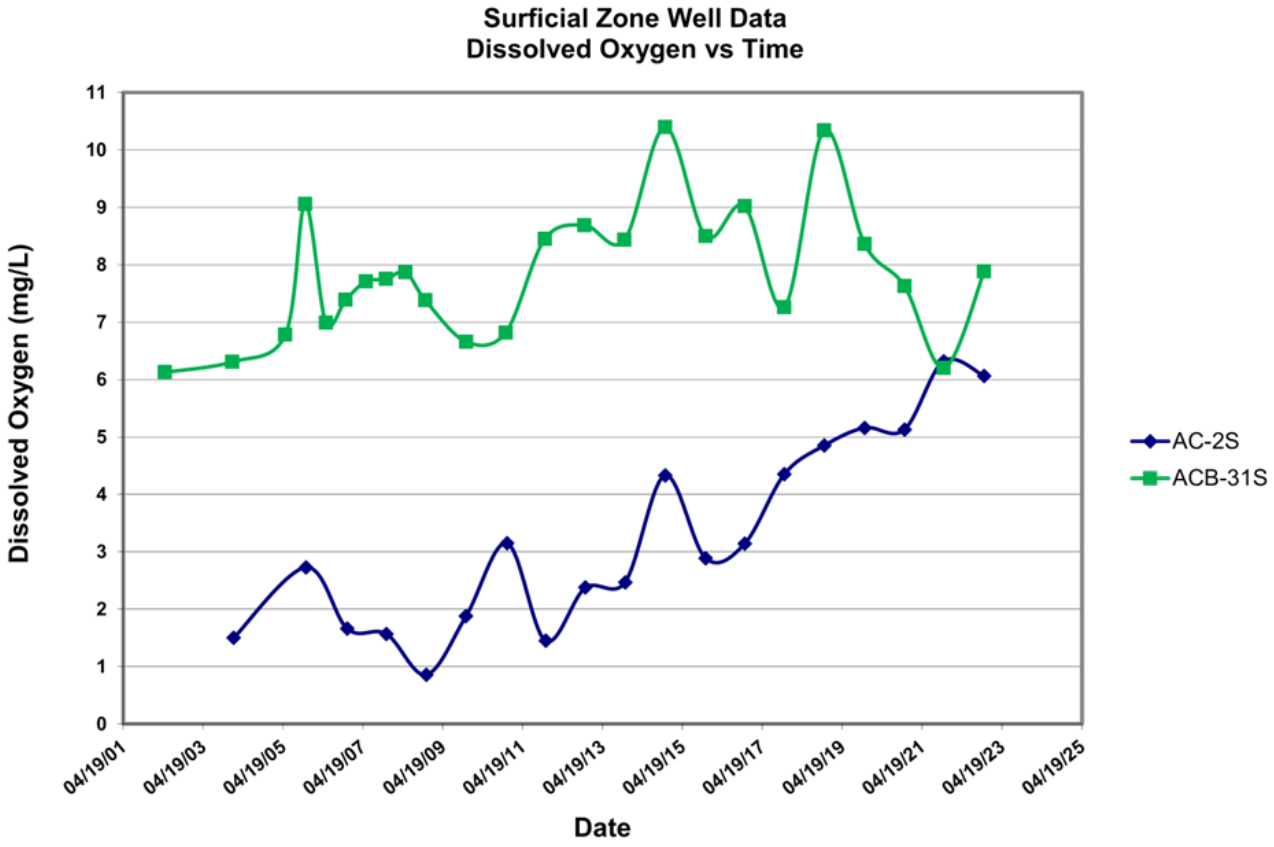
Acidic groundwater conditions are also associated with Site 348. This site is located approximately 3,000 feet south of the Agrico Site. Assessment reports for Site 348 (MACTEC, 2010) present pH and radium 228 data which show that low pH conditions result in exceedances of the radium standard of 5 pCi/L for combined radium 226 and radium 228. Data from Site 348 indicate that radium 228 is the predominant isotope present in the groundwater beneath Site 348. Site 348 is in close proximity to former municipal water supply wells. A 2008 sample collected by ECUA from the F & Scott well reported a combined radium 226 + 228 concentration of 5 pCi/L (www.ecua.fl.org – 2010 Water Quality Report).

5.5.3 Dissolved Oxygen

The solubility limit (saturation concentration) of oxygen in water (in equilibrium with air) at the temperatures, pressures, and salinities encountered in shallow groundwater at the Site is on the order of 8.5 mg/L (ppm). Oxygen's solubility limit increases as temperature decreases. Dissolved oxygen (DO) concentrations greater than 1 mg/L (aerobic conditions) are considered to support aerobic microbial metabolism, and conversely, DO concentrations less than 1 mg/L (anaerobic conditions) support anaerobic microbial systems.

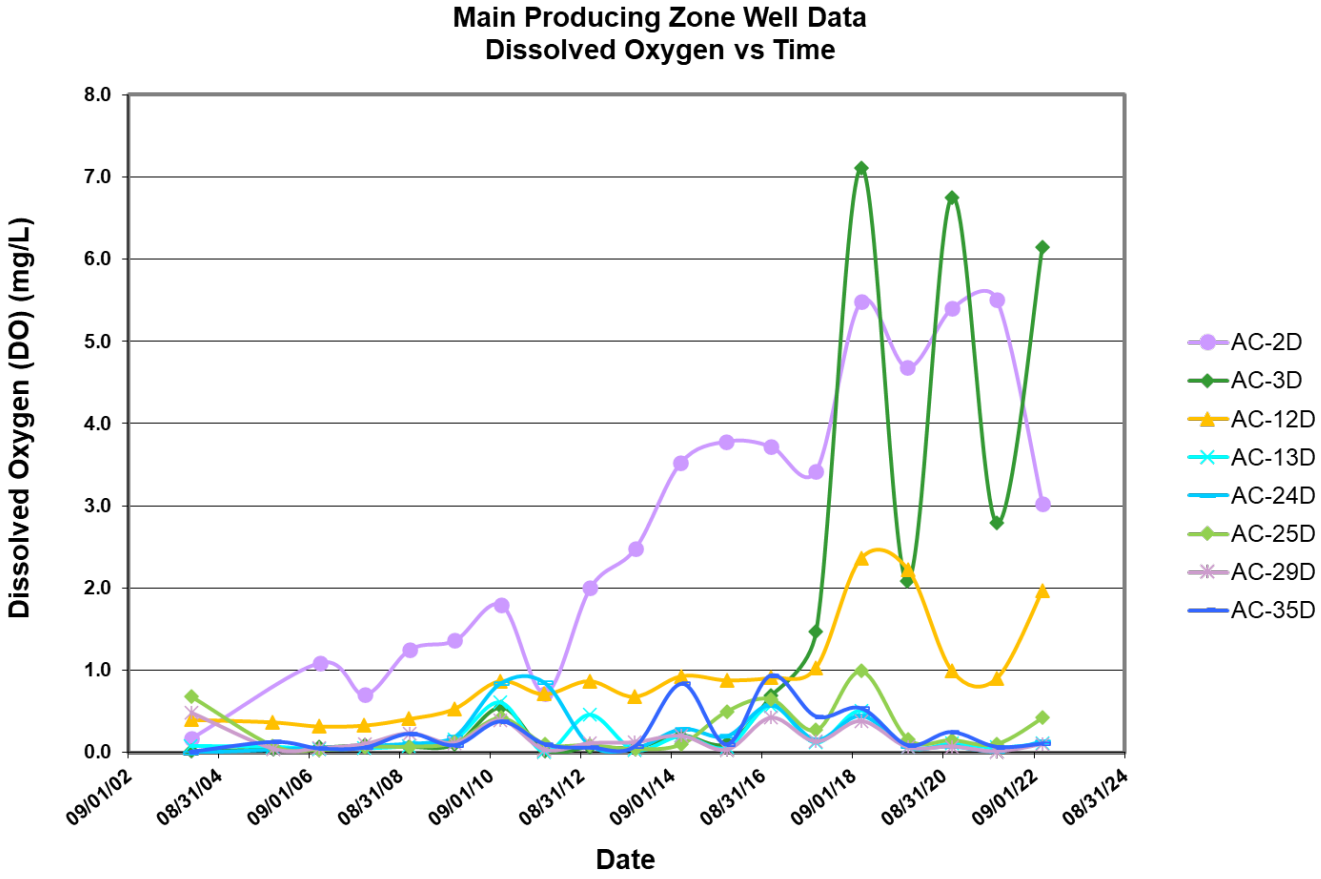
Surficial Zone Groundwater:

The shallow groundwater DO vs. time chart is shown below.



Main Producing Zone Groundwater:

The deep groundwater DO vs. time chart is shown below.



5.5.4 Oxidation-Reduction Potential

Oxidation-reduction potential (ORP) reactions control the behavior of many chemical constituents in groundwater. ORP refers to the electric potential required to transfer electrons from one compound or element (the oxidant) to another compound (the reductant). The process of oxidation involves losing electrons, while reduction involves gaining electrons. ORP is used as a qualitative measure of the state of oxidation in aqueous solutions. ORP (and Eh) are typically given in terms of millivolts (mV).

Although similar to ORP, Eh is reserved for consideration where the redox potential is measured with a relatively fragile standard hydrogen electrode. Positive Eh values indicate an oxidizing environment, while negative Eh values indicate a reducing environment. For field applications, ORP is typically measured using silver/silver chloride (Ag/AgCl) reference electrodes.

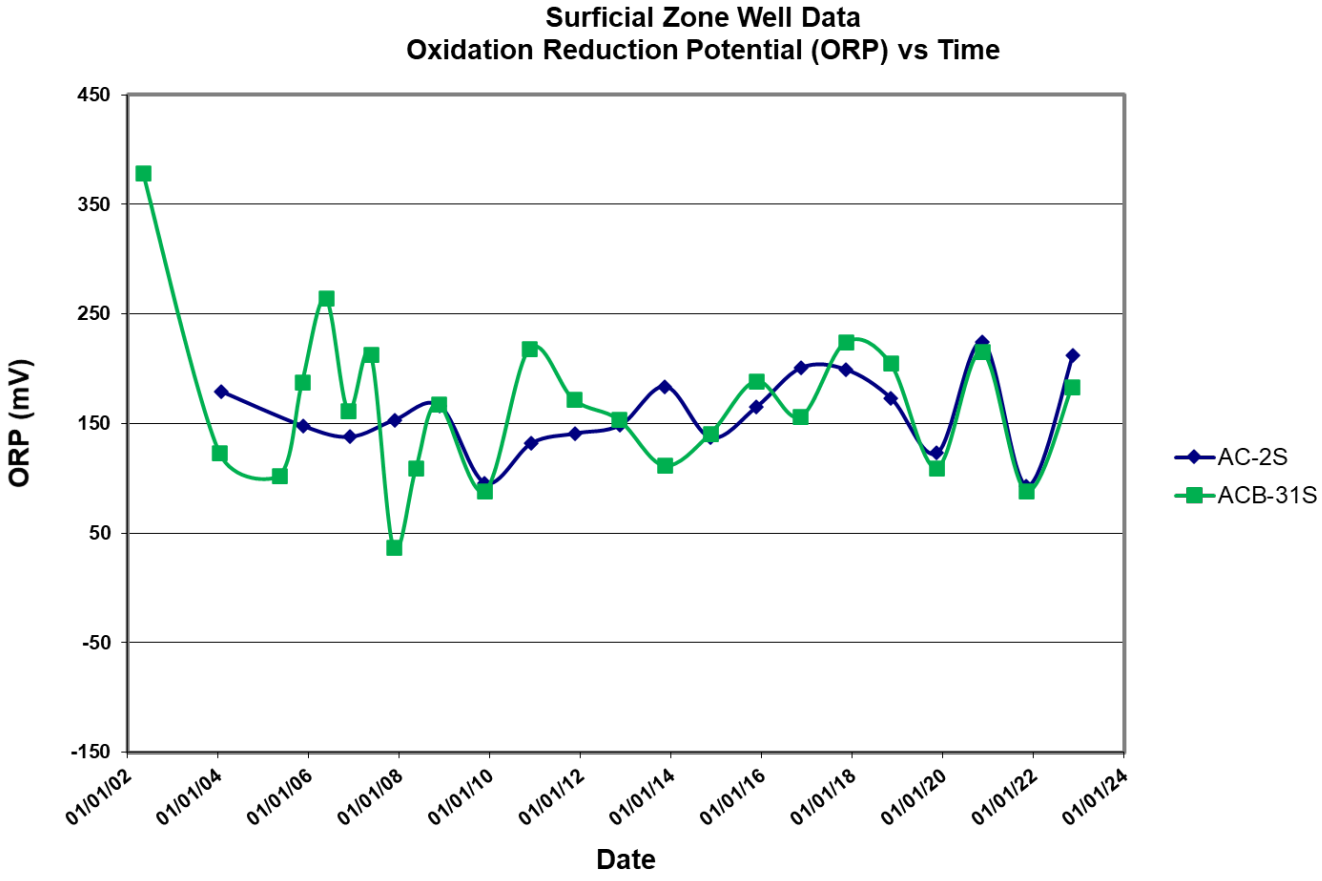
Field ORP readings can be converted to Eh values by adding the offset value provided by the manufacturer of the ORP calibration solution used (or by experimentation). ORP has been measured at the Site with an YSI (brand) instrument equipped with an Ag/AgCl electrode and calibrated against a Zobell 4 molar potassium chloride (KCl) solution where the offset to Eh is 200 mV. To convert the Site's field ORP readings to Eh, the offset value of 200 mV is added to the

Site's ORP readings. For example, ORP readings of +150 and -172 mV translate to Eh values of +350 and +28 mV, respectively. It is common for natural groundwater to present ORP between +300 mV to -400 mV (Eh between +500 mV to -200 mV).

Generally, oxygen-rich water is expected to exhibit positive ORP values (reflecting oxidizing conditions); and, conversely, anaerobic water often presents negative ORP values (reflecting reducing conditions). However, oxidation-reduction reaction couples are numerous and often competitive, so that natural environments affected by anthropogenic constituents can induce ORP behavior atypical of the otherwise classic correlation with DO. ORP is expected to reach equilibrium in groundwater that is at or approaching steady state. Changes in ORP can indicate a system that is out of equilibrium. ORP readings in 2022 were higher than those reported in 2021, but the values remain within the historical ranges.

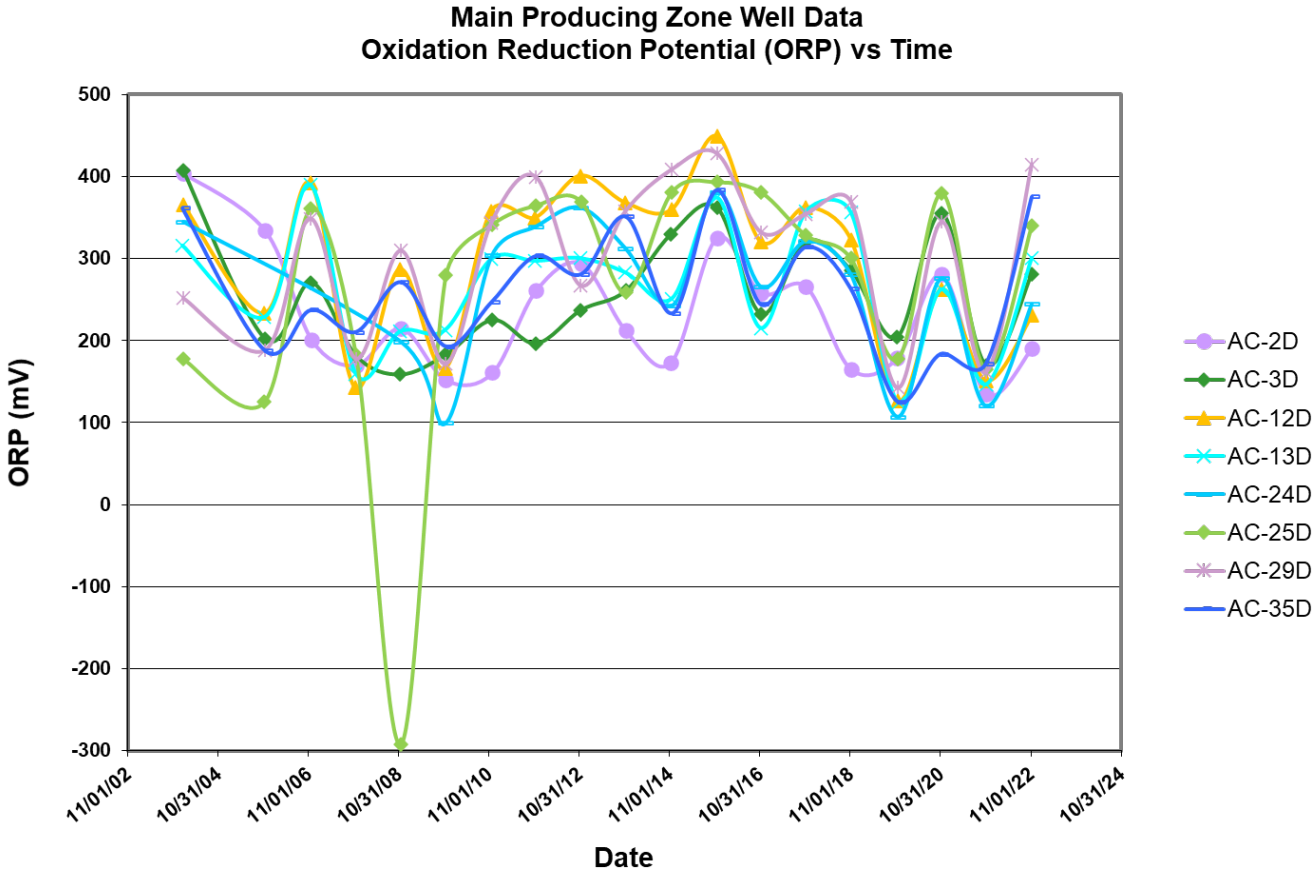
Surficial Zone Groundwater:

The shallow groundwater ORP vs. time chart is shown below.



Main Producing Zone Groundwater:

The deep groundwater ORP vs. time chart is shown below.



5.6 BAYOU TEXAR SAMPLING RESULTS

The modified surface water monitoring network is composed of three sampling locations within Bayou Texar. Freshwater from Carpenter's Creek flows into the saline estuary, Bayou Texar. **Figure 1** shows the locations of the surface water sampling sites. The samples are analyzed for fluoride only. Brackish water occurs at all three locations where samples are collected.

The surface water sampling results for fluoride at the three stations are shown in **Table 5** (field parameters) and **Table 9** (analytical results). The fluoride results did not exceed the surface water criteria of 5 mg/L at the sampling locations. Laboratory analytical reports are contained in **Appendix A**.

5.7 QA/QC REVIEW

Eurofins job numbers for this annual report are 400-228565-1 and 400-228685-1. The following laboratory narratives describe the sample conditions and associated analytical QA/QC issues.

Laboratory Report 400-228565-1**:**

All samples were received in good condition, properly preserved, and on ice.

Method 300.0 – Chloride and Sulfate:

- Several samples were diluted to bring the concentration of target analytes within the calibration range and the elevated reporting limits are provided.
- The continuing calibration verification associated with a batch recovered above the upper control limit for sulfate. The samples were non-detects for sulfate therefore the data have been reported.
- the matrix spike (MS)/matrix spike duplicate (MSD) recovery for several sulfate samples was outside control limits, but the associated laboratory control sample (LCS) recovery was within acceptance limits. Data have been reported and qualified in the laboratory report.

Method 903.0 – Radium:

- An MS/MSD was not performed for radium.

Metals: No analytical or quality issues were noted.

Method 353.2 – Nitrate-Nitrite:

- Several samples were diluted to bring the concentration of target analytes within the calibration range and reporting limits are provided.
- Two samples (AC-25D and AC-35D) were rerun outside of method hold time because the preliminary results indicated a significant departure from historical concentrations. The rerun results were in line with historical concentrations and were reported by the laboratory with the appropriate qualifier.
- The MS/MSD recoveries were outside advisory control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate precision was within acceptance limits.

Laboratory Report 400-228685-1**:**

All water quality samples were received in good condition, properly preserved and on ice. No analytical or quality issues were noted.

One equipment blank (EQ 1) was collected during the November 2022 sampling event. No target analytes were reported above the laboratory detection limits in the equipment blank sample.

Results of the QA/QC samples are included with the laboratory reports in **Appendix A**.

5.8 GROUNDWATER SAMPLING RESULTS

The 2022 annual results continue to show that source control actions at the former Agrico Site are effective and that the MNA remedy is functioning as expected with Agrico COCs attenuating in groundwater under the former Site and downgradient of the Site.

Surficial Zone

Within the surficial zone, historically the overall trend of COCs is downward and there has been an overall shrinking of the area of impacts for this zone. The downward trend in concentrations has been attributed to effective source control. The surficial zone plume is historically captured by the vertical hydraulic component of the groundwater transport approximately one-half mile downgradient of the former Site. Due to these conditions, the areal extent of impacts in the surficial zone is limited.

Historical results show that all Agrico monitoring well locations on the former Agrico property have achieved clean up goals. Presently, there are only two surficial monitoring wells being sampled annually for the Site, ACB-31S (onsite) and AC-2S (directly downgradient of the Site). Only AC-2S exhibits COC (fluoride and arsenic) concentrations above target clean-up goals in the surficial zone. For 2022, fluoride (37 mg/L) exceeds the clean-up target level of 4 mg/L at this location. The fluoride concentrations in shallow groundwater are attenuating. The peak concentration of 210 mg/L occurred in 2002 at well AC-2S. Since that time, fluoride concentrations have exhibited an overall decreasing trend. For arsenic, the concentration is also decreasing. The highest total arsenic concentration of 0.74 mg/L occurred at well AC-2S in 1990. In 2022, arsenic was detected at a concentration of 0.021 mg/L which is above the performance standard of 0.010 mg/L (revised in 2006) and within the historical concentration range.

Main Producing Zone

Within the main producing zone, the overall flattening of the trends is what was predicted in the *Evaluation of Monitored Natural Attenuation* by William Huber, Ph.D., Quantitative Decisions, (URS, 2009) and further confirmed by subsequent data evaluations by Huber in the October 23, 2013, Report #2 (URS, 2013b). This flattening should be expected to continue for some time and eventually evolve into a slowly decreasing trend, accelerating as time goes on. Slight upward or downward ticks in the trend for individual monitoring well results are to be expected. It is the long-term trend for each COC that is important. Radium appears to attenuate more slowly than the other Agrico COCs. Radium exceedances occur as the result of a secondary reaction and are not the direct result of infiltration into the groundwater from the source area. Instead, acidic wastewater infiltrated into the groundwater and contacted naturally occurring mineralogy with radium content. The radium in turn was released from the subsurface sediments to the groundwater as the acidic plume is transported downgradient contacting newly exposed aquifer material with the radium mineralogy. As the acidity approaches background conditions, this will stop the release of radium and attenuation of combined radium should progress on a faster path.

Figure 8 and **Figure 9** show the 2022 results for the current monitoring locations for fluoride and combined radium 226 + 228, respectively.

The 2022 fluoride results are consistent with historical results at all wells except at AC-12D, which was not detected above the method detection limit of 0.10 mg/L. When the preliminary results were received, a request to rerun the sample was made to the laboratory. The sample rerun was conducted outside the method hold time, and it also resulted in a non-detect. Therefore, the original result has been included in **Table 8**. The fluoride concentration results for AC-12D in 2018 and 2019 were also below the performance standard. Review of these data in conjunction with review of the fluoride results from the 2022 surface water samples collected in Bayou Texar confirms that fluoride concentrations overall in the main producing zone are decreasing.

Combined radium 226 + 228 concentrations from the 2022 sampling were slightly higher in most of the monitoring wells than those measured during 2021. However, all results were well below the historical maximums, and overall, the data show decreasing trends for these constituents.

Chloride, sulfate, and nitrate values in 2022 were reported below the performance standards in all wells. Chloride and sulfate analyses for samples from AC-12D, AC-25D, and AC-24D were rerun by the laboratory because the preliminary results represented a departure from historical concentrations. The reruns confirmed the original results. In addition, the nitrate analysis for samples AC-25D and AC-35D was rerun outside of hold time due to questionable results on the initial runs. Following review of the data, the laboratory reported the second nitrate results for these samples and qualified the results.

Figure 10 presents the trend graphs for fluoride in the surficial zone annual monitoring wells. Chloride, sulfate, nitrate, and combined radium 226+ 228 trends are not included for the surficial zone since these parameters have remained below the performance standards in the surficial zone for over 5 years. **Figure 11** shows the trend graphs for fluoride, chloride, sulfate, nitrate, and combined radium 226 + 228 for each of the annual sampling monitoring well locations in the main producing zone. For the locations with questionable 2021 fluoride results, the reported values have been left off the charts so as not to skew the trends.

6.1 OU-1 REMEDY

The source area remedy was completed in 1997. Since that time, the property has remained secured; institutional controls have been filed on the property deed and are on record with Escambia County; the integrity of the constructed cap has not been compromised by erosion or settlement; the grass cover on the cap has matured and stabilized the soils; and the storm water controls remain intact, preventing storm water runoff from leaving the Site except through infiltration to groundwater in the North and South Ponds. Results of the water and sediment sampling in the infiltration ponds during January 2004 indicated that soils on-site are not affecting the quality of water infiltrating these ponds. Concentrations of all COCs in groundwater of the surficial zone immediately downgradient of the cap have decreased significantly since the remedial actions were completed. Based on the groundwater sampling results, the source area is controlled, and the remaining COC impacts are from residual impacts caused prior to the remedial action. **Results from the 2022 sampling of monitoring wells downgradient of the cap area indicate that the OU-1 remedy remains effective and that source zone depletion is ongoing.**

6.2 OU-2 REMEDY

Annual groundwater and surface water monitoring has been performed at established long-term monitoring locations since 1999. Comprehensive sampling has been performed in conjunction with each Five-Year Review. The groundwater monitoring continues to be an effective means of evaluating the natural attenuation remedy as well as source zone depletion. The evaluation of the long-term groundwater monitoring network (URS, 2006d), approved by EPA on September 11, 2007, provides further information regarding the defined plume area and downgradient progression. The evaluations of monitored natural attenuation associated with the Agrico plume (URS, August 2009 and October 2013) further supports that the mechanisms for attenuation are in place throughout the area and the effects of the source zone remedy are evident in the surficial zone of the former source area (OU-1) and are also being observed downgradient (OU-2), as expected. **Results from the 2022 sampling of monitoring wells downgradient indicate that natural attenuation is proceeding as expected and is an effective remedy for the Site.**

6.2.1 Notifications

As part of the annual scope of work, notifications are provided to select groups. This includes issuing an Advisory Notice to contractors, a memorandum to local and regional agency contracts; and querying of NWFWMD permit records to determine if any new wells have been installed within the well construction moratorium area.

A standard advisory notice was distributed to contractors who might be performing work related to new well installations around OU-2. This notice informs the contractor of the boundaries of the existing moratorium on well construction. It also directs them to the NWFWMD, FDEP, or the Escambia County Health Department for more information.

According to NWFWMD permit records, no new irrigation wells were installed within the monitoring area during 2022.

On February 22, 2001, the NWFWMD Board passed a moratorium on drilling wells, including irrigation wells, in the Agrico OU-2 and the ETC groundwater plume areas. The moratorium

remains in effect and provides the most stringent institutional controls for the area impacted by the plume. The moratorium has no termination date and is part of the Prohibitions in Rule 40A3. In March 2021, a coordination memorandum was distributed to local and regional agencies requesting input on any rule changes that may affect any institutional controls for the moratorium area (**Appendix C**). No responses indicating work that might affect the area were received.

6.2.2 Sampling Results – Groundwater and Surface Water

The natural attenuation remedy is proceeding as anticipated, with 25 of the estimated 70 years elapsed (remediation of OU-1 was certified complete in April 1997). Conclusions from the monitored natural attenuation evaluations (URS, August 2009 and October 2013) indicate that much of the groundwater is expected to reach the target concentrations within two to three decades. Within the area of the Bayou Texar discharge boundary, the time to reach the targets may be longer. Fluoride results continue to exemplify cleanup progress for the Agrico Site. While the fluoride result for AC-12D is questionable given the significant decrease over previous results reported by the laboratory, the results from the other wells analyzed continue to show that overall fluoride concentrations are decreasing with time. Additionally, it appears that the plume discharge area remains well defined and limited in areal extent. The 2022 groundwater results compare to historical results for both aquifer zones. Although slight increases in concentrations were detected at monitoring well locations for some COCs, the increases are well below the maximums detected and within the range of expected concentration fluctuations for a natural attenuation remedy where source control has been implemented and source-zone depletion is ongoing.

Surficial Zone

The surficial zone plume does not migrate to Bayou Texar. The plume in this zone infiltrates to the main producing zone within less than 0.4 mile downgradient of the Site (**Figure 4**). Monitoring of the groundwater within the surficial zone is limited to the OU-1 area and the vicinity of the vertical diversion area between AC-2S and AC-3S. The only impacts remaining for the surficial zone plume are in proximity of monitoring well AC-2S, and only fluoride and arsenic were detected above the performance standards in this well during 2022. Historically, within the surficial zone, the overall trend in COC concentrations is downward and the overall area of impacts is shrinking. Due to the existing hydrogeologic/hydraulic conditions, the zone has limited areal impacts. For most of the OU-2 area, background conditions exist for the Agrico COCs within the surficial zone since the potential for downgradient impacts beyond the surficial zone diversion area are absent. Any exceptions to background concentrations in these downgradient surficial zone wells are due to non-Agrico sources.

Main Producing Zone

Within the main producing zone, arsenic and lead plumes are not present. The primary indicator of the Agrico plume continues to be fluoride where concentrations exceed the performance standard of 4 mg/L. Also, although not observed during the 2022 sampling, elevated chloride and sulfate concentrations may coexist with elevated fluoride concentrations at some locations. Radium appears to be attenuating more slowly than the other Agrico COCs. This is because radium (naturally occurring) exceedances occur as the result of a secondary geochemical reaction, not the direct result of infiltration into the groundwater from the source area. Instead, low pH acidic wastewater

infiltrated into the groundwater and contacted naturally occurring minerals with radium content. The naturally occurring radium was released from the subsurface saturated soil to the groundwater with the low pH acidic plume. As the pH approaches background conditions (neutralizes) downgradient, the release of the naturally occurring radium will subside, and both the pH and radium plumes will continue to shrink.

Historically, the main producing zone plume remains well defined, as the detailed evaluations (URS, 2006d, URS, August 2009, and URS, October 2013) confirmed, and exceedances of COC-specific performance standards only cover limited areal extents. Within the main producing zone, the stability and flattening of COC concentration trends is what was predicted and what is observed. At some locations, the flattening/COC stability is expected to continue for some time. This trend will eventually evolve into a slowly decreasing trend, accelerating with time as it has already developed in many locations.

Sampling results for 2022 showed slightly higher concentrations for some constituents at a few locations within the plume than measured in 2021. These increased concentrations were within the historical ranges, and overall concentrations trends are decreasing. Slight upward or downward ticks in COC trends for individual monitoring well results are to be expected as site conditions change (e.g., water level fluctuations, aquifer heterogeneity, etc.). It is the long-term trend for each COC in the impacted area that is important.

6.2.3 Bayou Texar

The 1993 Bayou Texar Assessment (Entrix, 1993a, 1993b, and 1993c) presented fluoride data that indicated groundwater originating from the Agrico Site was discharging to the bayou. The data also indicated that the discharge zone appeared to be well defined and limited in areal extent. EPA's review of the data concluded that fluoride would have to be discharging at a concentration of 4,050 mg/L or greater to exceed the surface water standard of 5 mg/L in the bayou. The maximum fluoride concentration in 2022 in the groundwater well closest to the western edge of Bayou Texar, was 72 mg/L in monitoring well AC-35D. The maximum historical fluoride concentration recorded for the Agrico plume was 180 mg/L in the same well AC-35D in 2010. Furthermore, in the OU-2 ROD, EPA (1994) concluded that it is unlikely that the discharge of the groundwater plume into Bayou Texar would result in impacts to fish or wildlife.

There are more than 60 storm water outfalls into Bayou Texar. Several studies have identified impacts caused by storm water from other locations contributing contaminants to the bayou. Mohrherr, et al. (2005) concluded that Bayou Texar is an urban water body that is impacted by a variety of pollutants and pollution sources. Mohrherr, et al. (2005) further concluded that their results corroborate the studies conducted for the Agrico Site indicating that fluoride levels are highest and increase with depth in the northern portion of the bayou where the Agrico plume discharges to the bayou. Mohrherr, et al. (2005) also concluded, as the long-term monitoring data for the bayou confirm, that the fluoride concentrations in the waters of Bayou Texar are below the Chapter 62-302, Class III Marine standard of 5 mg/L.

Surface Water

Surface water concentrations remain below Chapter 62-302, Class III Marine Surface Water Standards for Agrico COCs, indicating that sufficient precipitation for the case of fluoride concentrations exists within the bayou. For other Agrico constituents, advection-dispersion is

significantly affecting the COCs before and/or after it is discharged to the bayou so that the Agrico plume potential impacts are minimized with no significant risk to the bayou.

Summary of Ecological Impact Evaluation of Bayou Texar Downgradient of Agrico's Groundwater Fluoride Plume

On September 4, 2009, the results of the Phase I and Phase II Bayou Texar sampling for August 2008 and May 2009 were submitted to EPA. The results of the investigations indicated the following:

- Fluoride in the top 10 cm of sediment (the bioactive zone) within the groundwater plume discharge zone ranged from about 32 to 339 micrograms per gram (µg/g).
- Fluoride in the near-bottom surface water (the primary exposure regime for demersal fish) within the groundwater plume discharge zone was consistently less than the Florida Surface Water Quality Criterion for Class III Marine waters for fluoride, 5 mg/L. The concentration of fluoride in most of the surface water samples was less than 1 mg/L.
- Fluoride in the sediment pore water in the bioactive zone (the primary exposure regime for benthic macro-invertebrates) within the groundwater plume discharge zone was less than 3 mg/L in 30 of the 40 stations sampled. Fluoride in pore water exceeded the 5 mg/L standard at only 3 of 40 stations. Spatial analysis determined that the surface area weighted average concentration of fluoride in the bioactive zone pore water was less than the 5 mg/L standard.

The conclusions of this assessment indicated that there is no significant risk to populations of demersal fish or to benthic macro-invertebrate communities that inhibit the reach of Bayou Texar where the Agrico groundwater discharges. Furthermore, the fluoride solubility in most of surface sediments and in all pore waters within the primary groundwater plume discharge reach is controlled by mineral precipitation reactions. These reactions are likely responsible for buffering dissolved concentrations of fluoride in near surface sediment pore water and the surface water in this reach of the bayou.

EPA has approved the ecological impact evaluation that was conducted for Bayou Texar (URS, 2009C). As part of the Third Five-Year review, EPA included four recommendations in the June 2010 Five-Year Report. These recommendations were as follows:

1. Continue annual groundwater monitoring.
2. Continue annual near-bottom Bayou Texar surface water monitoring at multiple stations including the 3 locations with pore water greater than 5 milligrams per liter as reported in the September 4, 2009 "Conceptual Site Model Ecological Impact Evaluation of Bayou Texar Downgradient of Agrico's Groundwater Fluoride Plume" (Phase II results).
3. If the levels of fluoride in near-bottom surface water or in adjacent Bayou Texar groundwater monitoring well, AC-35D increase to levels significantly greater than that measured historically (maximum of 180 mg/L in 2010), submit a work plan to evaluate the increase.
4. Conduct further risk evaluation studies will be conducted if the surface area weighted average for pore water is predicted to be greater than 5 mg/L.

These first two recommendations are continuing tasks of the on-going long-term monitoring program for the Site. As of the November 2010 sampling event, the three locations where pore water results were greater than 5 mg/L were added to the long-term monitoring.

Since the surface water sampling was initiated for Bayou Texar and modified in 2010, no significant concentrations of fluoride have been detected as part of the near-bottom surface water sampling. For 2022, the fluoride concentrations are 1.2 mg/L (BT-02), 0.58 mg/L (BT-107), and 0.90 (BT-127). The value for BT-02 was higher than the value detected during the 2021 sampling event. Results from the other two locations were lower than values reported in 2021. Results from all locations continue to be well below the applicable SWS. Historical surface water fluoride concentrations further confirm that the Agrico groundwater discharges to Bayou Texar have no significant risk.

6.3 RECOMMENDATIONS

- Annual groundwater and surface water sampling continue for 2023 as stated in the March 10, 2015, FDEP Memorandum.
- Operations and maintenance including mowing related to OU-1 to continue in accordance with the OU-1 O&M Plan as amended November 18, 2009, and approved by EPA on January 25, 2010.
- The advisory notice to contractors and the query of the NWFWMD well construction permit database will continue annually.
- The Agency Coordination Memo and the FDOT inquiry for intrusive activity will continue annually.
- Continue to work to understand the impacts associated with Site 348 (a FDEP site) and work with EPA on gathering information pertaining to Site 348.

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TABLES

TABLE 1
GROUNDWATER MONITORING WELL NETWORK
LONG-TERM AND PERIODIC MONITORING WELLS

Agrico Site
Pensacola, Florida

Well I.D.	Network Component	Description	Aquifer Zone
AC-2D	OU-2 LTGWMW	Downgradient Site, Below PS Concentration	MPZ
AC-2S	OU-2 LTGWMW	Elevated Concentration Area Well	SZ
AC-3S	OU-2 LTGWMW	Flow Path Well, Below PS Concentration	SZ
AC-3D	OU-2 LTGWMW	Elevated Concentrations, Flow Path Well	MPZ
AC-5D	PERIODIC	Outside of Plume	MPZ
AC-5S	PERIODIC	Outside of Plume, Background	SZ
AC-6D	OU-2 LTGWMW	Outside of Plume; Potentially Impacted by Site 348 (Kaiser)	MPZ
AC-6S	PERIODIC	Outside of Plume; Potentially Impacted by Site 348 (Kaiser)	SZ
AC-7SR	OU-1 LTGWMW	In Residual Plume Area	SZ
AC-8D	OU-2 LTGWMW	Outside Plume, Sentry Well	MPZ
AC-9D2 [(1)]	OU-2 LTGWMW	In Plume	MPZ
AC-10D	PERIODIC	Outside of Plume, Effects by Site 348 (Kaiser) Possible	MPZ
AC-11D	PERIODIC	Outside of Plume	MPZ
AC-12D	OU-2 LTGWMW	Flow Path Well Inside Plume	MPZ
AC-13D	OU-2 LTGWMW	Leading Edge of Plume	MPZ
AC-21D	PERIODIC	Outside of Plume, Potential Effects by Site 348 (Kaiser)	MPZ
AC-22D	PERIODIC	Outside of Plume, Effects by Site 348 (Kaiser) Possible	MPZ
AC-23D	PERIODIC	Sidegradient Fringe of Plume	MPZ
AC-24D	OU-2 LTGWMW	Flow Path Well Inside Plume	MPZ
AC-24S	PERIODIC	Outside of Plume, Downgradient of Diversion Area	SZ
AC-25D	OU-2 LTGWMW	Flow Path Well Inside Plume	MPZ
AC-27D	PERIODIC	Located on East Side of Groundwater Divide	MPZ
AC-27S	PERIODIC	Located on East Side of Groundwater Divide	SZ
AC-28D	OU-2 LTGWMW	Flow Path Well Inside Plume	MPZ
AC-29D	OU-2 LTGWMW	Elevated Concentrations, Flow Path	MPZ
AC-30D	OU-2 LTGWMW	Flow Path, Inside Plume	MPZ
AC-31S	OU-1 LTGWMW	Upgradient but not necessarily Background	SZ
ACB-32S	OU-1 LTGWMW	Upgradient but not necessarily Background	SZ
AC-33S	OU-1 LTGWMW	Downgradient Cap Area	SZ
AC-34S	OU-1 LTGWMW	Downgradient Cap Area	SZ
AC-35D	OU-2 LTGWMW	Elevated Concentration, Flow Path	MPZ
NWD-2D	PERIODIC	Outside of Plume, Effects by Site 348 (Kaiser) Possible	MPZ
NWD-2S	PERIODIC	Downgradient of Diversion Area, Outside of Plume	SZ
NWD-4D	OU-2 LTGWMW	Outside of Plume, Sentry Location	MPZ
NWD-4S	PERIODIC	Outside of Plume, Sentry Location	SZ
PIP-D	OU-2 LTGWMW	Upgradient but not necessarily Background	MPZ

NOTES:

LTGWMW = Long-Term Groundwater Monitoring Well

MPZ = Main Producing Zone

Periodic = Annual water levels and sampling during Five-Year Reviews.

PS = Performance Standard

SZ = Surficial Zone

Beginning in Nov. 2009, AC-2S, AC-31S, AC-2D, AC-3D, AC-12D, AC-13D, AC-24D, AC-25D, AC 29D, AC-35D will be sampled annually to assist in MNA evaluation; once MNA determinations are made, these wells will revert to periodic monitoring.

(1) AC-9D2 is replacement well for AC-9D. AC-9D was plugged and abandoned on October 21, 1993.

The following wells associated with the site were not located as of September 1997: AC-3D2, AC-21S, AC-23S, AC-25S, NWD-D, NWD-I. Evaluation determined that the remaining wells were adequate for an accurate understanding of conditions at the Site.

Wells plugged with cement and abandoned according to NWFWMD regulations include AC-1S, AC-1D, AC-4S, AC-4D, AC-7S, AC-7D, AC-9D.

Former Periodic Well NWD-3S destroyed between November 2005 and November 2006. New construction location covers the former monitoring well location. Evaluation determined that the remaining wells were adequate for an accurate understanding of conditions at the Site.

Former monitoring wells AC-14D, AC-26S, AC-26D, and AC-36D were destroyed by the City of Pensacola stormwater project construction. These wells were removed from the network prior to the 2020 sampling event.

TABLE 2
MONITORING WELL CONSTRUCTION DETAILS

Agrico Site
Pensacola, Florida

Well I.D.	Elevation Measuring Point (ft NGVD)[5]	Well Depth (ft bls)[6]	Screen Interval (ft bls)[2]	Diameter (inches)[2]	Aquifer Zone
AC-2D[4]	92.74	149	147.2-149	4	MPZ
AC-2S	88.65	70	50 - 70	4	SZ
AC-3S	88.06	79	59 - 79	4	SZ
AC-3D	88.07	170	150 - 170	4	MPZ
AC-5D	82.4	171	151 - 171	4	MPZ
AC-5S	82.34	69	49 - 69	4	SZ
AC-6D	69.19	170	150 - 170	4	MPZ
AC-6S	69.32	70	50 - 70	4	SZ
AC-7SR	90.59	70	50 - 70	2	SZ
AC-8D	76.44	220	190 - 222	4	MPZ
AC-9D2 [1]	64.13	198	179 - 198	4	MPZ
AC-10D	79.48	224	190 - 224	4	MPZ
AC-11D	73.17	200	200 - 220	4	MPZ
AC-12D	79.23	211	191 - 211	4	MPZ
AC-13D	74.65	223	203 - 223	4	MPZ
AC-14D [8]	49.79	199	179 - 199	4	MPZ
AC-21D [7]	75.47	170	160 - 169.5	4	MPZ
AC-22D	76.58	170	160 - 169.5	4	MPZ
AC-23D	79.51	170	160 - 169.5	4	MPZ
AC-24D	79.60	215	205 - 215	4	MPZ
AC-24S	79.50	80	70 - 80	4	SZ
AC-25D	39.75	180	170 - 180	4	MPZ
AC-26D[9]	26.70	165	155 - 165	4	MPZ
AC-26S[9]	26.75	35	25 - 35	4	SZ
AC-27D	18.55	150	140 - 150	4	MPZ
AC-27S	18.50	35	25 - 35	4	SZ
AC-28D	74.89	201	181 - 201	4	MPZ
AC-29D	82.26	211	191 - 211	4	MPZ
AC-30D	85.73	211	191 - 211	4	MPZ
ACB-31S	91.92	70	50 - 70	2	SZ
ACB-32S	88.16	69.5	49.5 - 69.5	2	SZ
AC-33S	89.18	69.5	49.5 - 69.5	2	SZ
AC-34S	89.09	70	50 - 70	2	SZ
AC-35D	10.49	145	125 - 145	4	MPZ
AC-36D[9]	5.26	152	132 - 152	4	MPZ
NWD-2D[3]	76.80	180	160 - 180	4	MPZ
NWD-2S[3]	77.53	75	55 - 75	4	SZ
NWD-3S[7]	80.40	75	55 - 75	4	SZ
NWD-4D	34.70	120	100 - 120	4	MPZ
NWD-4S	34.70	45	35 - 45	4	SZ
PIP-D	39.10	180	160 - 180	4	MPZ

NOTES:

ft bls = feet below land surface

MPZ = Main Producing Zone

ROW = Road Right-of-Way

SZ = Surficial Zone

[1] AC-9D2 is replacement well for AC-9D. AC-9D plugged and abandoned on October 21, 1993.

[2] All wells are constructed of PVC casing and screen materials.

[3] Elevations for NWD-2D and NWD-2S were corrected in this Annual Report based on information from the NWFWMD database.

[4] Downhole Video Survey conducted in March 2004. Results indicate well filled in and only about 1 ft of screen remains.

[5] ft NGVD = feet above National Geodetic Vertical Datum of 1988.

[6] ft = feet

[7] NWD-3S destroyed as of 2006; AC-21D damaged as of 2007 (measured depth 163 ft bls; only 3 ft of screen remains). Evaluation determined that the remaining wells are adequate for an accurate understanding of conditions at the Site.

[8] AC-14D destroyed in 2018 during City of Pensacola stormwater system construction project.

[9] AC-26S, AC-26D, and AC-36D were not located during the 2019 sampling event, and based on recent City of Pensacola stormwater system construction, they appear to have been destroyed. EPA approved the 2019 report recommendation to remove these wells from the monitoring well network. However, should future groundwater data indicate the need, well replacement may be required.

TABLE 3
GROUNDWATER FIELD PARAMETER RESULTS

Agrico Site
Pensacola, Florida

Well I.D.	Date	pH (su)	Conductivity (µS/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
ACB-31S	11/23/98	5.90	120	23.00	NM	NM	6.0
	05/25/99	5.80	220	26.00	NM	NM	2.0
	11/16/99	6.10	170	21.00	NM	NM	8.0
	05/16/00	5.70	130	24.00	NM	NM	7.0
	11/14/00	5.30	170	20.00	NM	NM	3.0
	05/08/01	5.45	176	22.50	NM	NM	999*
	11/06/01	5.73	111	22.10	NM	NM	4.6
	05/06/02	4.57	144	22.60	6.13	379	15.4
	05/07/03	5.17	108	22.83	NM	NM	7.2
	01/13/04	5.84	196	23.86	6.31	123	0.8
	05/10/04	5.78	208	24.76	NM	NM	10.2
	11/09/04	5.92	296	23.70	NM	NM	9.3
	05/10/05	5.56	248	23.12	6.78	103	5.1
	11/08/05	6.18	176	23.71	9.06	187	5.0
	05/17/06	6.00	218	23.19	6.99	265	2.0
	11/14/06	5.83	247	23.25	7.39	162	2.1
	05/16/07	5.49	223	23.14	7.71	213	2.4
	11/15/07	5.67	208	22.50	7.75	37	0.6
	05/15/08	5.32	218	23.19	7.87	109	0.9
	11/13/08	5.36	229	23.43	7.38	168	1.2
	11/19/09	5.89	220	23.38	6.66	88	2.1
	11/16/10	6.29	228	22.59	6.82	218	0.9
	11/08/11	6.01	220	23.61	8.45	172	3.5
	11/06/12	5.59	178	23.73	8.69	154	0.4
	11/05/13	6.12	172	23.83	8.43	112	1.2
	11/12/14	5.97	167	20.84	10.40	140.6	0.24
	11/18/15	6.13	154	21.73	8.50	188.8	0.40
	11/08/16	5.87	147	23.45	9.02	156.1	0.78
	11/07/17	5.11	140	23.69	7.26	224.4	2.13
	11/06/18	5.05	43	24.01	10.34	204.8	1.20
	11/12/19	6.03	387	23.49	8.36	109.5	1.46
	11/10/20	5.94	103	23.77	7.63	215.8	0.48
	11/04/21	6.92	68	23.83	6.20	88.4	0.62
	11/08/22	6.25	163	23.19	7.88	183.7	0.35

TABLE 3
GROUNDWATER FIELD PARAMETER RESULTS

Agrico Site
Pensacola, Florida

Well I.D.	Date	pH (su)	Conductivity (µS/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
AC-2S	09/27/97	6.00	590	24.00	9.10	NM	2.0
	11/16/99	5.80	430	22.00	NM	NM	1.0
	11/21/00	5.70	520	21.00	NM	NM	1.0
	11/15/01	6.05	552	20.00	NM	NM	39.5
	11/26/02	6.01	507	25.90	NM	NM	4.9
	01/23/04	5.86	493	24.75	1.50	179.2	2.5
	11/17/04	5.71	400	23.66	NM	NM	3.31
	11/15/05	5.71	450	23.49	2.73	147.6	9.31
	11/28/06	5.72	478	24.04	1.66	137.8	0.81
	11/21/07	5.93	296	24.39	1.57	153.3	0.00
	11/19/08	5.71	388	24.41	0.86	166.2	1.01
	11/18/09	5.86	268	24.34	1.88	95.8	1.18
	11/29/10	5.62	270	24.48	3.15	132.1	0.07
	11/16/11	5.67	344	24.77	1.45	140.9	3.96
	11/14/12	5.55	335	23.71	2.38	148.6	0.56
	11/12/13	5.53	317	23.99	2.47	183.8	1.07
	11/12/14	5.63	294	21.51	4.33	137.1	0.41
	11/18/15	5.87	320	22.21	2.89	165.3	0.59
	11/09/16	5.41	258	23.87	3.14	200.8	1.45
	11/07/17	4.88	270	23.92	4.35	199.1	2.01
	11/06/18	5.64	216	23.79	4.85	172.8	3.31
	11/12/19	6.02	324	23.19	5.16	123.1	0.61
	11/10/20	5.54	202	23.99	5.13	224.4	1.53
	11/02/21	6.23	210	23.86	6.32	92.8	0.82
	11/09/22	5.86	327	22.79	6.06	212.3	0.38
AC-2D	09/30/97	4.60	100	24.00	9.70	NM	0.0
	11/16/99	4.90	110	22.00	NM	NM	0.0
	11/21/00	4.50	110	21.00	NM	NM	0.0
	11/15/01	4.55	102	21.20	NM	NM	0.0
	11/26/02	4.36	102	23.70	NM	NM	0.4
	01/23/04	4.64	105	23.07	0.17	403.9	2.6
	11/17/04	4.50	105	22.40	NM	NM	1.1
	11/14/05	4.80	91	23.32	2.41	334.2	3.3
	11/28/06	4.68	90	23.30	1.09	200.8	1.7
	11/21/07	4.86	91	22.86	0.70	170.0	0.0
	11/19/08	4.56	109	23.65	1.25	214.9	1.87
	11/18/09	4.59	97	23.37	1.36	151.8	1.18
	11/29/10	4.30	99	22.90	1.79	161.0	0.65
	11/16/11	4.65	99	23.61	0.72	260.9	3.14
	11/14/12	4.45	96	23.59	2.00	293.8	2.15
	11/12/13	4.44	95	23.70	2.48	212.1	2.71
	11/12/14	4.68	94	21.28	3.52	173.6	1.31
	11/18/15	4.98	94	22.02	3.78	325.1	2.11
	11/09/16	4.42	88	24.02	3.72	257.9	2.08
	11/07/17	3.02	99	24.05	3.42	265.9	6.36
	11/06/18	3.06	40	24.42	5.48	165.3	6.94
	11/13/19	3.91	90	23.75	4.68	178.6	3.45
	11/11/20	4.59	75	24.05	5.40	280.5	6.45
	11/02/21	4.87	86	24.05	5.51	135.1	4.00
	11/08/22	5.01	87	23.01	3.02	190.1	2.50

TABLE 3
GROUNDWATER FIELD PARAMETER RESULTS

Agrico Site
Pensacola, Florida

Well I.D.	Date	pH (su)	Conductivity (µS/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
AC-3D	09/27/97	4.90	1600	24.00	9.50	NM	0.0
	11/19/99	4.60	1200	23.00	NM	NM	0.0
	11/21/00	4.40	1200	21.00	NM	NM	0.0
	11/14/01	4.70	930	22.80	NM	NM	0.0
	11/26/02	4.24	1041	23.80	NM	NM	0.37
	01/22/04	4.32	1013	23.24	0.02	407.2	2.60
	11/17/04	4.11	872	22.81	NM	NM	3.24
	11/15/05	4.37	844	23.35	0.04	202.3	2.96
	11/22/06	4.42	819	23.48	0.06	270.9	1.30
	11/21/07	4.59	640	22.94	0.09	181.3	0.00
	11/13/08	4.52	572	23.77	0.07	158.7	2.20
	11/18/09	4.47	523	23.61	0.10	183.2	0.81
	11/29/10	4.21	480	22.83	0.55	225.2	1.43
	11/15/11	4.40	451	23.53	0.02	196.5	2.04
	11/13/12	4.24	462	23.63	0.07	237.2	0.79
	11/12/13	4.18	407	23.69	0.06	260.9	1.25
	11/11/14	4.30	382	20.74	0.21	329.5	0.16
	11/19/15	4.23	371	21.84	0.11	362.0	0.65
	11/11/16	3.99	377	24.00	0.69	232.5	0.71
	11/08/17	3.46	333	24.00	1.47	321.0	1.71
	11/06/18	4.49	163	24.40	7.11	285.8	1.11
	11/13/19	3.58	348	24.23	2.08	204.2	0.54
	11/10/20	4.41	194	23.97	6.75	355.1	0.72
	11/04/21	4.03	336	23.96	2.79	170.2	0.86
	11/09/22	4.62	238	23.29	6.15	281.6	0.12
AC-12D	09/27/97	4.00	610	24.00	9.00	NM	NM
	11/18/99	3.90	700	23.00	NM	NM	0.0
	11/15/00	3.80	720	23.00	NM	NM	0.0
	11/08/01	3.81	653	21.30	NM	NM	0.0
	11/22/02	3.80	700	24.00	NM	NM	0.54
	01/28/04	3.78	745	23.36	0.40	365.6	1.68
	11/11/04	3.59	551	22.93	NM	NM	0.0
	11/10/05	3.86	749	23.85	0.37	233.6	3.00
	11/16/06	3.91	72	23.67	0.32	392.2	0.11
	11/16/07	3.94	766	22.92	0.33	143.5	0.0
	11/13/08	3.94	749	23.83	0.41	287.4	2.20
	11/12/09	3.98	708	23.77	0.53	166.4	0.52
	11/18/10	3.88	719	23.02	0.87	357.5	0.94
	11/09/11	3.97	661	24.04	0.71	349.9	1.81
	11/08/12	3.70	649	23.77	0.87	401.0	0.32
	11/06/13	3.83	656	23.85	0.68	368.5	1.18
	11/20/14	4.00	621	21.08	0.93	360.0	0.39
	11/19/15	3.99	577	21.92	0.88	449.2	0.63
	11/10/16	3.72	592	23.93	0.91	320.4	0.83
	11/08/17	3.41	543	23.84	1.03	362.8	1.96
	11/07/18	2.82	169	24.38	2.36	323.4	0.71
	11/18/19	4.24	100	23.97	2.23	126.8	0.46
	11/11/20	4.02	370	23.63	0.99	262.8	1.16
	11/03/21	3.87	483	23.82	0.90	151.5	0.79
	11/09/22	4.73	111	23.09	1.97	230.6	0.14

TABLE 3
GROUNDWATER FIELD PARAMETER RESULTS

Agrico Site
Pensacola, Florida

Well I.D.	Date	pH (su)	Conductivity (µS/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
AC-13D	09/27/97	4.30	580	24.00	9.50	NM	NM
	11/15/00	3.90	570	21.00	NM	NM	0.0
	11/08/01	4.15	565	23.10	NM	NM	0.0
	11/21/02	3.97	599	23.80	NM	NM	0.0
	01/16/04	4.23	629	23.29	0.08	316.2	0.55
	11/11/04	3.81	598	22.68	NM	NM	0.0
	11/10/05	3.98	706	23.81	0.07	228.9	0.17
	11/16/06	3.97	780	23.56	0.04	390.3	0.02
	11/19/07	4.01	796	22.82	0.05	159.7	0.0
	11/11/08	3.90	815	23.49	0.08	211.1	0.13
	11/12/09	4.02	781	23.66	0.16	213.1	0.22
	11/18/10	3.96	741	22.87	0.61	299.5	0.53
	11/09/11	4.01	810	23.97	0.01	297.3	0.54
	11/07/12	3.87	787	23.45	0.46	300.7	0.15
	11/06/13	3.92	761	23.66	0.03	283.4	0.56
	11/19/14	4.00	751	21.06	0.20	251.3	0.10
	11/20/15	4.07	700	21.81	0.06	374.7	0.43
	11/10/16	3.84	652	23.86	0.57	215.3	0.37
	11/08/17	3.37	654	23.62	0.12	357.5	1.50
	11/07/18	4.01	500	23.88	0.51	356.5	0.67
	11/25/19	3.99	636	23.41	0.06	124.5	0.15
	11/12/20	4.08	512	23.42	0.11	262.9	0.31
	11/03/21	3.39	590	23.58	0.06	146.5	0.15
	11/10/22	4.30	544	22.70	0.11	301.1	0.45
AC-24D	09/26/97	4.40	780	23.00	9.50	NM	0.0
	01/21/04	4.11	747	23.09	0.00	344.9	2.40
	11/18/08	4.24	776	22.77	0.11	198.5	0.32
	11/16/09	4.17	784	23.58	0.19	99.8	0.19
	11/23/10	4.12	753	22.80	0.84	303.8	0.30
	11/14/11	4.16	769	23.76	0.85	339.0	0.44
	11/09/12	3.95	848	22.53	0.10	362.1	1.17
	11/07/13	4.05	748	23.56	0.05	312.5	2.00
	11/24/14	4.16	613	23.58	0.29	243.0	1.03
	11/19/15	4.21	604	21.61	0.20	381.4	0.61
	11/10/16	4.00	529	23.69	0.58	265.6	0.42
	11/08/17	3.50	527	23.63	0.16	321.3	2.61
	11/07/18	4.47	281	23.81	0.45	280.6	0.79
	11/21/19	4.10	458	23.53	0.08	107.4	0.10
	11/12/20	4.32	385	23.33	0.08	276.1	0.33
	11/03/21	4.28	422	23.69	0.02	120.6	0.35
	11/10/22	4.86	293	22.56	0.14	244.5	0.61

TABLE 3
GROUNDWATER FIELD PARAMETER RESULTS

Agrico Site
Pensacola, Florida

Well I.D.	Date	pH (su)	Conductivity (µS/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
AC-25D	09/24/97	4.70	1100	24.00	10.40	NM	0.0
	11/19/99	4.30	1400	23.00	NM	NM	0.0
	11/15/00	4.20	1400	22.00	NM	NM	1.00
	11/08/01	4.31	1240	21.00	NM	NM	9.30
	11/21/02	4.15	1420	22.90	NM	NM	0.05
	01/22/04	4.06	1534	22.61	0.68	177.3	4.19
	11/15/04	4.30	1204	22.69	NM	NM	4.49
	11/10/05	4.17	1502	23.28	0.08	125.4	1.10
	11/20/06	4.16	1481	22.79	0.03	360.9	1.50
	11/20/07	4.23	1449	22.26	0.07	181.9	0.25
	11/18/08	4.08	1356	22.23	0.07	-292.3	0.82
	11/17/09	4.17	1398	22.74	0.12	279.6	0.29
	11/23/10	4.11	1388	22.31	0.42	341.2	2.31
	11/15/11	4.15	1422	23.11	0.10	364.9	0.47
	11/14/12	4.00	1371	23.07	0.09	369.8	0.40
	11/12/13	3.96	1326	23.10	0.04	258.7	0.78
	11/20/14	4.14	1287	20.74	0.10	381.4	0.77
	11/20/15	4.21	1222	20.89	0.50	393.3	0.54
	11/09/16	4.07	1163	23.11	0.65	381.0	0.55
	11/09/17	3.56	1152	23.00	0.27	328.5	1.36
	11/07/18	4.41	573	23.20	0.99	300.4	0.70
	11/20/19	4.55	573	22.79	0.16	177.5	0.12
	11/12/20	4.14	877	22.86	0.15	379.8	0.31
	11/02/21	4.23	984	22.93	0.10	165.4	0.22
	11/10/22	4.68	516	22.09	0.42	340.3	0.33
AC-29D	09/27/97	4.10	1700	23.00	9.10	NM	NM
	11/18/99	4.20	1500	22.00	NM	NM	0.0
	11/20/00	4.10	1300	22.00	NM	NM	1.00
	11/13/01	4.29	990	22.20	NM	NM	0.0
	11/25/02	3.87	1075	24.00	NM	NM	0.0
	01/23/04	4.14	1050	23.34	0.48	251.7	0.0
	11/12/04	4.08	797	22.61	NM	NM	2.74
	11/16/05	4.11	723	23.71	0.04	188.7	2.57
	11/17/06	4.25	744	23.68	0.05	348.8	0.00
	11/20/07	4.18	772	22.96	0.10	178.0	0.45
	11/18/08	4.05	790	23.55	0.23	309.6	0.11
	11/17/09	4.13	768	23.58	0.11	171.9	0.18
	11/19/10	4.08	782	23.02	0.39	343.5	0.62
	11/11/11	4.17	794	23.91	0.03	399.9	0.78
	11/13/12	4.04	762	23.74	0.11	267.0	0.30
	11/07/13	4.02	661	23.83	0.12	357.3	0.56
	11/17/14	4.09	655	21.13	0.20	408.3	0.81
	11/19/15	4.09	613	21.80	0.03	427.9	0.45
	11/11/16	3.87	572	23.95	0.42	331.7	0.45
	11/08/17	3.42	567	23.85	0.13	354.2	0.90
	11/07/18	3.96	396	24.16	0.38	369.0	0.73
	11/19/19	4.00	492	24.00	0.06	142.4	0.27
	11/11/20	4.06	420	23.61	0.07	344.5	0.29
	11/03/21	3.65	490	23.93	0.01	161.7	0.34
	11/10/22	4.18	471	22.97	0.10	415.1	0.20

TABLE 3
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Well I.D.	Date	pH (su)	Conductivity (µS/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
AC-35D	11/18/99	4.20	2200	22.00	NM	NM	8.00
	11/15/00	4.10	2200	22.00	NM	NM	0.0
	11/08/01	4.04	2010	21.40	NM	NM	3.80
	11/21/02	3.91	2037	22.80	NM	NM	2.80
	01/15/04	4.05	2060	22.36	0.01	362.0	0.80
	11/15/04	3.57	1607	21.95	NM	NM	3.89
	11/16/05	3.94	1889	22.87	0.13	187.8	9.20
	11/20/06	4.04	1818	22.89	0.05	237.7	2.20
	11/20/07	4.07	1725	22.25	0.06	210.8	0.00
	11/19/08	3.88	1749	22.75	0.23	271.6	0.91
	11/19/09	4.01	1736	22.97	0.09	193.1	1.43
	11/23/10	4.29	1737	22.36	0.38	247.7	8.99
	11/16/11	3.94	1611	22.98	0.10	303.7	0.24
	11/15/12	3.91	1545	22.93	0.06	281.4	0.28
	11/13/13	3.90	1495	23.00	0.08	351.5	0.59
	11/24/14	3.99	1381	23.16	0.84	233.6	0.65
	11/20/15	4.03	1374	20.76	0.10	384.1	0.65
	11/08/16	3.87	1254	23.07	0.94	244.5	0.54
	11/09/17	3.46	1264	23.02	0.44	314.5	1.20
	11/07/18	4.03	940	23.14	0.54	263.4	0.72
	11/18/19	3.97	974	23.10	0.09	126.0	0.38
	11/02/20	4.01	919	22.98	0.25	184.1	0.31
	11/02/21	4.20	1035	23.09	0.07	171.9	0.16
	11/10/22	4.11	983	22.42	0.11	376.0	0.10

NOTES:

su = standard units

µS/cm=microSiemens per centimeter

^{0}C = Degrees Celsius

mg/L = milligrams per Liter

mV = milliVolt

NTU = Nephelometric Turbidity Units

NM = Not Measured

* = turbidity reading above instrument capabilities

Wells purged with a bailer during the May 2001 sampling event

TABLE 4
GROUNDWATER ELEVATIONS

Agrico Site
Pensacola, Florida

Well I.D.	Date	Elevation TOC (ft NGVD)	Water Level (ft btoc)	Water Level Elevation (ft NGVD)
SURFICIAL ZONE				
AC-2S	May-97	88.65	NM	NM
	Sep-97		51.40	37.25
	Nov-97		NM	NM
	May-98		NM	NM
	Nov-98		NM	NM
	May-99		NM	NM
	Nov-99		49.81	38.84
	May-00		NM	NM
	Nov-00		58.68	29.97
	May-01		59.37	29.28
	Nov-01		59.94	28.71
	May-02		61.29	27.36
	Nov-02		60.22	28.43
	May-03		NM	NM
	Jan-04		53.90	34.75
	May-04		54.44	34.21
	Nov-04		52.71	35.94
	May-05		46.87	41.78
	Nov-05		44.76	43.89
	May-06		NM	NM
	Nov-06		50.61	38.04
	May-07		52.94	35.71
	Nov-07		53.89	34.76
	May-08		53.02	35.63
	Nov-08		53.57	35.08
	Nov-09		55.93	32.72
	Nov-10		46.73	41.92
	Nov-11		46.73	41.92
	Nov-12		48.74	39.91
	Nov-13		49.19	39.46
	Nov-14		44.74	43.91
	Nov-15		48.39	40.26
	Nov-16		47.49	41.16
	Nov-17		44.45	44.20
	Nov-18		46.64	42.01
	Nov-19		48.91	39.74
	Nov-20		47.46	41.19
	Nov-21		42.03	46.62
	Nov-22		44.26	44.39
AC-3S	May-97	88.06	54.49	33.57
	Sep-97		55.44	32.62
	Nov-97		NM	NM
	May-98		50.19	37.87
	Nov-98		50.21	37.85
	May-99		56.37	31.69
	Nov-99		57.31	30.75
	May-00		NM	NM
	Nov-00		61.93	26.13
	May-01		NM	NM
	Nov-01		62.97	25.09
	May-02		NM	NM
	Nov-02		63.37	24.69
	May-03		NM	NM
	Jan-04		56.37	31.69
	May-04		57.53	30.53
	Nov-04		56.10	31.96
	May-05		41.03	47.03
	Nov-05		47.79	40.27
	May-06		50.15	37.91
	Nov-06		53.68	34.38
	May-07		56.20	31.86
	Nov-07		57.44	30.62
	May-08		61.65	26.41
	Nov-08		56.90	31.16
	Nov-09		55.84	32.22
	Nov-10		49.74	38.32
	Nov-11		49.74	38.32
	Nov-12		52.24	35.82
	Nov-13		52.24	35.82
	Nov-14		47.85	40.21
	Nov-15		51.75	36.31
	Nov-16		50.27	37.79
	Nov-17		47.35	40.71
	Nov-18		49.77	38.29
	Nov-19		51.95	36.11
	Nov-20		50.60	37.46
	Nov-21		44.90	43.16
	Nov-22		47.00	41.06

TABLE 4
GROUNDWATER ELEVATIONS

Agrico Site
Pensacola, Florida

Well I.D.	Date	Elevation TOC (ft NGVD)	Water Level (ft btoc)	Water Level Elevation (ft NGVD)
SURFICIAL ZONE				
AC-5S	May-97	82.34	43.86	38.48
	Sep-97		43.87	38.47
	Nov-97		NM	NM
	May-98		42.60	39.74
	Nov-98		42.32	40.02
	May-99		45.66	36.68
	Nov-99		46.65	35.69
	May-00		49.45	32.89
	Nov-00		50.98	31.36
	May-01		51.58	30.76
	Nov-01		52.09	30.25
	May-02		53.45	28.89
	Nov-02		51.73	30.61
	May-03		NM	NM
	Jan-04		46.17	36.17
	May-04		46.71	35.63
	Nov-04		44.94	37.40
	May-05		38.01	44.33
	Nov-05		36.86	45.48
	May-06		39.01	43.33
	Nov-06		42.38	39.96
	May-07		44.83	37.51
	Nov-07		45.34	37.00
	May-08		44.86	37.48
	Nov-08		45.49	36.85
	Nov-09		44.35	37.99
	Nov-10		38.33	44.01
	Nov-11		42.20	40.14
	Nov-12		40.62	41.72
	Nov-13		41.05	41.29
	Nov-14		36.75	45.59
	Nov-15		39.77	42.57
	Nov-16		39.15	43.19
	Nov-17		35.78	46.56
	Nov-18		38.54	43.80
	Nov-19		40.57	41.77
	Nov-20		38.86	43.48
	Nov-21		33.07	49.27
	Nov-22		35.60	46.74
AC-6S	May-97	69.32	NM	NM
	Sep-97		43.97	25.35
	Nov-97		NM	NM
	May-98		NM	NM
	Nov-98		NM	NM
	May-99		NM	NM
	Nov-99		44.75	24.57
	May-00		NM	NM
	Nov-00		47.75	21.57
	May-01		NM	NM
	Nov-01		48.10	21.22
	May-02		NM	NM
	Nov-02		48.25	21.07
	May-03		NM	NM
	Jan-04		41.81	27.51
	May-04		NM	NM
	Nov-04		41.10	28.22
	May-05		NM	NM
	Nov-05		34.63	34.69
	May-06		NM	NM
	Nov-06		39.56	29.76
	May-07		NM	NM
	Nov-07		42.32	27.00
	May-08		NM	NM
	Nov-08		41.17	28.15
	Nov-09		40.47	28.85
	Nov-10		35.84	33.48
	Nov-11		39.58	29.74
	Nov-12		38.10	31.22
	Nov-13		37.59	31.73
	Nov-14		34.78	34.54
	Nov-15		37.31	32.01
	Nov-16		36.08	33.24
	Nov-17		33.75	35.57
	Nov-18		36.01	33.31
	Nov-19		37.62	31.70
	Nov-20		35.58	33.74
	Nov-21		30.70	38.62
	Nov-22		33.05	36.27

TABLE 4
GROUNDWATER ELEVATIONS

Agrico Site
Pensacola, Florida

Well I.D.	Date	Elevation TOC (ft NGVD)	Water Level (ft btoc)	Water Level Elevation (ft NGVD)
SURFICIAL ZONE				
AC-7SR	May-97	90.59	52.58	38.01
	Sep-97		NM	NM
	Nov-97		53.29	37.30
	May-98		51.04	39.55
	Nov-98		51.05	39.54
	May-99		54.11	36.48
	Nov-99		54.76	35.83
	May-00		57.93	32.66
	Nov-00		59.70	30.89
	May-01		60.38	30.21
	Nov-01		60.90	29.69
	May-02		62.35	28.24
	Nov-02		61.09	29.50
	May-03		59.64	30.95
	Jan-04		54.99	35.60
	May-04		55.55	35.04
	Nov-04		53.70	36.89
	May-05		47.23	43.36
	Nov-05		45.68	44.91
	May-06		48.27	42.32
	Nov-06		51.46	39.13
	May-07		54.04	36.55
	Nov-07		55.04	35.55
	May-08		54.09	36.50
	Nov-08		54.75	35.84
	Nov-09		53.81	36.78
	Nov-10		47.79	42.80
	Nov-11		47.79	42.80
	Nov-12		49.71	40.88
	Nov-13		50.23	40.36
	Nov-14		45.79	44.80
	Nov-15		49.55	41.04
	Nov-16		48.61	41.98
	Nov-17		45.49	45.10
	Nov-18		47.56	43.03
	Nov-19		50.00	40.59
	Nov-20		48.33	42.26
	Nov-21		42.90	47.69
	Nov-22		45.36	45.23
AC-24S	May-97	79.50	NM	NM
	Sep-97		57.32	22.18
	Nov-97		NM	NM
	May-98		NM	NM
	Nov-98		NM	NM
	May-99		NM	NM
	Nov-99		59.29	20.21
	May-00		NM	NM
	Nov-00		62.81	16.69
	May-01		NM	NM
	Nov-01		63.35	16.15
	May-02		NM	NM
	Nov-02		63.86	15.64
	May-03		NM	NM
	Jan-04		57.97	21.53
	May-04		NM	NM
	Nov-04		NM	NM
	May-05		NM	NM
	Nov-05		51.10	28.40
	May-06		NM	NM
	Nov-06		56.82	22.68
	May-07		NM	NM
	Nov-07		59.45	20.05
	May-08		NM	NM
	Nov-08		59.19	20.31
	Nov-09		57.75	21.75
	Nov-10		57.86	21.64
	Nov-11		57.08	22.42
	Nov-12		54.74	24.76
	Nov-13		54.86	24.64
	Nov-14		51.68	27.82
	Nov-15		55.72	23.78
	Nov-16		CNL*	CNL*
	Nov-17		CNL*	CNL*
	Nov-18		51.59	27.91
	Nov-19		55.45	24.05
	Nov-20		52.97	26.53
	Nov-21		47.79	31.71
	Nov-22		50.84	28.66

TABLE 4
GROUNDWATER ELEVATIONS

Agrico Site
Pensacola, Florida

Well I.D.	Date	Elevation TOC (ft NGVD)	Water Level (ft btoc)	Water Level Elevation (ft NGVD)
SURFICIAL ZONE				
AC-26S	May-97	26.75	NM	NM
	Sep-97		19.62	7.13
	Nov-97		NM	NM
	May-98		NM	NM
	Nov-98		NM	NM
	May-99		NM	NM
	Nov-99		20.36	6.39
	May-00		NM	NM
	Nov-00		20.74	6.01
	May-01		NM	NM
	Nov-01		20.88	5.87
	May-02		NM	NM
	Nov-02		20.58	6.17
	May-03		NM	NM
	Jan-04		20.04	6.71
	May-04		NM	NM
	Nov-04		19.36	7.39
	May-05		NM	NM
	Nov-05		18.29	8.46
	May-06		NM	NM
	Nov-06		19.60	7.15
	May-07		NM	NM
	Nov-07		19.54	7.21
	May-08		NM	NM
	Nov-08		19.61	7.14
	Nov-09		17.99	8.76
	Nov-10		18.26	8.49
	Nov-11		19.80	6.95
	Nov-12		19.12	7.63
	Nov-13		18.82	7.93
	Nov-14		18.52	8.23
	Nov-15		17.95	8.80
	Nov-16		18.23	8.52
	Nov-17		17.35	9.40
	Nov-18		17.21	9.54
	Nov-19		Well Destroyed**	
	Nov-20		Well Destroyed**	
	Nov-21		Well Destroyed**	
	Nov-22		Well Destroyed**	
AC-27S	May-97	18.50	NM	NM
	Sep-97		13.94	4.56
	Nov-97		NM	NM
	May-98		NM	NM
	Nov-98		NM	NM
	May-99		NM	NM
	Nov-99		14.52	3.98
	May-00		NM	NM
	Nov-00		15.24	3.26
	May-01		NM	NM
	Nov-01		15.53	2.97
	May-02		NM	NM
	Nov-02		15.24	3.26
	May-03		NM	NM
	Jan-04		14.55	3.95
	May-04		NM	NM
	Nov-04		13.75	4.75
	May-05		NM	NM
	Nov-05		12.63	5.87
	May-06		NM	NM
	Nov-06		14.19	4.31
	May-07		NM	NM
	Nov-07		13.98	4.52
	May-08		NM	NM
	Nov-08		13.98	4.52
	Nov-09		11.78	6.72
	Nov-10		12.77	5.73
	Nov-11		14.09	4.41
	Nov-12		13.43	5.07
	Nov-13		13.63	4.87
	Nov-14		12.89	5.61
	Nov-15		12.32	6.18
	Nov-16		12.09	6.41
	Nov-17		11.42	7.08
	Nov-18		11.36	7.14
	Nov-19		12.42	6.08
	Nov-20		10.84	7.66
	Nov-21		9.50	9.00
	Nov-22		11.61	6.89

TABLE 4
GROUNDWATER ELEVATIONS

Agrico Site
Pensacola, Florida

Well I.D.	Date	Elevation TOC (ft NGVD)	Water Level (ft btoc)	Water Level Elevation (ft NGVD)
SURFICIAL ZONE				
AC-33S	May-97	89.18	50.54	38.64
	Sep-97		NM	NM
	Nov-97		51.25	37.93
	May-98		48.93	40.25
	Nov-98		48.86	40.32
	May-99		52.12	37.06
	Nov-99		52.80	36.38
	May-00		55.96	33.22
	Nov-00		57.66	31.52
	May-01		58.32	30.86
	Nov-01		58.90	30.28
	May-02		60.43	28.75
	Nov-02		58.71	30.47
	May-03		57.60	31.58
	Jan-04		52.97	36.21
	May-04		53.56	35.62
	Nov-04		51.60	37.58
	May-05		45.37	43.81
	Nov-05		43.65	45.53
	May-06		46.42	42.76
	Nov-06		49.59	39.59
	May-07		52.17	37.01
	Nov-07		52.89	36.29
	May-08		52.12	37.06
	Nov-08		52.80	36.38
	Nov-09		51.79	37.39
	Nov-10		45.88	43.30
	Nov-11		45.88	43.30
	Nov-12		47.70	41.48
	Nov-13		48.30	40.88
	Nov-14		43.95	45.23
	Nov-15		47.62	41.56
	Nov-16		46.83	42.35
	Nov-17		43.56	45.62
	Nov-18		45.55	43.63
	Nov-19		48.25	40.93
	Nov-20		49.25	39.93
	Nov-21		40.74	48.44
	Nov-22		43.56	45.62
AC-34S	May-97	89.09	51.35	37.74
	Sep-97		NM	NM
	Nov-97		52.09	37.00
	May-98		49.89	39.20
	Nov-98		49.93	39.16
	May-99		52.91	36.18
	Nov-99		53.62	35.47
	May-00		56.63	32.46
	Nov-00		58.46	30.63
	May-01		59.20	29.89
	Nov-01		59.73	29.36
	May-02		61.13	27.96
	Nov-02		60.01	29.08
	May-03		58.45	30.64
	Jan-04		53.74	35.35
	May-04		54.27	34.82
	Nov-04		52.48	36.61
	May-05		46.18	42.91
	Nov-05		44.42	44.67
	May-06		46.90	42.19
	Nov-06		50.14	38.95
	May-07		52.69	36.40
	Nov-07		53.47	35.62
	May-08		52.77	36.32
	Nov-08		53.34	35.75
	Nov-09		52.41	36.68
	Nov-10		46.39	42.70
	Nov-11		46.39	42.70
	Nov-12		48.44	40.65
	Nov-13		48.92	40.17
	Nov-14		44.44	44.65
	Nov-15		48.06	41.03
	Nov-16		47.21	41.88
	Nov-17		44.06	45.03
	Nov-18		46.24	42.85
	Nov-19		48.58	40.51
	Nov-20		47.01	42.08
	Nov-21		41.47	47.62
	Nov-22		43.87	45.22

TABLE 4
GROUNDWATER ELEVATIONS

Agrico Site
Pensacola, Florida

Well I.D.	Date	Elevation TOC (ft NGVD)	Water Level (ft btoc)	Water Level Elevation (ft NGVD)
SURFICIAL ZONE				
NWD-2S	May-97	77.53	NM	NM
	Sep-97		39.75	37.78
	Nov-97		NM	NM
	May-98		NM	NM
	Nov-98		NM	NM
	May-99		NM	NM
	Nov-99		41.72	35.81
	May-00		NM	NM
	Nov-00		45.82	31.71
	May-01		NM	NM
	Nov-01		46.77	30.76
	May-02		NM	NM
	Nov-02		47.15	30.38
	May-03		NM	NM
	Jan-04		45.67	31.86
	May-04		NM	NM
	Nov-04		44.49	33.04
	May-05		NM	NM
	Nov-05		37.09	40.44
	May-06		NM	NM
	Nov-06		42.60	34.93
	May-07		NM	NM
	Nov-07		46.25	31.28
	May-08		NM	NM
	Nov-08		45.55	31.98
	Nov-09		44.70	32.83
	Nov-10		38.84	38.69
	Nov-11		42.82	34.71
	Nov-12		NM	NM
	Nov-13		41.32	36.21
	Nov-14		37.36	40.17
	Nov-15		41.01	36.52
	Nov-16		39.45	38.08
	Nov-17		36.72	40.81
	Nov-18		45.05	32.48
	Nov-19		41.15	36.38
	Nov-20		39.41	38.12
	Nov-21		33.83	43.70
	Nov-22		36.08	41.45
NWD-4S	May-97	34.70	NM	NM
	Sep-97		19.33	15.37
	Nov-97		NM	NM
	May-98		NM	NM
	Nov-98		NM	NM
	May-99		NM	NM
	Nov-99		20.68	14.02
	May-00		NM	NM
	Nov-00		22.21	12.49
	May-01		NM	NM
	Nov-01		22.58	12.12
	May-02		NM	NM
	Nov-02		21.89	12.81
	May-03		NM	NM
	Jan-04		20.16	14.54
	May-04		NM	NM
	Nov-04		NM	NM
	May-05		NM	NM
	Nov-05		16.59	18.11
	May-06		NM	NM
	Nov-06		19.92	14.78
	May-07		NM	NM
	Nov-07		20.22	14.48
	May-08		NM	NM
	Nov-08		16.59	18.11
	Nov-09		18.59	16.11
	Nov-10		17.17	17.53
	Nov-11		19.48	15.22
	Nov-12		17.96	16.74
	Nov-13		17.93	16.77
	Nov-14		16.61	18.09
	Nov-15		17.37	17.33
	Nov-16		17.76	16.94
	Nov-17		15.54	19.16
	Nov-18		16.82	17.88
	Nov-19		18.43	16.27
	Nov-20		16.51	18.19
	Nov-21		13.83	20.87
	Nov-22		16.19	18.51

TABLE 4
GROUNDWATER ELEVATIONS

Agrico Site
Pensacola, Florida

Well I.D.	Date	Elevation TOC (ft NGVD)	Water Level (ft btoc)	Water Level Elevation (ft NGVD)
SURFICIAL ZONE				
ACB-31S	May-97	91.92	50.26	41.66
	Sep-97		NM	NM
	Nov-97		51.22	40.70
	May-98		48.78	43.14
	Nov-98		48.50	43.42
	May-99		51.84	40.08
	Nov-99		52.74	39.18
	May-00		55.84	36.08
	Nov-00		57.22	34.70
	May-01		57.94	33.98
	Nov-01		58.53	33.39
	May-02		60.31	31.61
	Nov-02		57.38	34.54
	May-03		57.36	34.56
	Jan-04		53.11	38.81
	May-04		53.62	38.30
	Nov-04		51.34	40.58
	May-05		43.27	48.65
	Nov-05		43.34	48.58
	May-06		46.50	45.42
	Nov-06		49.48	42.44
	May-07		52.25	39.67
	Nov-07		50.98	40.94
	May-08		52.11	39.81
	Nov-08		52.37	39.55
	Nov-09		51.14	40.78
	Nov-10		45.76	46.16
	Nov-11		45.76	46.16
	Nov-12		47.70	44.22
	Nov-13		48.28	43.64
	Nov-14		44.00	47.92
	Nov-15		46.38	45.54
	Nov-16		47.14	44.78
	Nov-17		43.18	48.74
	Nov-18		45.31	46.61
	Nov-19		48.36	43.56
	Nov-20		45.83	46.09
	Nov-21		39.73	52.19
	Nov-22		43.72	48.20
ACB-32S	May-97	88.16	48.11	40.05
	Sep-97		NM	NM
	Nov-97		48.92	39.24
	May-98		46.60	41.56
	Nov-98		46.52	41.64
	May-99		49.84	38.32
	Nov-99		50.62	37.54
	May-00		53.71	34.45
	Nov-00		55.41	32.75
	May-01		56.18	31.98
	Nov-01		56.77	31.39
	May-02		58.30	29.86
	Nov-02		56.65	31.51
	May-03		55.49	32.67
	Jan-04		50.81	37.35
	May-04		51.26	36.90
	Nov-04		49.25	38.91
	May-05		41.13	47.03
	Nov-05		40.99	47.17
	May-06		43.50	44.66
	Nov-06		46.77	41.39
	May-07		49.56	38.60
	Nov-07		49.32	38.84
	May-08		49.64	38.52
	Nov-08		49.95	38.21
	Nov-09		48.83	39.33
	Nov-10		42.83	45.33
	Nov-11		42.83	45.33
	Nov-12		45.18	42.98
	Nov-13		45.67	42.49
	Nov-14		41.20	46.96
	Nov-15		43.93	44.23
	Nov-16		44.11	44.05
	Nov-17		40.27	47.89
	Nov-18		42.67	45.49
	Nov-19		45.22	42.94
	Nov-20		43.42	44.74
	Nov-21		37.17	50.99
	Nov-22		40.49	47.67

NOTES:
ft NGVD = feet above National Geodetic Vertical Datum of 1988.
ft btoc = feet below top of casing.
NM = Not measured
CNL = could not locate
* AC-24S was not located during the November 2016 and 2017 sampling due to pavement blocking the area.
** AC-26S has been lost to City of Pensacola stormwater project construction efforts, and it has been removed from the monitoring well network.

TABLE 4
GROUNDWATER ELEVATIONS

Agrico Site
Pensacola, Florida

Well I.D.	Date	Elevation TOC (ft NGVD)	Water Level (ft btoc)	Water Level Elevation (ft NGVD)
MAIN PRODUCING ZONE				
AC-2D	Sep-97	92.74	57.74	35.00
	Nov-99		61.09	31.65
	Nov-00		NM	NM
	Nov-01		63.02	29.72
	Nov-02		62.53	30.21
	Jan-04		57.36	35.38
	Nov-04		56.39	36.35
	Nov-05		49.02	43.72
	Nov-06		54.55	38.19
	Nov-07		57.49	35.25
	Nov-08		57.20	35.54
	Nov-09		52.65	40.09
	Nov-10		50.83	41.91
	Nov-11		49.11	43.63
	Nov-12		53.03	39.71
	Nov-13		53.03	39.71
	Nov-14		49.20	43.54
	Nov-15		52.26	40.48
	Nov-16		51.76	40.98
	Nov-17		48.57	44.17
	Nov-18		50.83	41.91
	Nov-19		53.05	39.69
	Nov-20		51.21	41.53
	Nov-21		45.74	47.00
	Nov-22		48.55	44.19
AC-3D	Sep-97	88.07	61.91	26.16
	Nov-99		63.15	24.92
	Nov-00		66.42	21.65
	Nov-01		67.42	20.65
	Nov-02		67.09	20.98
	Jan-04		62.17	25.90
	Nov-04		61.35	26.72
	Nov-05		55.02	33.05
	Nov-06		59.95	28.12
	Nov-07		62.71	25.36
	Nov-08		62.17	25.90
	Nov-09		60.78	27.29
	Nov-10		56.32	31.75
	Nov-11		60.06	28.01
	Nov-12		58.33	29.74
	Nov-13		58.41	29.66
	Nov-14		54.90	33.17
	Nov-15		57.96	30.11
	Nov-16		57.03	31.04
	Nov-17		54.60	33.47
	Nov-18		56.18	31.89
	Nov-19		58.11	29.96
	Nov-20		56.60	31.47
	Nov-21		51.56	36.51
	Nov-22		54.04	34.03
AC-5D	Sep-97	82.40	50.16	32.24
	Nov-99		53.21	29.19
	Nov-00		54.83	27.57
	Nov-01		57.58	24.82
	Nov-02		55.47	26.93
	Jan-04		50.67	31.73
	Nov-04		49.60	32.80
	Nov-05		44.83	37.57
	Nov-06		47.18	35.22
	Nov-07		51.22	31.18
	Nov-08		49.67	32.73
	Nov-09		48.40	34.00
	Nov-10		43.27	39.13
	Nov-11		47.48	34.92
	Nov-12		47.24	35.16
	Nov-13		46.90	35.50
	Nov-14		41.88	40.52
	Nov-15		45.43	36.97
	Nov-16		44.11	38.29
	Nov-17		41.32	41.08
	Nov-18		43.08	39.32
	Nov-19		45.22	37.18
	Nov-20		44.44	37.96
	Nov-21		37.90	44.50
	Nov-22		40.54	41.86

TABLE 4
GROUNDWATER ELEVATIONS

Agrico Site
Pensacola, Florida

Well I.D.	Date	Elevation TOC (ft NGVD)	Water Level (ft btoc)	Water Level Elevation (ft NGVD)
MAIN PRODUCING ZONE				
AC-6D	Sep-97	69.19	55.72	13.47
	Nov-99		50.20	18.99
	Nov-00		52.26	16.93
	Nov-01		53.43	15.76
	Nov-02		51.26	17.93
	Jan-04		47.22	21.97
	Nov-04		42.26	26.93
	Nov-05		40.98	28.21
	Nov-06		45.13	24.06
	Nov-07		47.60	21.59
	Nov-08		46.76	22.43
	Nov-09		44.71	24.48
	Nov-10		40.76	28.43
	Nov-11		45.21	23.98
	Nov-12		43.92	25.27
	Nov-13		43.74	25.45
	Nov-14		41.25	27.94
	Nov-15		42.80	26.39
	Nov-16		42.37	26.82
	Nov-17		40.00	29.19
	Nov-18		NM - Damaged	
	Nov-19		43.18	26.01
	Nov-20		41.21	27.98
	Nov-21		37.52	31.67
	Nov-22		39.59	29.60
AC-8D	Sep-97	76.44	66.97	9.47
	Nov-99		63.81	12.63
	Nov-00		65.67	10.77
	Nov-01		65.88	10.56
	Nov-02		65.29	11.15
	Jan-04		61.30	15.14
	Nov-04		59.91	16.53
	Nov-05		56.35	20.09
	Nov-06		60.20	16.24
	Nov-07		61.93	14.51
	Nov-08		61.33	15.11
	Nov-09		59.89	16.55
	Nov-10		57.41	19.03
	Nov-11		60.63	15.81
	Nov-12		59.26	17.18
	Nov-13		58.71	17.73
	Nov-14		57.05	19.39
	Nov-15		58.91	17.53
	Nov-16		57.62	18.82
	Nov-17		55.71	20.73
	Nov-18		57.22	19.22
	Nov-19		58.62	17.82
	Nov-20		56.93	19.51
	Nov-21		53.16	23.28
	Nov-22		54.91	21.53
AC-9D2	Sep-97	64.13	55.27	8.86
	Nov-99		55.39	8.74
	Nov-00		56.68	7.45
	Nov-01		57.01	7.12
	Nov-02		56.87	7.26
	Jan-04		54.56	9.57
	Nov-04		54.02	10.11
	Nov-05		51.37	12.76
	Nov-06		53.83	10.30
	Nov-07		54.73	9.40
	Nov-08		54.36	9.77
	Nov-09		52.58	11.55
	Nov-10		51.46	12.67
	Nov-11		53.87	10.26
	Nov-12		52.88	11.25
	Nov-13		52.68	11.45
	Nov-14		51.47	12.66
	Nov-15		52.37	11.76
	Nov-16		51.75	12.38
	Nov-17		50.45	13.68
	Nov-18		51.31	12.82
	Nov-19		52.31	11.82
	Nov-20		51.00	13.13
	Nov-21		48.85	15.28
	Nov-22		50.22	13.91

TABLE 4
GROUNDWATER ELEVATIONS

Agrico Site
Pensacola, Florida

Well I.D.	Date	Elevation TOC (ft NGVD)	Water Level (ft btoc)	Water Level Elevation (ft NGVD)
MAIN PRODUCING ZONE				
AC-10D	Sep-97	79.48	70.39	9.09
	Nov-99		69.04	10.44
	Nov-00		70.67	8.81
	Nov-01		70.86	8.62
	Nov-02		70.53	8.95
	Jan-04		67.28	12.20
	Nov-04		66.79	12.69
	Nov-05		63.20	16.28
	Nov-06		66.47	13.01
	Nov-07		67.72	11.76
	Nov-08		67.24	12.24
	Nov-09		65.67	13.81
	Nov-10		63.93	15.55
	Nov-11		66.79	12.69
	Nov-12		65.55	13.93
	Nov-13		65.13	14.35
	Nov-14		63.66	15.82
	Nov-15		65.17	14.31
	Nov-16		64.12	15.36
	Nov-17		62.37	17.11
	Nov-18		63.68	15.80
	Nov-19		64.94	14.54
	Nov-20		63.24	16.24
	Nov-21		CNL	CNL
	Nov-22		61.95	17.53
AC-11D	Sep-97	73.17	67.10	6.07
	Nov-99		66.69	6.48
	Nov-00		67.69	5.48
	Nov-01		67.72	5.45
	Nov-02		67.45	5.72
	Jan-04		65.01	8.16
	Nov-04		64.58	8.59
	Nov-05		62.06	11.11
	Nov-06		64.73	8.44
	Nov-07		65.32	7.85
	Nov-08		65.03	8.14
	Nov-09		63.38	9.79
	Nov-10		62.65	10.52
	Nov-11		65.06	8.11
	Nov-12		64.01	9.16
	Nov-13		63.43	9.74
	Nov-14		62.44	10.73
	Nov-15		63.45	9.72
	Nov-16		62.48	10.69
	Nov-17		61.00	12.17
	Nov-18		62.24	10.93
	Nov-19		63.28	9.89
	Nov-20		61.50	11.67
	Nov-21		58.95	14.22
	Nov-22		60.69	12.48
AC-12D	Sep-97	79.23	67.46	11.77
	Nov-99		66.41	12.82
	Nov-00		68.29	10.94
	Nov-01		68.64	10.59
	Nov-02		68.38	10.85
	Jan-04		65.23	14.00
	Nov-04		64.78	14.45
	Nov-05		60.25	18.98
	Nov-06		63.79	15.44
	Nov-07		65.29	13.94
	Nov-08		64.78	14.45
	Nov-09		63.13	16.10
	Nov-10		60.87	18.36
	Nov-11		63.93	15.30
	Nov-12		62.62	16.61
	Nov-13		62.35	16.88
	Nov-14		60.48	18.75
	Nov-15		62.35	16.88
	Nov-16		61.25	17.98
	Nov-17		59.20	20.03
	Nov-18		60.75	18.48
	Nov-19		62.09	17.14
	Nov-20		60.39	18.84
	Nov-21		57.22	22.01
	Nov-22		58.92	20.31

TABLE 4
GROUNDWATER ELEVATIONS

Agrico Site
Pensacola, Florida

Well I.D.	Date	Elevation TOC (ft NGVD)	Water Level (ft btoc)	Water Level Elevation (ft NGVD)
MAIN PRODUCING ZONE				
AC-13D	Sep-97	74.65	67.25	7.40
	Nov-99		66.97	7.68
	Nov-00		68.21	6.44
	Nov-01		68.43	6.22
	Nov-02		68.23	6.42
	Jan-04		65.99	8.66
	Nov-04		65.44	9.21
	Nov-05		63.01	11.64
	Nov-06		65.37	9.28
	Nov-07		66.16	8.49
	Nov-08		65.78	8.87
	Nov-09		63.87	10.78
	Nov-10		63.11	11.54
	Nov-11		65.55	9.10
	Nov-12		64.57	10.08
	Nov-13		64.29	10.36
	Nov-14		63.24	11.41
	Nov-15		64.01	10.64
	Nov-16		63.35	11.30
	Nov-17		61.98	12.67
	Nov-18		62.91	11.74
	Nov-19		63.88	10.77
	Nov-20		62.44	12.21
	Nov-21		60.22	14.43
	Nov-22		61.79	12.86
AC-14D	Sep-97	49.79	45.49	4.30
	Nov-99		45.56	4.23
	Nov-00		46.05	3.74
	Nov-01		46.37	3.42
	Nov-02		46.13	3.66
	Jan-04		44.91	4.88
	Nov-04		44.30	5.49
	Nov-05		42.88	6.91
	Nov-06		44.52	5.27
	Nov-07		44.59	5.20
	Nov-08		44.45	5.34
	Nov-09		42.57	7.22
	Nov-10		42.73	7.06
	Nov-11		44.63	5.16
	Nov-12		43.93	5.86
	Nov-13		43.57	6.22
	Nov-14		43.16	6.63
	Nov-15		43.03	6.76
	Nov-16		42.76	7.03
	Nov-17		41.81	7.98
	Nov-18		Well Destroyed**	
	Nov-19		Well Destroyed**	
	Nov-20		Well Destroyed**	
	Nov-21		Well Destroyed**	
	Nov-22		Well Destroyed**	
AC-21D	Sep-97	75.47	48.23	27.24
	Nov-99		49.66	25.81
	Nov-00		51.21	24.26
	Nov-01		53.63	21.84
	Nov-02		51.62	23.85
	Jan-04		46.83	28.64
	Nov-04		45.82	29.65
	Nov-05		40.22	35.25
	Nov-06		43.75	31.72
	Nov-07		60.11	15.36
	Nov-08		NM	NM
	Nov-09		44.64	30.83
	Nov-10		39.86	35.61
	Nov-11		44.03	31.44
	Nov-12		43.52	31.95
	Nov-13		43.20	32.27
	Nov-14		38.50	36.97
	Nov-15		41.63	33.84
	Nov-16		40.49	34.98
	Nov-17		37.89	37.58
	Nov-18		39.49	35.98
	Nov-19		41.59	33.88
	Nov-20		40.45	35.02
	Nov-21		34.31	41.16
	Nov-22		36.82	38.65

TABLE 4
GROUNDWATER ELEVATIONS

Agrico Site
Pensacola, Florida

Well I.D.	Date	Elevation TOC (ft NGVD)	Water Level (ft btoc)	Water Level Elevation (ft NGVD)
MAIN PRODUCING ZONE				
AC-22D	Sep-97	76.58	63.27	13.31
	Nov-99		NM	NM
	Nov-00		NM	NM
	Nov-01		NM	NM
	Nov-02		61.81	14.77
	Jan-04		57.22	19.36
	Nov-04		56.59	19.99
	Nov-05		51.17	25.41
	Nov-06		55.56	21.02
	Nov-07		57.86	18.72
	Nov-08		57.04	19.54
	Nov-09		55.70	20.88
	Nov-10		52.15	24.43
	Nov-11		55.81	20.77
	Nov-12		54.33	22.25
	Nov-13		54.11	22.47
	Nov-14		51.68	24.90
	Nov-15		53.84	22.74
	Nov-16		52.79	23.79
	Nov-17		50.51	26.07
	Nov-18		52.09	24.49
	Nov-19		53.83	22.75
	Nov-20		51.98	24.60
	Nov-21		47.69	28.89
	Nov-22		CNL***	CNL***
AC-23D	Sep-97	79.51	58.46	21.05
	Nov-99		60.16	19.35
	Nov-00		62.83	16.68
	Nov-01		63.42	16.09
	Nov-02		63.18	16.33
	Jan-04		59.35	20.16
	Nov-04		58.73	20.78
	Nov-05		53.34	26.17
	Nov-06		58.17	21.34
	Nov-07		60.00	19.51
	Nov-08		59.72	19.79
	Nov-09		58.05	21.46
	Nov-10		54.68	24.83
	Nov-11		58.01	21.50
	Nov-12		56.11	23.40
	Nov-13		56.23	23.28
	Nov-14		53.64	25.87
	Nov-15		56.02	23.49
	Nov-16		55.43	24.08
	Nov-17		52.86	26.65
	Nov-18		54.50	25.01
	Nov-19		56.51	23.00
	Nov-21		50.68	28.83
	Nov-22		53.04	26.47
AC-24D	Sep-97	79.60	65.14	14.46
	Nov-99		66.17	13.43
	Nov-00		68.29	11.31
	Nov-01		68.78	10.82
	Nov-02		68.55	11.05
	Jan-04		65.33	14.27
	Nov-04		64.78	14.82
	Nov-05		60.70	18.90
	Nov-06		64.35	15.25
	Nov-07		69.78	9.82
	Nov-08		65.50	14.10
	Nov-09		63.84	15.76
	Nov-10		61.46	18.14
	Nov-11		64.41	15.19
	Nov-12		62.86	16.74
	Nov-13		62.77	16.83
	Nov-14		60.85	18.75
	Nov-15		62.64	16.96
	Nov-16		61.93	17.67
	Nov-17		59.88	19.72
	Nov-18		61.27	18.33
	Nov-19		62.80	16.80
	Nov-20		61.05	18.55
	Nov-21		57.92	21.68
	Nov-22		59.94	19.66

TABLE 4
GROUNDWATER ELEVATIONS

Agrico Site
Pensacola, Florida

Well I.D.	Date	Elevation TOC (ft NGVD)	Water Level (ft btoc)	Water Level Elevation (ft NGVD)
MAIN PRODUCING ZONE				
AC-25D	Sep-97	39.75	33.71	6.04
	Nov-99		34.28	5.47
	Nov-00		35.44	4.31
	Nov-01		35.76	3.99
	Nov-02		35.48	4.27
	Jan-04		33.99	5.76
	Nov-04		33.22	6.53
	Nov-05		31.30	8.45
	Nov-06		33.42	6.33
	Nov-07		33.83	5.92
	Nov-08		33.69	6.06
	Nov-09		32.07	7.68
	Nov-10		31.33	8.42
	Nov-11		33.27	6.48
	Nov-12		32.42	7.33
	Nov-13		32.17	7.58
	Nov-14		31.51	8.24
	Nov-15		31.85	7.90
	Nov-16		31.64	8.11
	Nov-17		30.35	9.40
	Nov-18		31.11	8.64
	Nov-19		32.08	7.67
	Nov-20		30.88	8.87
	Nov-21		28.85	10.90
	Nov-22		30.56	9.19
AC-26D	Sep-97	26.70	20.11	6.59
	Nov-99		19.08	7.62
	Nov-00		20.47	6.23
	Nov-01		20.61	6.09
	Nov-02		20.40	6.30
	Jan-04		19.65	7.05
	Nov-04		19.02	7.68
	Nov-05		18.17	8.53
	Nov-06		18.98	7.72
	Nov-07		19.30	7.40
	Nov-08		19.08	7.62
	Nov-09		17.23	9.47
	Nov-10		17.27	9.43
	Nov-11		18.96	7.74
	Nov-12		18.53	8.17
	Nov-13		18.55	8.15
	Nov-14		17.94	8.76
	Nov-15		17.88	8.82
	Nov-16		17.70	9.00
	Nov-17		16.65	10.05
	Nov-18		17.09	9.61
	Nov-19		Well Destroyed**	
	Nov-20		Well Destroyed**	
	Nov-21		Well Destroyed**	
	Nov-22		Well Destroyed**	
AC-27D	Sep-97	18.55	13.57	4.98
	Nov-99		13.46	5.09
	Nov-00		14.97	3.58
	Nov-01		15.05	3.50
	Nov-02		14.90	3.65
	Jan-04		14.13	4.42
	Nov-04		13.66	4.89
	Nov-05		12.42	6.13
	Nov-06		14.13	4.42
	Nov-07		13.91	4.64
	Nov-08		13.46	5.09
	Nov-09		11.22	7.33
	Nov-10		12.51	6.04
	Nov-11		13.91	4.64
	Nov-12		13.63	4.92
	Nov-13		13.43	5.12
	Nov-14		13.25	5.30
	Nov-15		12.21	6.34
	Nov-16		12.05	6.50
	Nov-17		10.78	7.77
	Nov-18		10.86	7.69
	Nov-19		11.34	7.21
	Nov-20		10.67	7.88
	Nov-21		9.75	8.80
	Nov-22		11.28	7.27

TABLE 4
GROUNDWATER ELEVATIONS

Agrico Site
Pensacola, Florida

Well I.D.	Date	Elevation TOC (ft NGVD)	Water Level (ft btoc)	Water Level Elevation (ft NGVD)
MAIN PRODUCING ZONE				
AC-28D	Sep-97	74.89	65.34	9.55
	Nov-99		65.70	9.19
	Nov-00		67.07	7.82
	Nov-01		67.43	7.46
	Nov-02		67.29	7.60
	Jan-04		64.96	9.93
	Nov-04		NM	NM
	Nov-05		61.72	13.17
	Nov-06		64.19	10.70
	Nov-07		65.12	9.77
	Nov-08		64.78	10.11
	Nov-09		63.02	11.87
	Nov-10		61.83	13.06
	Nov-11		64.21	10.68
	Nov-12		63.20	11.69
	Nov-13		63.02	11.87
	Nov-14		NM	NM
	Nov-15		NM	NM
	Nov-16		62.13	12.76
	Nov-17		60.76	14.13
	Nov-18		61.69	13.20
	Nov-19		62.69	12.20
	Nov-20		61.35	13.54
	Nov-21		59.16	15.73
	Nov-22		60.60	14.29
AC-29D	Sep-97	82.26	62.17	20.09
	Nov-99		62.86	19.40
	Nov-00		65.62	16.64
	Nov-01		66.29	15.97
	Nov-02		66.18	16.08
	Jan-04		61.62	20.64
	Nov-04		61.06	21.20
	Nov-05		55.47	26.79
	Nov-06		59.95	22.31
	Nov-07		62.30	19.96
	Nov-08		61.75	20.51
	Nov-09		60.21	22.05
	Nov-10		56.50	25.76
	Nov-11		60.12	22.14
	Nov-12		58.44	23.82
	Nov-13		58.37	23.89
	Nov-14		55.54	26.72
	Nov-15		58.32	23.94
	Nov-16		57.08	25.18
	Nov-17		54.66	27.60
	Nov-18		56.47	25.79
	Nov-19		58.22	24.04
	Nov-20		56.49	25.77
	Nov-21		52.36	29.90
	Nov-22		54.41	27.85
AC-30D	Sep-97	85.73	71.39	14.34
	Nov-99		72.13	13.60
	Nov-00		74.17	11.56
	Nov-01		74.64	11.09
	Nov-02		74.48	11.25
	Jan-04		71.28	14.45
	Nov-04		70.75	14.98
	Nov-05		66.83	18.90
	Nov-06		70.27	15.46
	Nov-07		71.66	14.07
	Nov-08		71.35	14.38
	Nov-09		69.72	16.01
	Nov-10		67.34	18.39
	Nov-11		70.33	15.40
	Nov-12		68.92	16.81
	Nov-13		68.81	16.92
	Nov-14		66.94	18.79
	Nov-15		68.68	17.05
	Nov-16		67.88	17.85
	Nov-17		65.98	19.75
	Nov-18		67.29	18.44
	Nov-19		68.71	17.02
	Nov-20		67.03	18.70
	Nov-21		64.05	21.68
	Nov-22		65.91	19.82

TABLE 4
GROUNDWATER ELEVATIONS

Agrico Site
Pensacola, Florida

Well I.D.	Date	Elevation TOC (ft NGVD)	Water Level (ft btoc)	Water Level Elevation (ft NGVD)
MAIN PRODUCING ZONE				
AC-35D	Sep-97	10.49	NM	NM
	Nov-99		5.22	5.27
	Nov-00		6.15	4.34
	Nov-01		6.36	4.13
	Nov-02		6.27	4.22
	Jan-04		5.11	5.38
	Nov-04		4.68	5.81
	Nov-05		3.50	6.99
	Nov-06		4.68	5.81
	Nov-07		5.07	5.42
	Nov-08		4.67	5.82
	Nov-09		3.06	7.43
	Nov-10		2.88	7.61
	Nov-11		4.30	6.19
	Nov-12		4.13	6.36
	Nov-13		4.06	6.43
	Nov-14		3.33	7.16
	Nov-15		3.29	7.20
	Nov-16		3.25	7.24
	Nov-17		2.50	7.99
	Nov-18		2.78	7.71
	Nov-19		3.47	7.02
	Nov-20		2.51	7.98
	Nov-21		1.30	9.19
	Nov-22		2.32	8.17
AC-36D	Sep-97	5.26	NM	NM
	Nov-99		2.32	2.94
	Nov-00		2.90	2.36
	Nov-01		3.13	2.13
	Nov-02		2.90	2.36
	Jan-04		2.24	3.02
	Nov-04		1.66	3.60
	Nov-05		1.01	4.25
	Nov-06		1.98	3.28
	Nov-07		1.84	3.42
	Nov-08		1.72	3.54
	Nov-09		0.00	5.26
	Nov-10		0.50	4.76
	Nov-11		1.93	3.33
	Nov-12		1.55	3.71
	Nov-13		1.23	4.03
	Nov-14		1.21	4.05
	Nov-15		0.45	4.81
	Nov-16		0.37	4.89
	Nov-17		0.00	5.26
	Nov-18		0.08	5.18
	Nov-19		Well Destroyed**	
	Nov-20		Well Destroyed**	
	Nov-21		Well Destroyed**	
	Nov-22		Well Destroyed**	
NWD-2D	Sep-97	76.80	51.69	25.11
	Nov-99		51.58	25.22
	Nov-00		53.63	23.17
	Nov-01		55.32	21.48
	Nov-02		53.89	22.91
	Jan-04		51.37	25.43
	Nov-04		50.51	26.29
	Nov-05		44.75	32.05
	Nov-06		48.84	27.96
	Nov-07		52.14	24.66
	Nov-08		50.87	25.93
	Nov-09		49.51	27.29
	Nov-10		45.09	31.71
	Nov-11		49.11	27.69
	Nov-12		48.02	28.78
	Nov-13		47.73	29.07
	Nov-14		44.15	32.65
	Nov-15		46.92	29.88
	Nov-16		45.94	30.86
	Nov-17		43.30	33.50
	Nov-18		39.36	37.44
	Nov-19		47.03	29.77
	Nov-20		45.61	31.19
	Nov-21		40.27	36.53
	Nov-22		42.61	34.19

TABLE 4
GROUNDWATER ELEVATIONS

Agrico Site
Pensacola, Florida

Well I.D.	Date	Elevation TOC (ft NGVD)	Water Level (ft btoc)	Water Level Elevation (ft NGVD)
MAIN PRODUCING ZONE				
NWD-4D	Sep-97	34.70	19.52	15.18
	Nov-99		20.92	13.78
	Nov-00		22.36	12.34
	Nov-01		22.74	11.96
	Nov-02		22.12	12.58
	Jan-04		20.32	14.38
	Nov-04		NM	NM
	Nov-05		16.92	17.78
	Nov-06		20.11	14.59
	Nov-07		20.55	14.15
	Nov-08		16.92	17.78
	Nov-09		18.81	15.89
	Nov-10		17.32	17.38
	Nov-11		19.68	15.02
	Nov-12		18.21	16.49
	Nov-13		18.19	16.51
	Nov-14		16.91	17.79
	Nov-15		17.68	17.02
	Nov-16		18.02	16.68
	Nov-17		15.99	18.71
	Nov-18		17.08	17.62
	Nov-19		18.63	16.07
	Nov-20		17.85	16.85
	Nov-21		14.30	20.40
	Nov-22		16.48	18.22
PIP-D	Sep-97	86.05	NM	NM
	Nov-99		NM	NM
	Nov-00		NM	NM
	Nov-01		NM	NM
	Nov-02		NM	NM
	Jan-04		NM	NM
	Nov-04		NM	NM
	Nov-05		NM	NM
	Nov-06		NM	NM
	Nov-07		NM	NM
	Nov-08		47.63	38.42
	Nov-09		46.74	39.31
	Nov-10		41.05	45.00
	Nov-11		45.23	40.82
	Nov-12		43.24	42.81
	Nov-13		43.53	42.52
	Nov-14		39.15	46.90
	Nov-15		42.49	43.56
	Nov-16		42.25	43.80
	Nov-17		38.49	47.56
	Nov-18		40.74	45.31
	Nov-19		43.23	42.82
	Nov-20		41.59	44.46
	Nov-21		35.24	50.81
	Nov-22		38.60	47.45

NOTES:

ft NGVD = feet above National Geodetic Vertical Datum of 1988.

ft btoc = feet below top of casing.

NM = Not Measured

CNL = Could not locate

** AC-14D, AC-26D, and AC-36D were not located during 2019. They were determined to have been destroyed by City of Pensacola stormwater project construction efforts and have been removed from the monitoring well network.

***AC-22D could not be located during the November 2022 sampling event due to new construction at the location.

TABLE 5
SURFACE WATER FIELD PARAMETER RESULTS

Agrico Site
Pensacola, Florida

Surface Water Location	Date	pH (su)	Conductivity (µS/cm)	Temperature (^{0}C)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Salinity (ppth)
BT-02 Bayou Texar (Brackish Water)	11/17/2010	7.44	28,836	21.43	6.07	180.4	7.98	17.74
	11/17/2011	7.63	33,288	21.92	8.15	-9.5	11.30	20.84
	11/8/2012	7.58	36,769	22.35	7.39	70.8	12.10	23.24
	11/11/2013	7.08	27,605	22.12	7.39	84.0	30.50	NM
	11/21/2014	7.23	33,886	17.31	102.3	122.0	5.67	21.49
	11/16/2015	7.53	9,987	18.35	83.3	191.0	12.6	5.66
	11/7/2016	7.07	22,000	23.64	6.2	150.0	6.6	13.24
	11/6/2017	6.87	10,662	25.41	5.59	123.2	3.64	5.54
	11/8/2018	6.46	18,764	6.26	23.96	171.6	25.8	NM
	11/13/2019	9.64	6,210	11.73	90.4	213.9	6.73	3.46
	11/10/2020	7.24	21,779	23.06	5.79	304.1	10.9	NM
	11/4/2021	7.30	13,609	21.63	5.77	86.9	10.4	8.78
	11/9/2022	6.55	16,450	23.49	5.32	159.7	2.59	12.80
BT-107 Bayou Texar (Brackish Water)	11/17/2010	7.39	29,165	21.45	6.14	193.5	5.30	18.05
	11/17/2011	7.51	32,523	21.61	7.96	9.9	9.80	20.48
	11/8/2012	7.23	36,230	22.27	7.01	73.6	10.80	22.94
	11/11/2013	6.89	28,619	22.69	6.37	81.2	7.85	NM
	11/21/2014	7.85	35,026	17.39	92.9	119.7	5.75	22.04
	11/16/2015	7.09	7,907	18.15	77.1	185.3	9.45	4.41
	11/7/2016	6.99	18,967	23.87	6.4	163.1	6.61	11.26
	11/6/2017	6.82	10,606	25.46	4.77	135.0	3.53	5.99
	11/8/2018	6.40	18,045	23.95	5.93	179.6	9.13	NM
	11/13/2019	7.80	11,199	13.13	8.22	192.1	6.54	6.26
	10/10/2020	7.21	21,559	22.87	5.92	230.3	7.57	NM
	11/4/2021	7.19	14,759	22.54	5.71	56.5	9.61	11.87
	11/9/2022	6.43	4,634	20.45	8.09	120.3	3.00	2.62
BT-127 Bayou Texar (Brackish Water)	11/17/2010	7.33	28,735	21.31	5.87	240.7	6.21	17.64
	11/17/2011	7.69	35,000	21.73	7.94	-1.8	10.40	22.07
	11/8/2012	7.37	36,564	22.60	7.44	67.5	10.30	22.95
	11/11/2013	6.87	28,952	22.86	6.53	84.9	5.86	NM
	11/21/2014	6.96	34,062	17.53	7.73	117.6	9.27	21.43
	11/16/2015	5.38	18,851	20.21	63.1	203.8	4.03	9.39
	11/7/2016	6.92	18,618	24.48	8.7	185.0	8.81	11.03
	11/6/2017	6.70	11,683	25.79	5.25	147.1	4.46	6.54
	11/8/2018	6.23	16,252	23.79	6.56	187.7	12.3	NM
	11/13/2019	7.89	9,226	13.71	8.29	199.5	7.66	5.28
	11/10/2020	7.21	21,288	22.98	5.61	250.2	11.9	NM
	11/4/2021	7.19	14,759	22.54	5.71	56.5	9.61	11.87
	11/9/2022	6.70	6,619	20.03	7.47	141.6	3.35	3.03

NOTES:

^{0}C = Degrees Celsius
µs/cm= microSiemens per centimeter
mg/L = milligrams per Liter
mV = milliVolt
NM = not measured
NTU = Nephelometric Turbidity Units
ppth=parts per thousand
SU = Standard Units

TABLE 6

ADVISORY NOTICE DISTRIBUTION LIST
WATER WELL, IRRIGATION/PLUMBING, AND POOL CONTRACTORS

OU-2 AGRICO SITE
PENSACOLA, FLORIDA

NAME	COMPANY NAME	ADDRESS	CITY	STATE	POSTAL CODE
	EXECUTIVE LANDSCAPING	1436 E OLIVE RD	PENSACOLA	FL	32505
	RAINFALL INC	2740 JARADA AVE	PENSACOLA	FL	32505
	BRYAN'S LAWN MAINTENANCE, INC	8328 LILLIAN HWY	PENSACOLA	FL	32506
	1ST CHOICE IRRIGATION, LLC	7128 GLENDORA ST	PENSACOLA	FL	32526
	PERDUE LANDSCAPING AND LAWN	3211 BARRANCAS AVE	PENSACOLA	FL	32507
	EAST BAY LANDSCAPING AND IRRIGATION	8365 HIGHWAY 90	MILTON	FL	32583
	COASTAL LAWN SPRINKLER	4091 FARRINGTON RD	MILTON	FL	32583
	SHOWCASE POOL & SPA	401 MASSACHUSETTS AVE	PENSACOLA	FL	32503
	GULF COAST LANDSCAPING SERVICES	3648 LIMOUSIN DR	PACE	FL	32571
	FAITHFUL POOL SERVICE INC	3407 OLD FAIRFIELD DR	PENSACOLA	FL	32505
	BLUE HAVEN POOLS & SPAS	2071 US HIGHWAY 98 W	SANTA ROSA	FL	32459
	PAYNE POOL PROFESSIONALS	2166 RESERVATION RD	GULF BREEZE	FL	32563
	EMERALD COAST FIBERGLASS POOLS	9465 PENSACOLA BLVD	PENSACOLA	FL	32504
	PROFESSIONAL PATIO & POOL ENCLOSURE	8605 WESTVIEW LN	PENSACOLA	FL	32514
	POOL GUARD OF THE GULF COAST	1440 E OLIVE RD	PENSACOLA	FL	32514
	W.P. POOLS & CONCRETE	4881 GLOVER LN	MILTON	FL	32570
	WALLACE SPRINKLER INC	3607 ANDREW AVE	PENSACOLA	FL	32505-4108
	FLORIDA IRRIGATION SUPPLY INC	2810 COPTER ROAD	PENSACOLA	FL	32514
	ALL SEASONS POOL SERVICE	29 ADKINSON DR	PENSACOLA	FL	32506
	ALL SERVICES POOL SPA`	5585 WINDHAM RD	MILTON	FL	32507
	AVALON POOLS	4230 TANFIELD RD	MILTON	FL	32583
	PACE POOL & SPA SERVICES, INC.	4873 WEST SPENCER FIELD RD.	PACE	FL	32571-1232
	DOLPHIN POOLS	3210 GULF BREEZE PKWY	GULF BREEZE	FL	32563-2730
	FAMILY POOL AND SPA & BILLIARD CENTERS	3920 N. DAVIS HIGHWAY	PENSACOLA	FL	32503
	JOHNSON POOLS, INC	401 MASSACHUSETTS AVE	PENSACOLA	FL	32505-4207
	PARKER POOLS	PO BOX 11769	PENSACOLA	FL	32524-1769
	PENSACOLA POOLS INC	8514 PENSACOLA BLVD	PENSACOLA	FL	32534
	PENSACOLA POOLS INC	3480 GULF BREEZE PKWY	GULF BREEZE	FL	32563-3406
	PINCH A PENNY POOL PATIO SPA	3307 GULF BREEZE PKWY	GULF BREEZE	FL	32563
	BEDROCK WELLS - AAA SPRINKLERS & LANDSCA	6201 N. BLUE ANGEL PKWY	PENSACOLA	FL	32526-8006
	MCGOWAN WATER WORKS INC	3041 E. KINGSFIELD RD.	PENSACOLA	FL	32514-9753
	COFFEY S G WELL SVCE	331 BURNT PINE RD	BREWTON	AL	36426-5817
	RUSSELLS WELL AND PUMP SERVICES	4053 KENTWOOD ST.	MILTON	FL	32571-2432
	WINDHAM & SON PUMPING SUPPLY	5800 MULDOON RD.	PENSACOLA	FL	32526-1699
ALAN ARD	ARD'S CLOSED LOOP	1931 TILLIMAN LN	PENSACOLA	FL	32506
GLENN ASHLEY	ASHLEY WELL DRILLING	8056 WAKULLA SPGS RD	TALLAHASSEE	FL	32305
GREG BAILEY	GREG'S IRRIGATION	4264 BARLOW RD	CRESTVIEW	FL	32536
RONNIE BARLOW		4575 J BARLOW ROAD	JAY	FL	32565
BOBBY BARLOW	BARLOW WATER SERVICES	P O BOX 539	WEWAHITCHKA	FL	32465
MACK H BEASLEY	MACK H BEASLEY WATER WELL SERVICE	4940 BECK AVE	JAY	FL	32565
TERRY BERRY	BERRY'S WELL SERVICE	225 SPENCER DR	FT WALTON BEACH	FL	32547
PAUL BRANSON	COFFEY'S WELL SERVICE	P O BOX 564	JAY	FL	32565
TERRY BRANTON	BRANTON BROTHERS WELL DRILLING	755 MALVERN RD	DOTHAN	AL	36301
MORGAN BROWN		28 MOONEY ROAD NE	FT WALTON BEACH	FL	32547
DOCK L BRYANT JR	B & B WELL DRILLING	108 FETTING AVE	FT WALTON BEACH	FL	32547
TROY E BYRD		P O BOX 371	ATMORE	AL	36504
MARK COBB	C & S WELL SERVICE	2712 TWILIGHT AVE	PANAMA CITY	FL	32405
SANDRA COFFEY	S G COFFEY WELL SERVICE	409 BURNT PINE RD	BREWTON	AL	35425-5859
JIMMY H COFIELD	JIM'S WELL DRILLING	P O BOX 93	FLOMATON	AL	36441
TE COLLEY		5558 ORIOLE ST	MILTON	FL	32570
ARTHUR COLLINGSWORTH		6806 KEITHLEY RD	PANAMA CITY	FL	32404
JAMES R CONNER	JAMIE CONNER WELL DRILLING SERVICES	1278 LEAVINS RD	WESTVILLE	FL	32464
JOHN COOKE	COOKE'S WELL DRILLING SERVICE	4924 SATIN DR	BASCOM	FL	32423
VERNON CREAMER	COASTAL WELL DRILLING	11939 RACOON RD	SOUTHPORT	FL	32409
WILLIAM DAVIS	BILL DAVIS DRILLING SERVICES	342 FOREST ROAD 13	SOPCHOPPY	FL	32355
ROBERT DE VALCOURT	PERDIDO HEATING & AIR	5555 BAUER RD	PENSACOLA	FL	32507
ROBIN DEAN	ROBIN DEAN WELL DRILLING	1904 WAX MYRTLE RD	TALLAHASSEE	FL	32310
ROBERT M DORRIETY		5251 COY BURGESS RD	DEFUNIAK SPRINGS	FL	32435
CURT DOYLE	GEOTECHNICAL SERVICES INC	904 BUTLER DR	MOBILE	AL	36693
BOB ECHOLD	NORTHWEST FLORIDA WATER MANGEMENT DIS	5453 DAVISSON RD	MILTON	FL	32583-5329
MATT GARCIA		1426 LOLA DR	TALLAHASSEE	FL	32301
DONALD GELDBAUGH	SOUTHERN COMPANY SERVICES INC	ONE ENERGY PLACE	PENSACOLA	FL	32520
ALPHA GIPSON	ALPHA GIPSON	6131 AGELINA RD	PENSACOLA	FL	32504
WENDELL HALL		6620 CHIPEWA ST	PANAMA CITY	FL	32404
JOSEPH HARRELL JR	GEO ENERGY DRILLING INC	P O BOX 1454	CRAWFORDVILLE	FL	32326
HOWARD HAYES		20181 SE CL CAPPS RD	BLOUNTSTOWN	FL	32424
STEVE HOLT	HOLT WELL SERVICE	8331 HWY 189 N	BAKER	FL	32531
EDGAR HUGHES		6302 CR 636	CHANCELLOR	AL	36316
LEWIS C JOHNSON		4537 JAY BARLOW RD	JAY	FL	32565

TABLE 6

ADVISORY NOTICE DISTRIBUTION LIST
WATER WELL, IRRIGATION/PLUMBING, AND POOL CONTRACTORS

OU-2 AGRICO SITE
PENSACOLA, FLORIDA

NAME	COMPANY NAME	ADDRESS	CITY	STATE	POSTAL CODE
DAVID L JOHNSON	JOHNSON WELL DRILLING	5056 OAK DR	BASCOM	FL	32423
JAMES JOHNSON		7716 SUNSHINE HILL RD	MOLINO	FL	32577
DON JONES	LARRY JACOBS & ASSOCIATES	328 E GADSDEN ST	PENSACOLA	FL	32501
BILL KIGHT		3511 N CENTRY BLVD	MCDAVID	FL	32568
EVERETTE LEAVINS	EVERETTE B LEAVINS WELL DRILLING	1239 LEAVINS RD	WESTVILLE	FL	32464
JAMES T LEWIS	ADVANCED BORING INC	4931 WOOD CLIFF DR	PENSACOLA	FL	32504
ROBERT LIVINGSTON		4909 PARK ST	PANAMA CITY	FL	32404
JOHN MARTIN		P O BOX 623	DEFUNIAK SPRINGS	FL	32435
SAM MARTIN	SAM MARTIN WELL DRILLING	P O BOX 623	DEFUNIAK SPRINGS	FL	32435
BILLY MCCLAIN	FLORIDA DEPARTMENT OF ENVIRONMENTAL PR	2600 BLAIR STONE ROAD	TALLAHASSEE	FL	32399
GENE MCGOWAN		3041 E KINGSFIELD RD	PENSACOLA	FL	32526
MICHAEL MCGUYRE	MCGUYRE'S WELL DRILLING	4090 BUFORD LN	MILTON	FL	32583
TE MILLS	MILLS WELL DRILLING & PUMPS	5355 TOWER RD	TALLAHASSEE	FL	32303
BRICE MOODY	BRICEY MOODY WELL DRILLING	160 SAN MARCOS DR	CRAWFORDFILLE	FL	32327
JOHN A MORRILL		3805 A SPRINGHILL RD	TALLAHASSEE	FL	32310
FRANK J MOSLEY	MOSLEY WELL & PUMP	7685 FAIRBANKS FERRY RD	HAVANA	FL	32333
CLYFTON MYERS	MYERS PUMP & INSTALLATION	1391 ACORN LN	PENSACOLA	FL	32514
JAMES PEEL	SOUTHERN TESTING & DRILLING INC	1419 ORANGE HILL RD	CHIPLEY	FL	32428
TONY POWELL		P O BOX 116	URIAH	AL	36480
DOUGLAS RAY	FREETIME IRRIGATION	107 22ND STREET	NICEVILLE	FL	32578
CARL REVELL JR	REVELL WELL DRILLING	P O BOX 123	SOPCHOPPY	FL	32358
RICHARD ROWE		P O DRAWER 1389	TALLAHASSEE	FL	32302
LAMAR ROWE	ROWE DRILLING COMPANY INC	P O DRAWER 1389	TALLAHASSEE	FL	32302
ROBERT SCRIBNER	KCW ELECTRIC CO INC	4765 SHELFER RD	TALLAHASSEE	FL	32310
WAYNE SIMMONS	SIMMONS WELL DRILLING	3152 BOB SIKES ROAD	DEFUNIAK SPRINGS	FL	32435
MILFORD SIMS		3606 S LAKEWOOD DR	TALLAHASSEE	FL	32310
STEVE SMALLEY	NORTH FLORIDA WELL DRILLING	24396 LONE STAR CT	TALLAHASSEE	FL	32310
DONALD SMITH	DONALD SMITH COMPANY INC	746 E MAIN	HEADLAND	FL	36345
FILBERT SMITH	ARDAMAN AND ASSOCIATES	3175 W THARPE ST	TALLAHASSEE	FL	32303
MICHAEL SUGGS		936 PIONEER RD	CHIPLEY	FL	32428
CLIFFORD TAYLOR	POLLOCK WELL DRILLING INC	7307 EVEREST ST	PANAMA CITY	FL	32404
VJ THOMPSON III	THOMASON DEEP WELL DRILLING	P O DRAWER 91537	MOBILE	AL	36691
VONNIE TOLBERT	VONNIE'S WELLS	7621 SAMANTHA CIRCLE	NAVARRE	FL	32566
JAMES TRINDELL		6 THREE SISTERS ROAD	CRAWFORDVILLE	FL	32327
DEN A TRUMBULL JR	CULLIGAN WATER SERVICES INC	315 E 15TH ST	PANAMA CITY	FL	32405
VICTOR C WALLACE	WALLACE SPRINKLER & SUPPLY INC	P O BOX 1313	GULF BREEZE	FL	32562
ALEX WALTERS		10704 ALEX DRIVE	FOUNTAIN	FL	32438
CHALES M WARD	CLYDE'S WELL SERVICE INC	4537 J BARLOW ROAD	JAY	FL	32565
JAMES W WESTBROOK	J & W WELL DRILLING	P O BOX 135	BASCOM	FL	32423
CHARLES WINDHAM	WILLIAMSON WELL DRILLING INC	5800 MULDOON RD	PENSACOLA	FL	32506
TERRY WOODWARD	TERRY'S WELL SERVICE	5001 CHIMES WAY	PENSACOLA	FL	32507
CHARLES WYCKOFF		12751 SMITH YOUNG RD	MOBILE	AL	36695
	ARNO'S PLUMBING AND HEATING	6917 SEA CRAB CIRCLE	NAVARRE	FL	32566
	ARTO'S SEWER AND DRAIN PLUMBING CO INC	P O BOX 18116	PENSACOLA	FL	32523
	BARBERI PLUMBING	1022 UNDERWOOD AVE	PENSACOLA	FL	32504
	BELLVIEW PLUMBING CO INC	3101 MULDOON RD	PENSACOLA	FL	32526
	BOYD PLUMBING	95 STONE BLVD.	CANTONMENT	FL	32533
	CLYDE'S SERVICES	815 N 77TH AVE	PENSACOLA	FL	32506
	COKER PLUBMING CO	521 MILLS AVE	PENSACOLA	FL	32507
	COOPER GARY PLUMBING	5676 COUNTRY SQUIRE DR	MILTON	FL	32570
	ESCAMBIA PLUMBING AND HEATING CO	1860 ATWOOD DR	PENSACOLA	FL	32514
	FAVORITE PLUMBING CO	2828 N T STREET	PENSACOLA	FL	32505
	JIM'S PLUMBING OF NAVARRE INC	1888 COMMODORE ST	NAVARRE	FL	32566
	MMI MECHANICAL CONTRACTOR	4904 W SPENCER FIELD	PACE	FL	32571
	MCCLUSKEY PLUMBING CO	808 W ZARRAGOSSA STREET	PENSACOLA	FL	32501
	PAYNE & SON PLUMBING, HEATING, AIR CONDITIONING	P O BOX 2575	PENSACOLA	FL	32513
	PENSACOLA PLUMBING CONTRACTORS	2313 BROOKWOOD PLACE	PENSACOLA	FL	32533
	QUALITY ONE PLUMBING CO	5724 PALMETTO PL	MILTON	FL	32570
	ROOT-A-SEWER INC	2701 LONG LEAF DR	PENSACOLA	FL	32526
	S & S PLUMBING AND MECHANICAL INC	7845 PINE FOREST RD	PENSACOLA	FL	32526
	SANTA ROSA PLUMBING	5510 TOM SAWYER RD	MILTON	FL	32583
	SPIVEY & SON PLUMBING INC	9820 VONNA JO DR	PENSACOLA	FL	32506
	VAN PLUMBING	3248 CLEMSON RD	GULF BREEZE	FL	32561
	WARRINGTON PLUMBING INC	910 W MAIN	PENSACOLA	FL	32501
	BRAUN'S SPRINKLER SERVICE	10852 BERRYHILL RD	PENSACOLA	FL	32506
	GORMAN CO INC	4149 WAREHOUSE LANE	PENSACOLA	FL	32505
	PHOENIX LANDSCAPE & IRRIGATION INC	P O BOX 924	GULF BREEZE	FL	32562
	RAINFALL LANDSCAPE & SPRINKLER	9850 NORTH LOOP RD	PENSACOLA	FL	32507
	TIECO GULF COAST INC	540 W MICHIGAN AVE	PENSACOLA	FL	32505
	TRIM A LAWN LAWN & GARDEN CENTER	1405 GULF BEACH HIGHWAY	PENSACOLA	FL	32507

TABLE 6

ADVISORY NOTICE DISTRIBUTION LIST
WATER WELL, IRRIGATION/PLUMBING, AND POOL CONTRACTORS

OU-2 AGRICO SITE
PENSACOLA, FLORIDA

NAME	COMPANY NAME	ADDRESS	CITY	STATE	POSTAL CODE
	MCGOWAN IRRIGATION	3041 E KINGSFIELD RD	PENSACOLA	FL	32526
	GARVEY IRRIGATION	PO BOX 250	MOLINO	FL	32577-0250
	KEN GRIFFIN LANDSCAPE CONTRACTORS INC	3004 WESTFIELD RD	GULF BREEZE	FL	32563
	WATER WORKS SPRINKLER SYSTEMS & PONDS	4669 ANNA SIMPSON RD	MILTON	FL	32583
	C & H PLUMBING	5239 OLD BERRYHILL RD	MILTON	FL	32570
	DEALE PLUMBING	7019 WOODLEY DR	PENSACOLA	FL	32503
	DOWNS PLUMBING & GAS	5840 MULDOON RD	PENSACOLA	FL	32526
	FLORIDA AIR CONDITIONING & PLUMBING	9310 BRIDLEWOOD RD	PENSACOLA	FL	32526
	HIGH TECH PLUMBING & HEATING	8375 RALEIGH CIRCLE	PENSACOLA	FL	32534
	HOMEOWNERS' ASSURANCE INC	4382 HIGHWAY 90	PACE	FL	32571
	PACE PLUMBING	4274 BELL LANE	PACE	FL	32571
	TERRY SMITH PLUMBING INC	22 W NINE & ONE HALF MILE RD	PENSACOLA	FL	32534
	ENSLEY SEPTIC TANK SERVICE	10491 BETMARK RD	PENSACOLA	FL	32534
	ALTERNATE RAIN SYSTEMS	5353 N BLUE ANGEL PARKWAY	PENSACOLA	FL	32526
	AMORE SPRINKLER CO	3652 GARDENVIEW RD	PACE	FL	32571
	IRRIGATION ENGINEERING	920 E LLOYD ST	PENSACOLA	FL	32503
	PERDIDO IRRIGATION SYSTEMS	5555 BAUER ROAD	PENSACOLA	FL	32507
	RIKER IRRIGATION	1144 W NINE MILE RD	PENSACOLA	FL	32534
	M7N VENDING SERVICE	440 W. HANNAH STREET	PENSACOLA	FL	32534
	GULF COAST POOL & SPA INC	2461 LANGLEY AVE	PENSACOLA	FL	32504
	MANNING BROS POOL INC	9465 PENSACOLA BLVD	PENSACOLA	FL	32534
	VAUGHN'S INC OF PENSACOLA	1290 NINE MILE ROAD	PENSACOLA	FL	32534
	ALLPOOLS	8062 BRIOR OAK DRIVE	PENSACOLA	FL	32514
	AVALON POOLS	4230 TANFIELD ROAD	MILTON	FL	32583
	COX POOLS	22656 F CANAL ROAD	ORANGE BEACH	AL	36561
	D K POOLS INC	4111 LILLIAN HWY	PENSACOLA	FL	32505-2202
	L W POOLS	11600 MOBILE HIGHWAY	PENSACOLA	FL	32526
	PINCH A PENNY POOL PATIO SPA	8090 N 9th AVE	PENSACOLA	FL	32514
	SOUTH CENTRAL POOL SUPPLY	8808 Grow Dr	PENSACOLA	FL	32514
	JOHNSON POOLS INC.	401 Massachusetts Ave	PENSACOLA	FL	32505
	FAGANS CUSTOM POOLS INC.	13440 Serenity Cir	PENSACOLA	FL	32506
	ATLANTIS POOL & SPA	2075 Elaine Cir	PENSACOLA	FL	32504
	SUPERIOR POOLS PRODUCTS	3338 Mclemore Dr	PENSACOLA	FL	32514
	AFFORDABLE TREE LAWN & POOL	2011 W. Garden Street	PENSACOLA	FL	32502
	EMERALD COAST IRRIGATION LLC	3041 Kingsfield Road	PENSACOLA	FL	32514
	JERRY PATE TURF & IRRIGATION INC.	301 Schubert Drive	PENSACOLA	FL	32504
	GULFSIDE LANDSCAPING INC	8221 Kipling Street	PENSACOLA	FL	32514
	GONZALEZ PLUMBING & SPRINKLER	1801 Government Street	PENSACOLA	FL	32502
	AIR DESIGN SYSTEMS INC.	400 Lurton St	PENSACOLA	FL	32505
	ALL PRO PLUMBING & DRAIN	1765 E Nine Mile Rd Ste 1	PENSACOLA	FL	32514
	ARTO'S SEWER & DRAIN SERVICE INC	2923 Rhythm St	PENSACOLA	FL	32505
	CERTIFIED PLUMBING SEWER & GAS	7075 N Blue Angel Pkwy	PENSACOLA	FL	32526
	PRICHARDS PLUMBING	40 Olive Rd	PENSACOLA	FL	32514
	Terry Lambert Plumbing & Gas Service Inc	8145 Whitmire Dr	PENSACOLA	FL	32514
	KIMMON PLUMBING INC.	2560 Gulf Breeze Ave	PENSACOLA	FL	32507
	GMC PLUMBING CONTRACTOR	664 Whitney Dr	PENSACOLA	FL	32503
	BALDWIN PLUMBING WORKS INC	3521 Bauer Rd	PENSACOLA	FL	32506
	PLUMBERSMITH	9312 Bridlewood Rd	PENSACOLA	FL	32526
	POOL CARE	600 Careondelay Drive	PENSACOLA	FL	32506
	KENNY SMITHS POOL CARE	7134 Inniswold Drive	PENSACOLA	FL	32526
	LORING IRRIGATION	2406 Escambia Avenue	PENSACOLA	FL	32503
	THE FINISH LINE COMPANIES	3370 Pursell Lane	PENSACOLA	FL	32526
	GULF STREAM LANDSCAPING & IRRIGATION	8449 Old Palafox Street	PENSACOLA	FL	32504
	KEN GRIFFIN LANDSCAPE CONTRACTORS	3004 Westfield Road	GULF BREEZE	FL	32563
	LAYNE CHRISTENSEN CO	3720 N. Palafox Street	PENSACOLA	FL	32505
	K C W WATER WELL SERVICE	4765 Shelfer Road	TALLAHASSEE	FL	32305
	DRILLING SOLUTIONS IINC.	5624 Pasture Lane	JAY	FL	32565
	AQUA POOL & PATIO	5904 N. Palafox St	PENSACOLA	FL	32503
	SURFSIDE POOLS	6677 Old Bagdad Hwy.	MILTON	FL	32583

TABLE 7
IRRIGATION WELL INFORMATION

Agrico Site
Pensacola, Florida

ID	PERMIT	NAME	STREET	DIAMETER (INCHES)	DEPTH FT. BLS	CASING FT. BLS	AQUIFER	ABANDONMENT OFFER LETTER SENT	IRRIGATION WELL SAMPLED	DATE SAMPLED	WELL ABANDONED	REMARKS
1		C.E. Anderson	905 TEXAR DRIVE	2	85	75	SZ	NO	NO			Outside of area of expected impacts for SZ
2	41(HC-1)	Holy Cross Cemetary Diocese of Pensacola	1300 E. HAYES	4	160	140	MPZ	YES	YES	11/28/2000		Two wells exist for cemetary, for sampling purposes labeled HC-1 and HC-2
	41(HC-2)	Holy Cross Cemetary Diocese of Pensacola	1300 E. HAYES	4	160	140	MPZ	YES	YES	11/28/2000		Two wells exist for cemetary, for sampling purposes labeled HC-1 and HC-2
3	81	C. Hass	349 SILVER ROAD	4	82	82	SZ	NO	NO			Outside of area of expected impacts for SZ
4	82	W.S. VanMetre	1221 TEXAR	4	95	95	SZ	NO	NO			Outside of area of expected impacts for SZ
5	97	O. English	3803 N. 10TH AVE.	4	71	130	120	yes	YES	3/13/2001		
6	103	Dr. D. McGraw	1680 TEXAR	4	71	61	SZ	NO	NO			Outside of area of expected impacts for SZ
7	109	K. Wolfersterger	2700 MAGNOLIA AVE.	4	115	100	MPZ	YES	NO			
8	110	F & Kathleen Edsel, Jr	2721 BLACKSHEAR	4	UNK	UNK	UNK	RETURNED	NO			
9	111	J. Colley	1750 E. TEXAR DR.	2	85	80	SZ	NO	NO			Outside of area of expected impacts for SZ
10		Curry	2701 N. 16TH AVE.	4	158	143	MPZ	YES	YES	3/15/2001		
11	123	D. Lavin	3632 MENENDEZ DR.	4	73	63	SZ	NO	NO			Outside of area of expected impacts for SZ
12	124	Dr. B. Beidleman	2909 BLACKSHEAR	4	87	77	SZ	NO	NO			Outside of area of expected impacts for SZ
13	127	F. McCallister	2706 BLACKSHEAR	4	85	75	SZ	NO	NO			Outside of area of expected impacts for SZ
14	135	J. Klocke	2914 BLACKSHEAR	2	50	45	SZ	NO	NO			Outside of area of expected impacts for SZ
15	139	R. Moulton	3970 MENENDEZ DR.	4	110	100	MPZ	YES	NO			Well capped under land surface. Not Used
16	140	M. Johnson	1650 E. HAYES ST.	4	120	110	MPZ	YES	YES	11/28/2000		
17	142	L. Fishman	3003 MAGNOLIA AVE	NA	NA	NA	NA	YES	NA	NA		**No well found at location**
18	143	F. Clayborn	1640 E. HAYES ST.	4	125	110	MPZ	YES	NO		2/27/2001	Well exists. Irrigation System Not Used.
19	144	Dr. Willis (Family Practice)	915 E. FAIRFIELD DR	4	120	110	MPZ	YES	YES	5/10/2001		
20	160	B. Hodnelle, Jr.	3966 MENENDEZ	4	117	107	MPZ	YES	NO			
21		E. Davis	4130 MENENDEZ	2	45	40	SZ	NO	NO			Outside of area of expected impacts for SZ
22	194	D. Conkle	3080 BLACKSHEAR AVE	2	68	63	SZ	NO	NO			Outside of area of expected impacts for SZ
23	P9407748	Henry Langhorn	1725 EAST MAURA ST	4	140	120	MPZ	YES	NO			
24	P9503948	Floral Tree Gardens	3601 NORTH DAVIS HWY.	4	115	100	MPZ	YES	NO			
25	T8301727	Fred Levin	3600 MENENDEZ	2	35	30	SZ	NO	NO			Outside of area of expected impacts for SZ
26	T8402575	W.L. Glaze	2675 N. 17TH AVENUE	4	140	120	MPZ	RETURNED	NO			
27	T8403811	Mrs. Dorothy Bearman	1501 GAMARA ROAD	4	110	100	MPZ	YES	NO			
28	T8707396	Richard and Sarah Sanchez	1221 DURNFORD PLACE	4	140	130	MPZ	YES	YES	3/1/2001		
29	T8800778	William C. Baker	1250 DRIFTWOOD DRIVE	4	110	90	MPZ	YES	NO			

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Agrico Site
Pensacola, Florida

ID	PERMIT	NAME	STREET	DIAMETER (INCHES)	DEPTH FT. BLS	CASING FT. BLS	AQUIFER	ABANDONMENT OFFER LETTER SENT	IRRIGATION WELL SAMPLED	DATE SAMPLED	WELL ABANDONED	REMARKS
30	T8905178	Leroy Gamlin	1005 TUNIS STREET	4	116	106	MPZ	YES	NO			
31	T9005951	Joseph Bores	4100 MENENDEZ DRIVE	4	130	120	MPZ	YES	YES	11/28/2000		
32	T9103343	Charles R. Earnest	1900 EAST LEONARD ST.	4	151	121	MPZ	YES	YES	11/28/2000		Well Resampled 5-10-01 to confirm PCE detection
33	T9104961	Dr. Peter C. Delevett	1660 TEXAR DRIVE	2	84	74	SZ	NO	NO			
34	T9104962	Paul Williams	800 E. BAARS ST	4	120	60	MPZ	YES	NO			808 E. Baars sharing well at 800 E. Baars
35	T9206908	John C. Sowers	3090 BLACKSHEAR AVE	2	90	80	SZ	NO	NO			Outside of area of expected impacts for SZ
36	T9304906	J.E. Boatwright Jr.	2575 PARADISE POINT DR	4	120	100	MPZ	YES	YES	3/1/2001		
37	T9701332	Elisabeth Holmes	1781 E. LEONARD ST.	2	UNK	UNK	UNK	YES	NO			
38	T9800088	James T. Baer	1775 EAST TEXAR DR	4	UNK	UNK	UNK	YES	YES	11/29/2000		
39	P9405922	Randy Head	2015 E. Maura St	NA			NA	YES	NA			**No well found at location**
40	158	N. Kinder	1227 BARCIA DR.	UNK	UNK	UNK	UNK	YES	NO			
41	162	W. Veasie	1271 DRIFTWOOD DR.	4	96	73	SZ	NO	NO			Outside of area of expected impacts for SZ
42	171	D. Tringas	2621 PARADISE POINT	UNK	UNK	UNK	UNK	YES	YES	3/1/2001		
43	172	B. Samples	1009 EAST TUNIS	UNK	UNK	UNK	UNK	YES	YES	11/28/2000		
44	178	C. Davis	1555 EAST CROSS ST.	2	UNK	UNK	UNK	YES	NO			
45		Moss & Bessie Wilson	3510 N. 9TH AVE	NA	NA	NA	NA	NO	NA			**No well found at location**
46		John & Priscilla Snyder	2912 BLACKSHEAR AVE	UNK	UNK	UNK	UNK	YES	NO			
47		David & Jean Mayo	3030 BLACKSHEAR AVE	UNK	UNK	UNK	UNK	YES	YES	3/1/2001		
48		Neroy & Lois Anderson	1301 E FISHER ST	UNK	UNK	UNK	UNK	YES	NO			
49		Jude & Nancy White	1710 E CROSS ST	4	140		UNK	YES	YES	8/25/1999		Results in the First annual report OU-2 (2/2000)
50		Mr. Glen McDonald	2860 BLACKSHEAR AVE	UNK	UNK	UNK	UNK	RETURNED	NO			
51		John & Sue Woodward	2710 BLACKSHEAR AVE	4	100	90	MPZ	YES	YES	3/1/2001		
52	159	Amos & Clementine Prevatt	2712 BLACKSHEAR AVE	2	55	45	SZ	NO	NO			Outside of area of expected impacts for SZ
53	80	Howard & Joyce Rein	2101 E CROSS ST	4	130	120	MPZ	YES	YES	11/28/2001		
54		Diocese of Pensacola	1231 DURNFORD PL	UNK	UNK	UNK	UNK	YES	YES	11/28/2001		Bishop's Residence
55		Larry & Catherine Parks	1210 DURNFORD PL	4	145	130	MPZ	YES	NO		2/27/2001	

TABLE 7
IRRIGATION WELL INFORMATION

Agrico Site
Pensacola, Florida

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56		Dennis & Betty Peters	3990 MENENDEZ DR	4	78	65	SZ	NO	NO			Outside of area of expected impacts for SZ
57		Jack & Carolyn Fleming	4010 MENENDEZ DR	UNK	UNK	UNK	UNK	YES	YES	11/28/2000		
58		Richard & Page Ciordia	4020 MENENDEZ DR	4	92	82	SZ	NO	NO			Outside of area of expected impacts for SZ
59		Garrett & Joyce Boyd	1261 STOW AVE	UNK	UNK	UNK	UNK	YES	NO			
60		Gene Schmidt	4141 MENENDEZ DR	4	115	100	MPZ	YES	YES	11/29/2000		
62		C.E. Davis	808 BAARS ST.	UNK	UNK	UNK	UNK	YES	YES	3/13/2001		
63	P200104-707	Escambia County Park Service	CARRIE MILLER PARK	4	90	70	SZ	NO	NO			Downgradient of FDEP Kaiser Site; drilled after moratory initiated.

Notes:
Permit = Northwest Florida Water Management District Permit Number
Aquifer = SZ = Surficial zone of Sand-and-Gravel Aquifer; MPZ = Main producing zone of Sand-and-Gravel Aquifer;
Unknown = No well construction information ; UNK= Data Unknown
NA = Not Applicable
ft. bls = feet below land surface
Data from the NWFWMD onlin mapping application : http://webapub.sjrwmd.com/agws10/nwwmdpermit/
No new wells found during the 2020 data query

SUMMARY	TOTAL
NUMBER OF NOTIFICATIONS OF VOLUNTARY ABANDONMENT OFFER	41
NUMBER OF LOCATIONS WHERE SURFICIAL ZONE IRRIGATION WELLS EXIST BUT NO POTENTIAL FOR IMPACTS BY AGRICO-RELATED CONSTITUENTS	17
WRONG INFORMATION - NO WELL PRESENT AT LOCATION	1
NUMBER OF ADDITIONAL IRRIGATION WELLS IDENTIFIED (1 additional well identified at Holy Cross Cemetery)	1
TOTAL NUMBER OF IRRIGATION WELLS IDENTIFIED	60
TOTAL NUMBER OF WELLS ABANDONED.	2
NUMBER OF WELLS SAMPLED.	21

TABLE 8
COMPARISON OF COC RESULTS AT GROUNDWATER MONITORING LOCATIONS FOR SURFICIAL ZONE AND MAIN PRODUCING ZONE

Agrico Site
Pensacola, Florida

Well ID	Date	Fluoride (mg/L)	Arsenic (mg/L)	Lead (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate-N (mg/L)	Radium 226 (pCi/L)	Radium 228 (pCi/L)	Combined Radium 226 + 228 (pCi/L)
PERFORMANCE STANDARD		4	0.01 [1]	0.015	250	250	10	--	--	5
Surficial Zone										
ACB-31S [2]	5/9/1997	< 0.2	< 0.01	< 0.005	NA	NA	NA	NA	NA	NA
	11/10/1997	<0.2	<0.010	<0.0050	NA	NA	NA	NA	NA	NA
	5/4/1998	< 0.2	< 0.01	< 0.005	NA	NA	NA	NA	NA	NA
	11/23/1998	< 0.2	< 0.01	< 0.005	NA	NA	NA	NA	NA	NA
	5/25/1999	<0.2	<0.01	<0,005	NA	NA	NA	NA	NA	NA
	11/17/1999	<0.2	<0.010	<0.0050	NA	NA	NA	NA	NA	NA
	5/15/2000	<0.2	<0.010	<0.0050	NA	NA	NA	NA	NA	NA
	11/14/2000	< 0.2	< 0.01	< 0.005	NA	NA	NA	NA	NA	NA
	5/9/2001	< 0.2	< 0.01	< 0.005	NA	NA	NA	NA	NA	NA
	11/15/2001	< 0.2	< 0.01	< 0.005	NA	NA	NA	NA	NA	NA
	5/15/2002	< 0.2	< 0.01	< 0.005	NA	NA	NA	NA	NA	NA
	11/19/2002	< 0.2	< 0.01	< 0.005	NA	NA	NA	NA	NA	NA
	5/7/2003	< 0.2	< 0.01	< 0.005	NA	NA	NA	NA	NA	NA
	1/13/2004	< 0.2 U	< 0.01 U	< 0.005 U	4.9	50	3.4 J	0.67 J+/- 0.21	5.08 +/- 0.92	**5.8**
	5/11/2004	< 0.2	< 0.01	< 0.005	NA	NA	NA	NA	NA	NA
	11/9/2004	< 0.2	< 0.01	< 0.005	NA	NA	NA	NA	NA	NA
	5/10/2005	0.2	0.01	0.005	NA	NA	NA	NA	NA	NA
	11/8/2005	< 0.2 U	< 0.01 U	< 0.005 U	NA	NA	NA	NA	NA	NA
	5/15/2006	<0.2 U	< 0.01 U	< 0.005 U	NA	NA	NA	NA	NA	NA
	11/14/2006	< 0.2 U	< 0.01 U	< 0.005 U	NA	NA	NA	NA	NA	NA
	5/16/2007	< 0.1 U	< 0.01 U	< 0.005 U	NA	NA	NA	NA	NA	NA
	11/15/2007	< 0.2 U	< 0.01 U	< 0.005 U	7.9	50	4.8	0.829 +/- 0.16	5.25 +/- 0.61	**6.08**
	5/15/2008	< 0.2 U	< 0.01 U	< 0.005 U	NA	NA	NA	NA	NA	NA
	11/13/2008	< 0.2 U	< 0.01 U	< 0.005 U	5.1	51	6.5	0.68 +/- 0.16	6.59 +/- 0.63	**7.27**
	11/19/2009	< 0.1 U	< 0.01 U	NA	5.3	44	4.9	0.708 +/- 0.18	5.58 +/- 0.55	**6.29**
	11/16/2010	<0.10	NA	NA	3.2	43	6.8	0.611 +/- 0.21	4.35 +/- 0.71	4.96
	11/8/2011	<0.10	NA	NA	5.5	52	3.4	0.498 +/- 0.18	4.49 +/- 0.93	4.99
	11/6/2012	<0.10	NA	NA	3.5	39	1.9	0.474 +/- 0.19	4.99 +/- 0.81	**5.46**
	11/5/2013	<0.10	NA	NA	3.1	36	2.4	0.184 +/- 0.17	4.15 +/- 0.74	4.33
	11/12/2014	<0.10	NA	NA	2.1	37	2.4	0.43 +/- 0.17	4.59 +/- 0.79	**5.02**
	11/18/2015	<0.032	NA	NA	2.6	38	1.4	<0.292 +/- 0.20	3.28 +/- 0.68	3.57
	11/8/2016	<0.10	NA	NA	1.9	35	1.9	0.464 +/- 0.25	3.04 +/- 0.57	3.5
	11/7/2017	<0.10	NA	NA	2.1	29	1.7	0.228 +/- 0.17	2.83 +/- 0.58	3.06
	11/6/2018	<0.10	NA	NA	2.6	21	1.2	0.252 +/- 0.109	2.58 +/- 0.468	2.83
	11/12/2019	0.11	NA	NA	4.8	120	3.9	0.521 +/- 0.147	2.72 +/- 0.564	3.24
	11/10/2020	<0.10	NA	NA	4.4 J	17 J	1.1	< 0.197 +/- 0.179	1.55 +/- 0.372	1.75
	11/4/2021	0.19	NA	NA	1.4	2.4	0.20	< - 0.00405 +/- 0.0531	0.459 +/- 0.241	0.45
	11/8/2022	0.13	NA	NA	4.8	37 F1	<0.050 F1	0.317 +/- 0.143	3.57 +/- 0.736	3.89

TABLE 8
COMPARISON OF COC RESULTS AT GROUNDWATER MONITORING LOCATIONS FOR SURFICIAL ZONE AND MAIN PRODUCING ZONE

Agrico Site
Pensacola, Florida

Well ID	Date	Fluoride (mg/L)	Arsenic (mg/L)	Lead (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate-N (mg/L)	Radium 226 (pCi/L)	Radium 228 (pCi/L)	Combined Radium 226 + 228 (pCi/L)
PERFORMANCE STANDARD		4	0.01 [1]	0.015	250	250	10	--	--	5
Surficial Zone										
AC-2S	4/15/1987	16	0.010	NA	7.4	143	NA	NA	NA	NA
	10/1/1990	63	0.74	<0.005	18	260	12	NA	NA	NA
	2/4/1992	94	0.164	< 0.005	20	290	15	0.4 +/- 0.10	1.2 +/- 1	1.6
	9/28/1997	130	0.058	NA	10	150	9	< 0.6 +/- 0.03	1.7 +/- 0.48	2.3
	11/17/1999	98	0.029	NA	7	57	5	< 1. +/- 0.94	< 1.5 +/- 0.90	2.5
	11/21/2000	150	0.048	NA	6.8	48	5.6	0.5 +/- 0.20	1.9 +/- 1.50	2.4
	11/15/2001	190	0.036	NA	6	23	3.8	0.1 +/- 0.07	2.8 +/- 1	2.9
	11/26/2002	210	0.042	NA	5.7	22	3.6	0.1 +/- 0.07	0. +/- 0.60	0.1
	1/23/2004	170	0.046	< 0.005 U	5.7	15	3.5	< 0.25 U+/- 0.17	< 1.1 U+/- 0.66	0.79
	11/17/2004	100	0.027	NA	7.1	< 5.	3	0.134 +/- 0.08	0.286 +/- 0.31	0.420
	11/15/2005	73	0.021	NA	8.8	59	3.9	0.103 J+/- 0.0690	0.649 J+/- 0.34	0.752
	11/28/2006	85	0.029	NA	9.1	69	4	0.032 +/- 0.0750	-0.382 +/- 0.19	-0.35
	11/21/2007	50	0.016	NA	5.3	< 5. U	1.9	0.041 +/- 0.0790	0.0402 +/- 0.13	0.081
	11/19/2008	54	0.02	< 0.005 U	7.6	< 5. U	3.2	0.0442 +/- 0.0860	-0.0882 +/- 0.21	-0.0440
	11/18/2009	44	0.017	NA	4.9	31	2.7	0.191 +/- 0.11	0.0314 +/- 0.19	0.222
	11/29/2010	48	0.024	NA	6.1	44	3.4	0.0772 +/- 0.082	0.449 +/- 0.26	0.526
	11/16/2011	68	0.024	NA	7.5	54	6.2	0.168 +/- 0.13	0.0656 +/- 0.27	0.234
	11/14/2012	43	0.016	NA	4.3	62	4.6	0.0957 +/- 0.16	0.118 +/- 0.24	0.214
	11/12/2013	36	0.016	NA	3.8	59	3.3	0.0439 +/- 0.13	0.273 +/- 0.27	0.317
	11/12/2014	34	0.02	NA	4.2	73	3.1	0.0951 +/- 0.10	0.309 +/- 0.40	0.404
	11/18/2015	33	0.027	NA	5.1	100	3.2	0.311 J+/- 0.17	<0.472 U+/- 0.30	0.731
	11/9/2016	19	0.016	NA	3.6	61	3.2	0.0622 +/- 0.19	0.813 +/- 0.30	0.875
	11/7/2017	20	0.013	NA	4.2	75	3.4	0.205 +/- 0.19	0.757 +/- 0.32	0.962
	11/6/2018	23	0.014	NA	4.1	73	2.8	0.193 +/- 0.102	0.424 +/- 0.238	0.617
	11/12/2019	29	0.020	NA	3.8	80	2.6	< 0.104 +/- 0.0786	< 0.301 +/- 0.334	0.405
	11/10/2020	29 J	0.012	NA	3.5 J	68 J	1.7	< 0.123 +/- 0.178	0.406 +/- 0.213	0.529
	11/2/2021	22	< 0.010	NA	2.6	47	1.4	< 0.124 +/- 0.107	0.611 +/- 0.272	0.735
	11/9/2022	37	0.021	NA	3.9	87	2.3	0.134 +/- 0.114	0.953 +/- 0.434	1.087

TABLE 8
COMPARISON OF COC RESULTS AT GROUNDWATER MONITORING LOCATIONS FOR SURFICIAL ZONE AND MAIN PRODUCING ZONE

Agrico Site
Pensacola, Florida

Well ID	Date	Fluoride (mg/L)	Arsenic (mg/L)	Lead (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate-N (mg/L)	Radium 226 (pCi/L)	Radium 228 (pCi/L)	Combined Radium 226 + 228 (pCi/L)
PERFORMANCE STANDARD		4	0.01 [1]	0.015	250	250	10	--	--	5
Main Producing Zone										
AC-2D	4/15/1987	**5.1**	<0.004	NA	14.7	22	3.37	NA	NA	NA
	10/1/1990	**5.1**	<0.01	<0.005	15	10	3.5	NA	NA	NA
	2/4/1992	**5.2**	< 0.01	0.0057	16	7.4	3.5	2.8 +/- 0.30	7. +/- 1.30	**9.8**
	9/30/1997	2.9	< 0.01	NA	12	26	5.6	0.6	< 1. +/- 0.45	1.6
	11/17/1999	3.5	< 0.01	NA	11	15	3.6	< 1. +/- 0.49	< 1.5 +/- 0.83	2.5
	11/21/2000	3	< 0.01	NA	9.8	19	4.4	1. +/- 0.20	2.7 +/- 0.90	3.7
	11/15/2001	3	< 0.01	NA	9.4	17	3.5	1. +/- 0.20	2.5 +/- 1	3.5
	11/26/2002	3.2	< 0.01	NA	9.1	18	2.5	1.1 +/- 0.20	2. +/- 0.80	3.1
	1/23/2004	2.9	< 0.01 U	< 0.005 U	9	13	2.5	1.05 +/- 0.25	1.54 +/- 0.71	2.59
	11/17/2004	2.7	< 0.01	NA	9.1	14	2.6	1.09 +/- 0.17	1.42 +/- 0.37	2.51
	11/14/2005	2.3	< 0.01 U	NA	9.2	16	2.8	0.983 J+/- 0.27	1.85 +/- 0.51	2.83
	11/28/2006	2.2	< 0.01 U	NA	8.2	15	2.5	0.896 +/- 0.14	1.16 +/- 0.28	2.06
	11/21/2007	2.5	< 0.01 U	NA	7.8	16	3.3	0.843 +/- 0.17	1.22 +/- 0.28	2.06
	11/19/2008	2	< 0.01 U	< 0.005 U	8.8	13	2.5	0.994 +/- 0.16	1.17 +/- 0.31	2.16
	11/18/2009	2	< 0.01 U	NA	8.4	15	2.3	1.2 +/- 0.18	1.7 +/- 0.34	2.9
	11/29/2010	2.3	NA	NA	8.3	16	2.6	1.31 +/- 0.39	1.59 +/- 0.39	2.90
	11/16/2011	2.3	NA	NA	7.6	17	2	1.06 +/- 0.22	1.71 +/- 0.42	2.77
	11/14/2012	2.2	NA	NA	6.9	17	2.1	0.744 +/- 0.27	1.94 +/- 0.54	2.68
	11/12/2013	2.3	NA	NA	7.0	17	5.3	0.887 +/- 0.27	1.43 +/- 0.41	2.32
	11/12/2014	2.2	NA	NA	6.8	16	2	0.911 +/- 0.25	1.31 +/- 0.45	2.22
	11/18/2015	2.1	NA	NA	6.4	18	1.8	1.24 +/- 0.42	1.84 +/- 0.48	3.08
	11/9/2016	1.5	NA	NA	6.5	17	1.7	0.661 +/- 0.31	1.92 +/- 0.44	2.58
	11/7/2017	1.8	NA	NA	5.3	18	1.7	1.05 +/- 0.32	2.00 +/- 0.45	3.05
	11/6/2018	2.3	NA	NA	4.6	20	1.6	0.813 +/- 0.210	1.21 +/- 0.307	2.02
	11/13/2019	2.0	NA	NA	5.0	19	1.4	1.30 +/- 0.230	1.59 +/- 0.421	2.89
	11/11/2020	2.5 J	NA	NA	4.8 J	21 J	1.1	1.22 +/- 0.357	0.793 +/- 0.267	2.01
	11/2/2021	2.1	NA	NA	4.9	21	1.1	1.05 +/- 0.259	1.62 +/- 0.432	2.67
	11/8/2022	2.9	NA	NA	4.5	24	<0.050	1.02 +/- 0.237	2.35 +/- 0.578	3.37

TABLE 8
COMPARISON OF COC RESULTS AT GROUNDWATER MONITORING LOCATIONS FOR SURFICIAL ZONE AND MAIN PRODUCING ZONE

Agrico Site
Pensacola, Florida

Well ID	Date	Fluoride (mg/L)	Arsenic (mg/L)	Lead (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate-N (mg/L)	Radium 226 (pCi/L)	Radium 228 (pCi/L)	Combined Radium 226 + 228 (pCi/L)
PERFORMANCE STANDARD		4	0.01 [1]	0.015	250	250	10	--	--	5
Main Producing Zone										
AC-3D	4/15/1987	105	0.041	NA	376	686	52.2	NA	NA	NA
	10/1/1990	75	<0.01	<0.005	150	680	47	NA	NA	NA
	2/5/1992	80	< 0.01	0.0059	270	500	42	8.4 +/- 0.40	12	20.4
	9/28/1997	46	< 0.01	NA	110	460	27	0.81 +/- 0.07	NA	0.81
	11/19/1999	14	< 0.01	NA	19	< 5.	12	< 1. +/- 0.54	2.1	3.1
	11/21/2000	18	< 0.01	NA	32	240	15	1. +/- 0.20	6.5 +/- 1.20	7.5
	11/14/2001	13	< 0.01	NA	22	250	12	0.4 +/- 0.10	5.4 +/- 1.10	5.8
	11/26/2002	46	< 0.01	NA	64	380	16	1.3 +/- 0.20	17.8 +/- 2	19.1
	1/22/2004	34	< 0.01 U	< 0.005 U	48	300	13. J	5.04 +/- 0.77	20.6 +/- 2.50	25.6
	11/17/2004	36	< 0.01	NA	48	310	14	0.934 +/- 0.16	12.3 +/- 1.10	13.2
	11/15/2005	23	< 0.01 U	NA	36	300	12	0.994 J+/- 0.28	18. +/- 2.30	19.0
	11/22/2006	27	< 0.01 U	NA	39	330	12	0.939 +/- 0.27	13.2 +/- 0.89	14.1
	11/21/2007	22	< 0.01 U	NA	24	220	7.8	1.06 +/- 0.22	8.12 +/- 0.56	9.18
	11/13/2008	18	< 0.01 U	< 0.005 U	25	180	8.5	1.22 +/- 0.19	10.9 +/- 0.79	12.1
	11/18/2009	15	< 0.01 U	NA	20	160	6.9	0.951 +/- 0.18	9.9 +/- 0.69	10.1
	11/29/2010	16	NA	NA	22	160	7.8	1.74 +/- 0.44	12.9 +/- 1.8	14.6
	11/15/2011	17	NA	NA	20	130	7.8	1.59 +/- 0.26	12.5 +/- 0.90	14.1
	11/13/2012	16	NA	NA	20	140	7.2	1.38 +/- 0.39	12.7 +/- 1.7	14.1
	11/12/2013	15	NA	NA	16	130	6.1	1.14 +/- 0.36	9.67 +/- 1.3	10.8
	11/11/2014	14	NA	NA	16	230	5.9	0.902 +/- 0.26	11.0 +/- 1.5	11.9
	11/19/2015	13	NA	NA	14	120	4.7	1.42 +/- 0.40	12.1 +/- 1.60	13.52
	11/11/2016	11	NA	NA	15	120	5.4	0.772 +/- 0.29	7.80 +/- 1.2	8.57
	11/8/2017	9.3	NA	NA	9.2	100	4.9	1.07 +/- 0.34	7.72 +/- 1.1	8.79
	11/6/2018	7.6	NA	NA	5.0	81	3.1	1.26 +/- 0.259	4.34 +/- 0.628	5.60
	11/13/2019	9.8	NA	NA	9.8	110	4.5	1.34 +/- 0.242	9.53 +/- 1.16	10.87
	11/10/2020	8.2 J	NA	NA	4.6 J	100 J	3.0	1.36 +/- 0.346	6.01 +/- 0.747	7.37
	11/4/2021	9.5	NA	NA	8.3	150	3.8	0.980 +/- 0.194	8.24 +/- 0.990	9.22
	11/9/2022	5.6	NA	NA	4.6	84	3.6	0.891 +/- 0.223	6.32 +/- 1.07	7.21

TABLE 8
COMPARISON OF COC RESULTS AT GROUNDWATER MONITORING LOCATIONS FOR SURFICIAL ZONE AND MAIN PRODUCING ZONE

Agrico Site
Pensacola, Florida

Well ID	Date	Fluoride (mg/L)	Arsenic (mg/L)	Lead (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate-N (mg/L)	Radium 226 (pCi/L)	Radium 228 (pCi/L)	Combined Radium 226 + 228 (pCi/L)
PERFORMANCE STANDARD		4	0.01 [1]	0.015	250	250	10	--	--	5
Main Producing Zone										
AC-12D	10/1/1990	**24**	<0.01	<0.005	28	**290**	**13**	NA	NA	NA
	4/9/1992	2.6	< 0.01	< 0.005	8.2	39	2.8	NA	NA	NA
	9/27/1997	**8.8**	0.012	NA	20	**320**	**11**	1.5 +/- 0.09	6.9 +/- 0.58	**8.4**
	11/19/1999	0.52	< 0.01	NA	6.4	7.8	2.4	< 1. +/- 0.09	< 1.5 +/- 0.68	2.5
	11/17/2000	**6.7**	< 0.01	NA	15	130	6.8	0.5 +/- 0.10	3.7 +/- 1	4.2
	11/8/2001	1.7	< 0.01	NA	7.3	30	3.7	0.4 +/- 0.20	4.5 +/- 1.10	4.9
	11/22/2002	**11**	0.011	NA	22	**310**	**10**	1.9 +/- 0.30	8.6 +/- 1	**10.5**
	1/28/2004	**10**	0.015	0.0052	20	**280**	**11**	4.13 +/- 0.61	14.2 +/- 1.80	**18.3**
	11/11/2004	**11**	< 0.01	NA	20	**310**	**12**	1.84 +/- 0.22	7.57 +/- 0.59	**9.41**
	11/10/2005	**15**	< 0.01 U	NA	23	**290**	**12**	1.65 +/- 0.40	7.59 +/- 1.10	**9.24**
	11/16/2006	**13**	< 0.01 U	NA	21	**310**	**12**	1.26 +/- 0.18	7.08 +/- 0.65	**8.34**
	11/16/2007	**20**	< 0.01 U	NA	22	**300**	**12**	1.62 +/- 0.21	7.76 +/- 0.60	**9.38**
	11/13/2008	**17**	< 0.01 U	< 0.005 U	23	**310**	**12**	1.73 +/- 0.21	6.75 +/- 0.59	**8.48**
	11/12/2009	**15**	< 0.01 U	NA	22	**280**	**12**	1.57 +/- 0.25	7.7 +/- 0.68	**9.3**
	11/18/2010	**14**	NA	NA	22	**280**	**11**	1.34 +/- 0.38	6.68 +/- 1.3	**8.0**
	11/9/2011	**14**	NA	NA	18	240	**10**	4.80 +/- 0.69	8.43 +/- 0.75	**13.2**
	11/8/2012	**15**	NA	NA	18	**250**	9.6	1.43 +/- 0.39	7.88 +/- 1.1	**9.31**
	11/6/2013	**14**	NA	NA	19	**260**	9.0	1.27 +/- 0.40	8.50 +/- 1.2	**9.77**
	11/20/2014	**10**	NA	NA	16	230	8.6	2.23 +/- 0.55	8.63 +/- 1.2	**10.86**
	11/19/2015	**12**	NA	NA	18	230	8.4	1.3 +/- 0.41	7.2 +/- 1.10	**8.5**
	11/10/2016	**8.1**	NA	NA	19	230	8.5	1.28 +/- 0.43	9.07 +/- 1.3	**10.35**
	11/8/2017	**7.8**	NA	NA	15	180	9.6	1.25 +/- 0.35	5.98 +/- 0.93	**7.23**
	11/7/2018	0.80	NA	NA	11	15	6.9	0.942 +/- 0.219	0.892 +/- 0.280	1.83
	11/18/2019	< 0.10	NA	NA	11	1.5	7.1	0.594 +/- 0.147	1.24 +/- 0.341	1.83
	11/11/2020	**9.1 J**	NA	NA	14 J	150 J	7.9	1.49 +/- 0.361	3.58 +/- 0.522	**5.07**
	11/3/2021	**7.4**	NA	NA	13	150 F1	7.6	1.53 +/- 0.257	4.67 +/- 0.682	**6.20**
	11/9/2022	< 0.10	NA	NA	11	<1.0	6.7	0.957 +/- 0.237	1.81 +/- 0.556	2.77

TABLE 8
COMPARISON OF COC RESULTS AT GROUNDWATER MONITORING LOCATIONS FOR SURFICIAL ZONE AND MAIN PRODUCING ZONE

Agrico Site
Pensacola, Florida

Well ID	Date	Fluoride (mg/L)	Arsenic (mg/L)	Lead (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate-N (mg/L)	Radium 226 (pCi/L)	Radium 228 (pCi/L)	Combined Radium 226 + 228 (pCi/L)
PERFORMANCE STANDARD		4	0.01 [1]	0.015	250	250	10	--	--	5
Main Producing Zone										
AC-13D	10/1/1990	8.6	<0.01	<0.005	16	220	8.3	NA	NA	NA
	2/3/1992	5.3	< 0.01	< 0.005	16	150	8.9	4.7 +/- 0.30	3.6 +/- 1.10	8.3
	9/27/1997	4.9	< 0.01	NA	20	260	12	1.3 +/- 0.09	4.1 +/- 0.59	5.4
	11/16/2000	4.6	< 0.01	NA	19	220	11	2.8 +/- 0.30	5	7.8
	11/8/2001	4.7	< 0.01	NA	17	210	10	1.9 +/- 0.20	3.7 +/- 1.10	5.6
	11/21/2002	6.7	< 0.01	NA	20	250	11	1.3 +/- 0.20	5.7 +/- 0.80	7
	1/16/2004	6.3	< 0.01 U	< 0.005 U	22	230	12	1.67 +/- 0.36	11.1 +/- 1.70	12.77
	11/11/2004	7.8	< 0.01	NA	23	260	12	1.55 +/- 0.19	8.2 +/- 0.64	9.75
	11/10/2005	11	< 0.01 U	NA	25	260	12	2.18 +/- 0.53	8.68 +/- 1.20	10.86
	11/16/2006	14	< 0.01 U	NA	28	290	14	1.55 +/- 0.22	7.83 +/- 0.78	9.38
	11/19/2007	17	< 0.01 U	NA	27	300	18	1.64 +/- 0.23	7.41 +/- 0.67	9.05
	11/11/2008	15	< 0.01 U	< 0.005 U	28	360	13	1.32 +/- 0.21	5.95 +/- 0.59	7.27
	11/12/2009	15	0.011	NA	28	300	14	2.28 +/- 0.31	10.5 +/- 0.95	12.78
	11/18/2010	14	NA	NA	23	290	12	1.45 +/- 0.39	6.84 +/- 1.0	8.29
	11/9/2011	14	NA	NA	26	300	13	1.64 +/- 0.25	8.18 +/- 0.69	9.82
	11/7/2012	15	NA	NA	24	290	12	2.05 +/- 0.54	8.99 +/- 1.3	11.0
	11/6/2013	14	NA	NA	24	310	11	1.98 +/- 0.50	9.60 +/- 1.4	11.6
	11/19/2014	12	NA	NA	21	250	11	1.23 +/- 0.39	8.24 +/- 1.3	9.47
	11/20/2015	9.3	NA	NA	11	160	10	1.51 +/- 0.39	7.5 +/- 1.10	9.01
	11/10/2016	6.8	NA	NA	22	270	11	0.53 +/- 0.24	3.99 + /- 0.68	4.52
	11/8/2017	7.5	NA	NA	19	230	11	1.49 +/- 0.50	5.57 +/- 0.92	7.06
	11/7/2018	6.0	NA	NA	19	250	10	1.50 +/- 0.283	5.58 +/- 0.730	7.08
	11/25/2019	6.8	NA	NA	19	220	8.4	1.27 +/- 0.217	6.94* +/- 0.836	8.21
	11/12/2020	8 J	NA	NA	17 J	280 J	9.6	1.57 +/- 0.381	4.90 +/- 0.665	6.47
	11/3/2021	< 0.10 / 10 [3]	NA	NA	19	220	8.6	1.38 +/- 0.234	5.44 +/- 0.731	6.82
	11/10/2022	4.5	NA	NA	18	200	9.1	1.74 +/- 0.459	5.57 +/- 0.917	7.31

TABLE 8
COMPARISON OF COC RESULTS AT GROUNDWATER MONITORING LOCATIONS FOR SURFICIAL ZONE AND MAIN PRODUCING ZONE

Agrico Site
Pensacola, Florida

Well ID	Date	Fluoride (mg/L)	Arsenic (mg/L)	Lead (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate-N (mg/L)	Radium 226 (pCi/L)	Radium 228 (pCi/L)	Combined Radium 226 + 228 (pCi/L)
PERFORMANCE STANDARD		4	0.01 [1]	0.015	250	250	10	--	--	5
Main Producing Zone										
AC-24D	2/19/1992	**36**	< 0.01	0.005	200	50	1.9	NA	NA	NA
	9/27/1997	**8.5**	< 0.01	NA	31	8.8	1.3	0.63 +/- 0.06	< 1. +/- 0.42	1.63
	1/21/2004	**57**	< 0.01 U	< 0.005 U	180	37	3.7	2.32 +/- 0.47	15.3 +/- 2.20	**17.6**
	11/18/2008	**56**	< 0.01 U	< 0.005 U	200	65	6.8	2.98 +/- 0.28	7.41 +/- 0.62	**10.4**
	11/16/2009	**59**	< 0.01 U	NA	190	79	5.8	2.44 +/- 0.25	6.4 +/- 0.60	**8.8**
	11/23/2010	**77**	NA	NA	190	84	6.4	2.09 +/- 0.50	7.60 +/- 1.1	**9.7**
	11/14/2011	**65**	NA	NA	160	76	6.8	2.96 +/- 0.35	10.0 +/- 0.86	**13.0**
	11/9/2012	**67**	NA	NA	190	78	5.5	1.48 +/- 0.42	10.9 +/- 1.5	**12.4**
	11/7/2013	**68**	NA	NA	170	86	4.5	2.02 +/- 0.53	10.2 +/- 1.4	**12.2**
	11/24/2014	**51**	NA	NA	130	75	4.2	2.12 +/- 0.64	7.14 +/- 1.0	**9.26**
	11/19/2015	**47**	NA	NA	140	77	4.4	1.17 +/- 0.37	7.22 +/- 1	**8.39**
	11/10/2016	**33**	NA	NA	120	70	4.7	0.881 +/- 0.31	4.14 +/- 0.70	**5.02**
	11/8/2017	**45**	NA	NA	96	74	5.0	1.61 +/- 0.47	6.05 +/- 0.90	**7.66**
	11/7/2018	**24**	NA	NA	48	73	4.6	1.56 +/- 0.295	6.71 +/- 0.858	**8.27**
	11/21/2019	**30**	NA	NA	86	59	4.6	1.71 +/- 0.278	6.81 +/- 0.893	**8.52**
	11/12/2020	**45 J**	NA	NA	89 J	71 J	4.6	1.88 +/- 0.381	5.02 +/- 0.673	**6.90**
	11/3/2021	0.47 / **50** [3]	NA	NA	79	77	3.5	1.29 +/- 0.229	4.86 +/- 0.685	**6.15**
	11/10/2022	**27**	NA	NA	36	68	3.9	1.44 +/- 0.402	6.82 +/- 1.03	**8.26**

TABLE 8
COMPARISON OF COC RESULTS AT GROUNDWATER MONITORING LOCATIONS FOR SURFICIAL ZONE AND MAIN PRODUCING ZONE

Agrico Site
Pensacola, Florida

Well ID	Date	Fluoride (mg/L)	Arsenic (mg/L)	Lead (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate-N (mg/L)	Radium 226 (pCi/L)	Radium 228 (pCi/L)	Combined Radium 226 + 228 (pCi/L)
PERFORMANCE STANDARD		4	0.01 [1]	0.015	250	250	10	--	--	5
Main Producing Zone										
AC-25D	2/15/1992	19	NA	<0.0050	120	7.1	11	NA	NA	7.9
	9/24/1997	20	< 0.01	NA	270	44	2.1	2. +/- 0.10	3.5 +/- 0.52	5.5
	11/19/1999	2.6	< 0.01	NA	45	< 5.	1.9	< 1. +/- 0.62	< 1.5 +/- 0.75	2.5
	11/17/2000	3.3	< 0.01	NA	46	13	5.5	0.6 +/- 0.10	0.6 +/- 0.80	1.2
	11/13/2001	2.9	< 0.01	NA	32	9.4	2.3	0.4 +/- 0.10	1.1 +/- 0.80	1.5
	11/21/2002	48	< 0.01	NA	410	80	2	2.9 +/- 0.30	5.1 +/- 0.80	8.0
	1/22/2004	52	< 0.01 U	< 0.005 U	410	65	2.3 J	4.48 +/- 0.72	7.6 +/- 1.20	12
	11/15/2004	57	< 0.01	NA	440	83	2.2	2.46 +/- 0.23	5.6 +/- 0.54	8.1
	11/10/2005	59	< 0.01 U	NA	390	81	3.1	2.31 +/- 0.52	7.73 +/- 1.20	10.0
	11/20/2006	77	< 0.01 U	NA	430	80	3.1	2.5 +/- 0.35	4.53 +/- 0.55	7.03
	11/20/2007	90	< 0.01 U	NA	390	80	3.7	1.85 +/- 0.29	4.08 +/- 0.49	5.93
	11/18/2008	71	< 0.01 U	< 0.005 U	480	77	3.7	2.2 +/- 0.25	3.98 +/- 0.51	6.18
	11/17/2009	77	< 0.01 U	NA	420	88	3.5	1.84 +/- 0.24	5.33 +/- 0.55	7.17
	11/23/2010	110	NA	NA	440	89	4.3	2.29 +/- 0.62	4.47 +/- 0.73	6.76
	11/15/2011	100	NA	NA	390	78	4.7	2.31 +/- 0.29	5.0 +/- 0.56	7.3
	11/14/2012	100	NA	NA	370	94	4.2	2.38 +/- 0.55	5.50 +/- 0.85	7.88
	11/12/2013	96	NA	NA	370	80	4.4	2.64 +/- 0.75	5.06 +/- 0.83	7.70
	11/20/2014	76	NA	NA	320	91	3.7	1.7 +/- 0.52	5.27 +/- 0.88	6.97
	11/20/2015	91	NA	NA	360	120	4.5	2.09 +/- 0.54	6.05 +/- 0.97	8.14
	11/9/2016	68	NA	NA	380	87	4.4	1.55 +/- 0.46	4.36 +/- 0.77	5.91
	11/9/2017	93	NA	NA	300	95	5.1	1.93 +/- 0.50	4.92 +/- 0.77	6.85
	11/7/2018	68	NA	NA	230	100	5.0	1.64 +/- 0.301	4.65 +/- 0.663	6.29
	11/20/2019	40	NA	NA	220	81	5.3	1.64 +/- 0.259	5.36 +/- 0.737	7.00
	11/12/2020	99 J	NA	NA	280 J	110 J	4.7	1.70 +/- 0.403	3.72 +/- 0.559	5.42
	11/2/2021	0.45 / 130 [3]	NA	NA	260	120	3.7	1.71 +/- 0.293	4.59 +/- 0.655	6.30
	11/10/2022	59	NA	NA	76	120	5.4 H	1.33 +/- 0.390	4.91 +/- 0.867	6.24

TABLE 8
COMPARISON OF COC RESULTS AT GROUNDWATER MONITORING LOCATIONS FOR SURFICIAL ZONE AND MAIN PRODUCING ZONE

Agrico Site
Pensacola, Florida

Well ID	Date	Fluoride (mg/L)	Arsenic (mg/L)	Lead (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate-N (mg/L)	Radium 226 (pCi/L)	Radium 228 (pCi/L)	Combined Radium 226 + 228 (pCi/L)
PERFORMANCE STANDARD		4	0.01 [1]	0.015	250	250	10	--	--	5
Main Producing Zone										
AC-29D	9/27/1997	65	< 0.01	NA	180	340	20	0.66 +/- 0.05	9.9 +/- 0.65	10.56
	11/19/1999	65	< 0.01	NA	110	< 5.	14	2.3	8.1	10.4
	11/21/2000	45	< 0.01	NA	300	260	14	1.3 +/- 0.10	11.4 +/- 1.10	12.7
	11/13/2001	48	< 0.01	NA	100	280	13	1.4 +/- 0.20	14. +/- 1.60	15
	11/25/2002	59	< 0.01	NA	100	340	16	1.7 +/- 0.20	16.5 +/- 1.70	18
	1/23/2004	52	< 0.01 U	< 0.005 U	93	310	16	3.42 +/- 0.55	21.9 +/- 2.50	25.3
	11/12/2004	45	< 0.01 U	NA	84	290	14	1.52 +/- 0.19	17.7 +/- 0.96	19.2
	11/16/2005	30	< 0.01 U	NA	58	220	9.8	1.53 +/- 0.37	21. +/- 2.70	22.5
	11/17/2006	34	< 0.01 U	NA	67	200	12	1.48 +/- 0.18	11.9 +/- 0.90	13.4
	11/20/2007	42	< 0.01 U	NA	63	220	12	1.45 +/- 0.26	11.7 +/- 0.77	13.2
	11/18/2008	31	< 0.01 U	< 0.005 U	65	200	11	1.54 +/- 0.20	10.8 +/- 0.76	12.3
	11/17/2009	30	< 0.01 U	NA	61	220	9.5	1.54 +/- 0.21	13.8 +/- 0.83	15.3
	11/19/2010	39	NA	NA	62	240	11	1.64 +/- 0.37	14.9 +/- 1.9	16.5
	11/11/2011	41	NA	NA	54	220	12	1.76 +/- 0.27	13.6 +/- 0.81	15.4
	11/13/2012	35	NA	NA	52	230	10	1.08 +/- 0.30	15.9 +/- 2/1	17.0
	11/7/2013	36	NA	NA	45	220	8.1	0.836 +/- 0.27	14.8 +/- 2.0	15.6
	11/17/2014	30	NA	NA	39	74	8.3	1.53 +/- 0.47	15.2 +/- 2.0	16.7
	11/19/2015	30	NA	NA	42	200	7.5	1.49 +/- 0.44	14.5 +/- 1.90	15.99
	11/11/2016	22	NA	NA	39	170	8.2	1.31 +/- 0.48	13.5 +/- 1.7	14.81
	11/8/2017	25	NA	NA	32	170	8.2	1.39 +/- 0.35	13.6 +/- 1.8	14.99
	11/7/2018	20	NA	NA	30	170	6.3	1.60 +/- 0.304	10.9 +/- 1.22	12.50
	11/19/2019	18	NA	NA	27	150	6.6	1.65 +/- 0.263	13.2 +/- 1.47	14.85
	11/11/2020	29 J	NA	NA	25 J	170 J	6.8	1.84 +/- 0.410	11.3 +/- 1.25	13.14
	11/3/2021	18	NA	NA	27	190	5.9	1.17 +/- 0.213	11.9 +/- 1.34	13.07
	11/10/2022	29	NA	NA	28	180	5.4	1.69 +/- 0.454	12.2 +/- 1.57	13.89

TABLE 8
COMPARISON OF COC RESULTS AT GROUNDWATER MONITORING LOCATIONS FOR SURFICIAL ZONE AND MAIN PRODUCING ZONE

Agrico Site
Pensacola, Florida

Well ID	Date	Fluoride (mg/L)	Arsenic (mg/L)	Lead (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate-N (mg/L)	Radium 226 (pCi/L)	Radium 228 (pCi/L)	Combined Radium 226 + 228 (pCi/L)
PERFORMANCE STANDARD		4	0.01 [1]	0.015	250	250	10	--	--	5
Main Producing Zone										
AC-35D	11/19/1999	23	< 0.01	NA	160	130	3.1	< 1. +/- 0.53	< 1.5 +/- 0.95	2.5
	11/16/2000	150	< 0.01	NA	120	220	12	1.5 +/- 0.20	5. +/- 1.20	6.5
	11/8/2001	160	0.012	NA	520	220	13	1.9 +/- 0.20	7.2 +/- 1.40	9.1
	11/21/2002	170	< 0.01	NA	550	230	11	2. +/- 0.30	8.5 +/- 1	10.5
	1/15/2004	160	0.015	< 0.005 U	530	210	13	4.58 +/- 0.69	12.9 +/- 1.60	17.5
	11/15/2004	170	< 0.01	NA	520	260	14	2.22 +/- 0.21	9.37 +/- 0.69	11.6
	11/16/2005	150	< 0.01 U	NA	430	260	12	2.01 +/- 0.50	14.4 +/- 1.90	16.4
	11/20/2006	160	< 0.01 U	NA	460	270	12	1.83 +/- 0.31	9.26 +/- 0.77	11.1
	11/20/2007	150	< 0.01 U	NA	420	190	12	2.01 +/- 0.29	5.8 +/- 0.53	7.81
	11/19/2008	120	0.01	< 0.005 U	460	190	11	1.78 +/- 0.20	5.29 +/- 0.57	7.07
	11/19/2009	120	< 0.01 U	NA	430	200	9.3	2.33 +/- 0.28	8.44 +/- 0.68	10.8
	11/23/2010	180	NA	NA	580	240	13	2.52 +/- 0.64	8.83 +/- 1.2	11.4
	11/16/2011	130	NA	NA	370	170	11	1.71 +/- 0.28	5.94 +/- 0.61	7.65
	11/15/2012	130	NA	NA	350	200	9.6	1.91 +/- 0.51	6.45 +/- 0.98	8.36
	11/13/2013	120	NA	NA	360	190	9.5	2.01 +/- 0.54	7.69 +/- 1.1	9.70
	11/24/2014	110	NA	NA	300	190	9.6	2.59 +/- 0.64	7.28 +/- 1.1	9.87
	11/20/2015	110	NA	NA	340	140	9.1	1.8 +/- 0.49	8.7 +/- 1.30	10.5
	11/9/2016	76	NA	NA	310	160	8.8	1.6 +/- 0.53	4.76 +/- 0.85	6.4
	11/9/2017	120	NA	NA	280	170	8.8	1.92 +/- 0.54	5.42 +/- 0.84	7.34
	11/7/2018	75	NA	NA	270	170	7.6	1.97 +/- 0.337	5.56 +/- 0.734	7.53
	11/18/2019	40	NA	NA	240	150	8.2	1.58 +/- 0.261	6.67 +/- 0.860	8.25
	11/12/2020	60 J	NA	NA	230 J	190 J	8.2	2.04 +/- 0.426	4.74 +/- 0.631	6.78
	11/2/2021	0.59 / 120 [3]	NA	NA	220	210	7.0	1.61 +/- 0.283	4.33 +/- 0.703	5.94
	11/10/2022	72	NA	NA	200	200	8.1 H	1.39 +/- 0.433	6.86 +/- 1.04	8.25

TABLE 8
COMPARISON OF COC RESULTS AT GROUNDWATER MONITORING LOCATIONS FOR SURFICIAL ZONE AND MAIN PRODUCING ZONE

Agrico Site
Pensacola, Florida

Notes:

(1) Performance standard for arsenic reduced from 0.05 mg/L to 0.01 mg/L in 2006.

(2) Monitoring well ACB-31S was sampled semiannually from May 1997 through May 2008 and samples analyzed for fluoride, arsenic, and lead only (OU-1 COCs); Beginning in November 2007, the well was incorporated into OU-2 network with samples analyzed for fluoride, arsenic, lead, chloride, sulfate, nitrate, radium 226, and radium 228.
(3) Fluoride results reported by SM4500 (approved Site method) were questionable due to laboratory equipment malfunction. Samples were rerun using Method 300.0 and both results are shown.

BOLD = exceeds constituent performance standard

Highlight = Below performance standard.

<, U = Analyzed for but not detected above limiting criteria

COC = constituent of concern

F1 = The MS and/or MSD recovery is outside acceptance limits

H = Sample was reanalyzed outside recommended analytical holdtime criteria

J = Estimated Value

mg/L = milligrams per Liter

pCi/L = picocuries per Liter

NA = Not Analyzed

NS = Not Sampled

Radium 226 + 228 Analytical Laboratories:

1987 State of Florida Department of Environmental Regulation Laboratory

1992 Savannah Laboratories - Contract Lab Unknown

1997 Savannah Laboratories - Contract Lab Unknown

1999 General Engineering Laboratory - Charleston, SC

2000 through 2002 KNL, Tampa, FL

1/2004 STL - St. Louis

11/2004 through 2017 - STL/TA Richland

2018 and 2022 - Eurofins St. Louis

TABLE 9
FLUORIDE RESULTS AT LONG-TERM SURFACE WATER MONITORING LOCATIONS

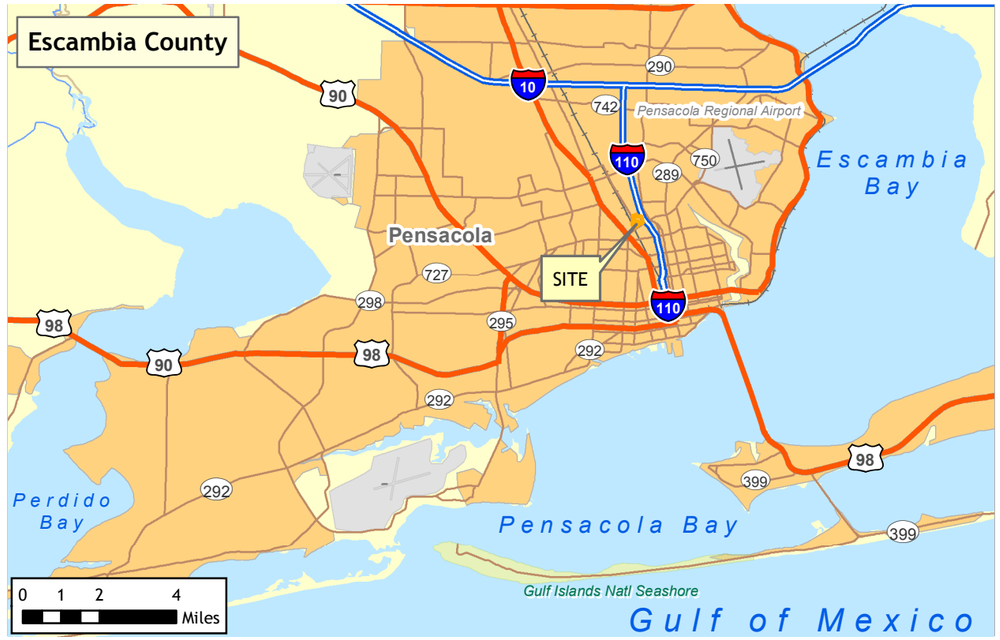
Agrico Site
Pensacola, Florida

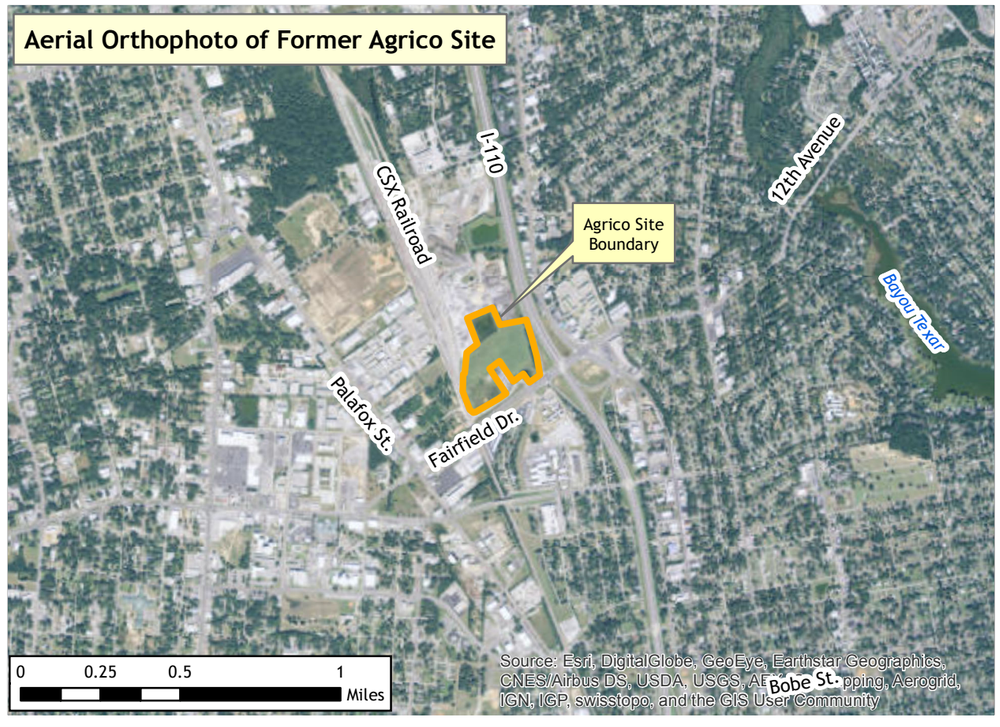
Sample Location ID	Date	Fluoride (mg/L) Class III Marine SWS = 5 mg/L*
BT-02 Bayou Texar (Brackish Water)	08/2008	0.56
	11/2010	0.83
	11/2011	0.77
	11/2012	0.89
	11/2013	0.94
	11/2014	1.30
	11/2015	1.50
	11/2016	0.52
	11/2017	0.68
	11/2018*	1.40
	11/2019	0.63
	11/2020	0.72
	11/2021	0.59
	11/2022	1.20
BT-107 Bayou Texar (Brackish Water)	05/2009	0.58
	11/2010	0.89
	11/2011	0.81
	11/2012	1.30
	11/2013	0.99
	11/2014	1.30
	11/2015	1.30
	11/2016	0.52
	11/2017	0.55
	11/2018	2.50
	11/2019	0.57
	11/2020	1.30
	11/2021	0.72
	11/2022	0.58
BT-127 Bayou Texar (Brackish Water)	05/2009	0.60
	11/2010	1.00
	11/2011	0.81
	11/2012	1.20
	11/2013	1.20
	11/2014	1.30
	11/2015	0.46
	11/2016	0.49
	11/2017	0.93
	11/2018	2.30
	11/2019	0.73
	11/2020	0.90
	11/2021	1.10
	11/2022	0.90

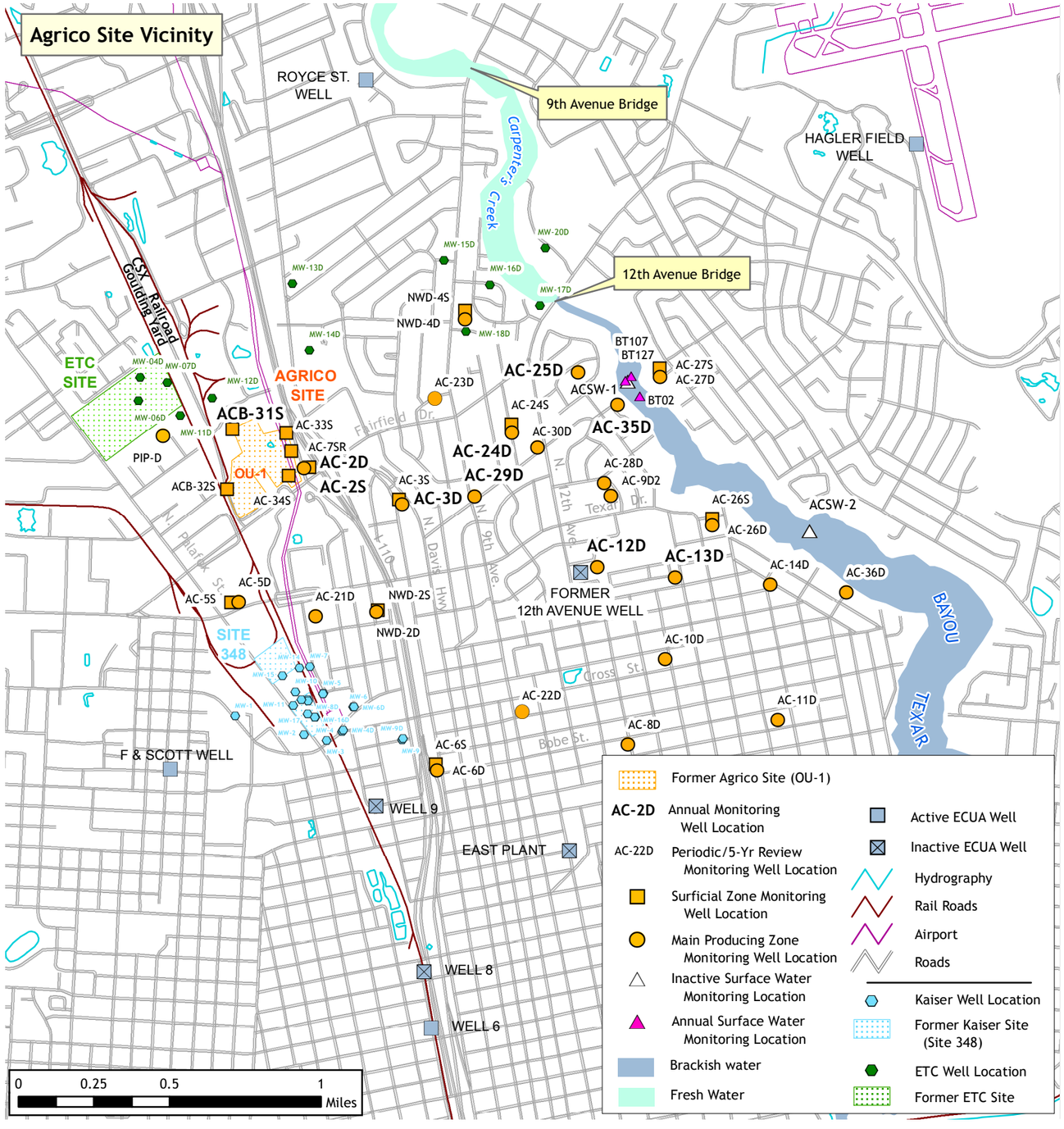
Notes:
Stations added in 2010; analyzed for fluoride only.
Chapter 62-302, Class III Marine Surface Water Standard for Fluoride is 5 mg/L.

COC = constituent of concern
mg/L = milligrams per Liter
NA = Not Analyzed
*Listed as BT-102 on lab report and chain-of-custudy

FIGURES







OU-1 and OU-2
AGRICO SITE
PENSACOLA, FLORIDA

AECOM

Base Map Data Provided By:
Florida Department of Environmental Protection
and Northwest Florida Water Management District
Aerial Source: ESRI

N W E S

SITE LOCATION AND SITE-WIDE MONITORING LOCATIONS OU-1 AND OU-2

FIGURE 1

Candace_Beauvais - Tallahassee - 3/4/2016

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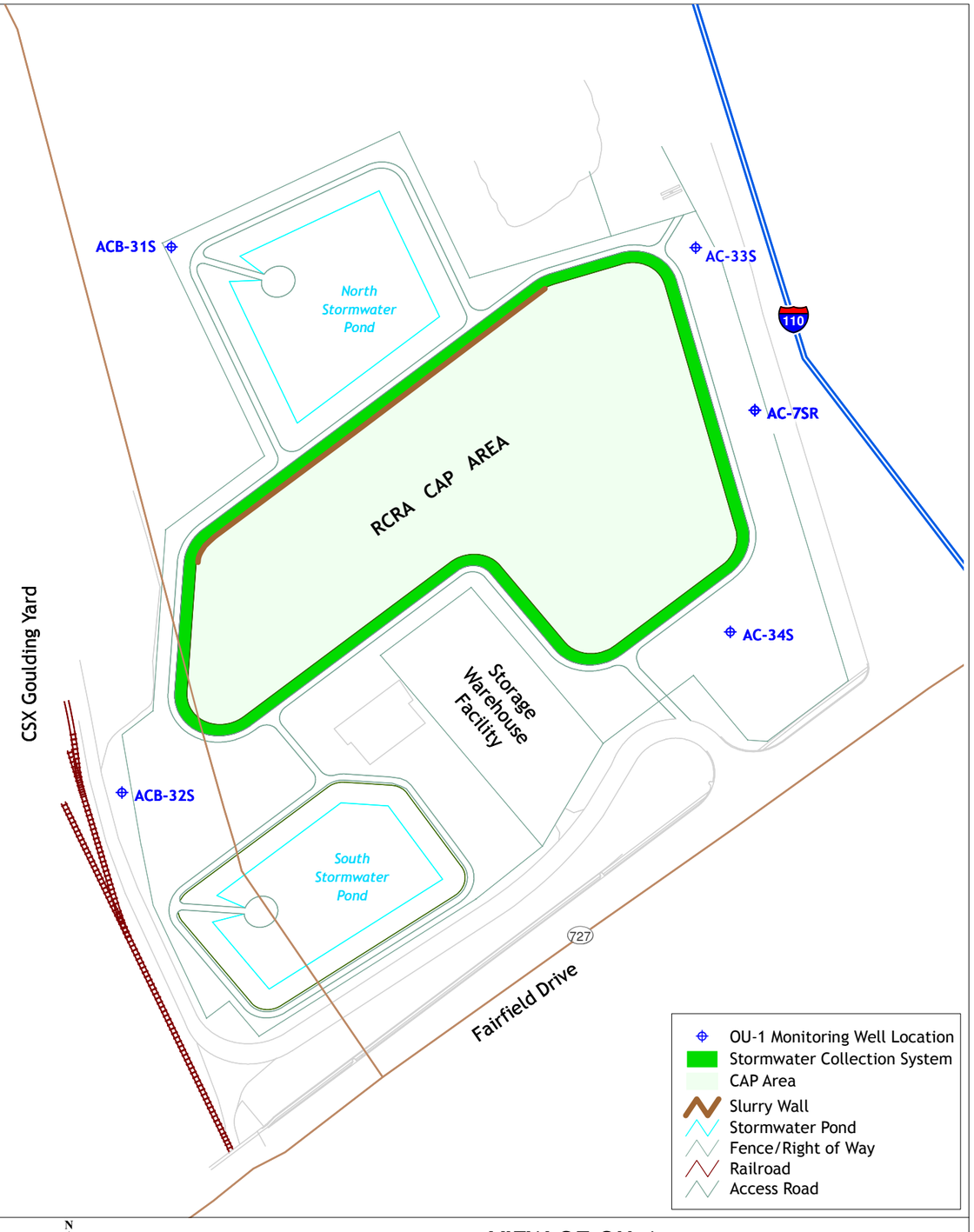

OU-1 and OU-2
AGRICO SITE
PENSACOLA, FLORIDA

AECOM

Base Map Data Provided By:
Florida Department of Environmental Protection
and Northwest Florida Water Management District
Aerial Source: ESRI

N W E S

250 125 0 250 500 Feet

VIEW OF OU-1
(Former Facility Area)
With Current Features

FIGURE
2

megan_clarisse - Tallahassee - 1/29/2016

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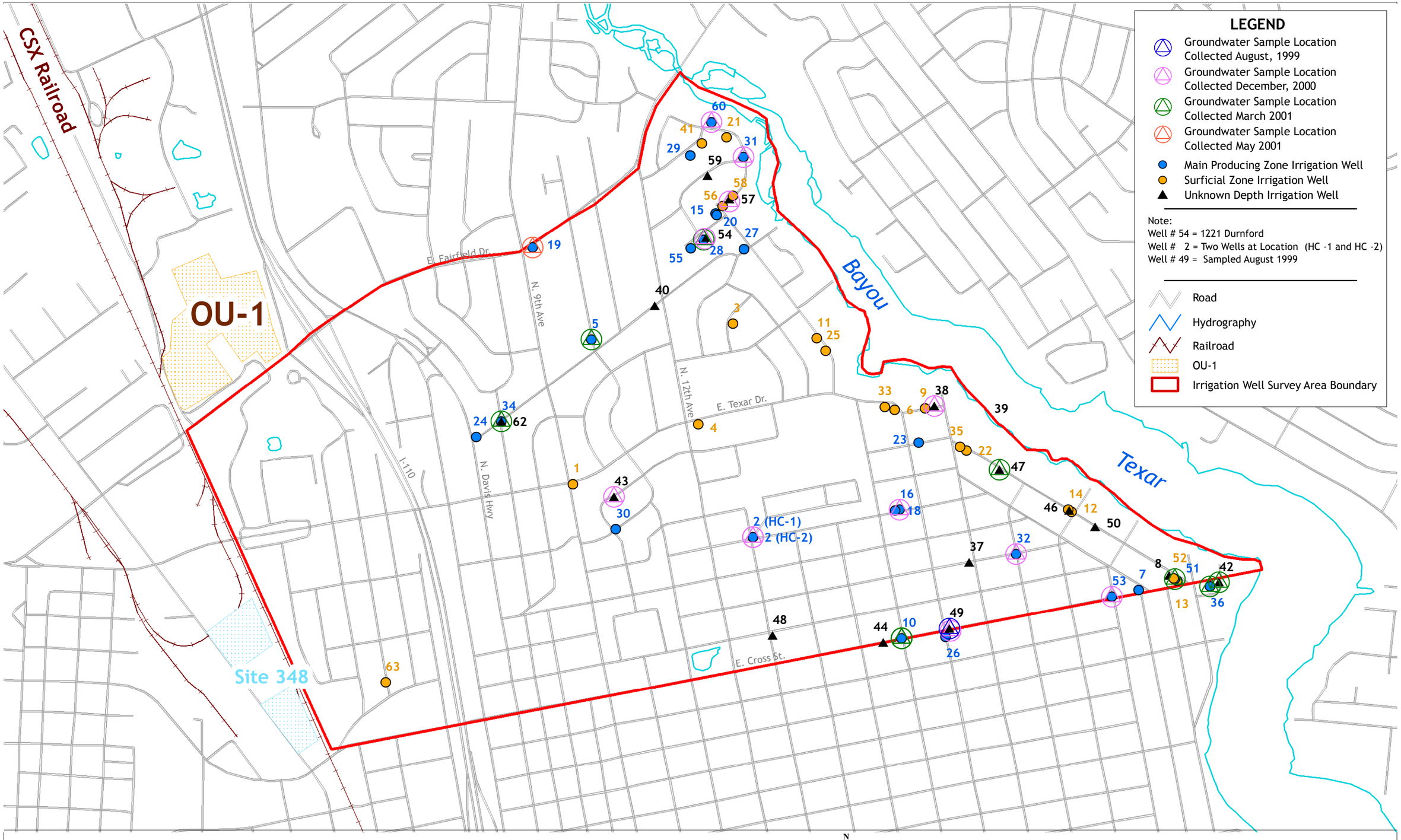

OU-1 and OU-2
AGRICO SITE
PENSACOLA, FLORIDA

AECOM

Base Map Data Provided By:
Florida Department of Environmental Protection
and Northwest Florida Water Management District

IRRIGATION WELL LOCATIONS

FIGURE 3

megan_clarisse - Tallahassee - 1/29/2016

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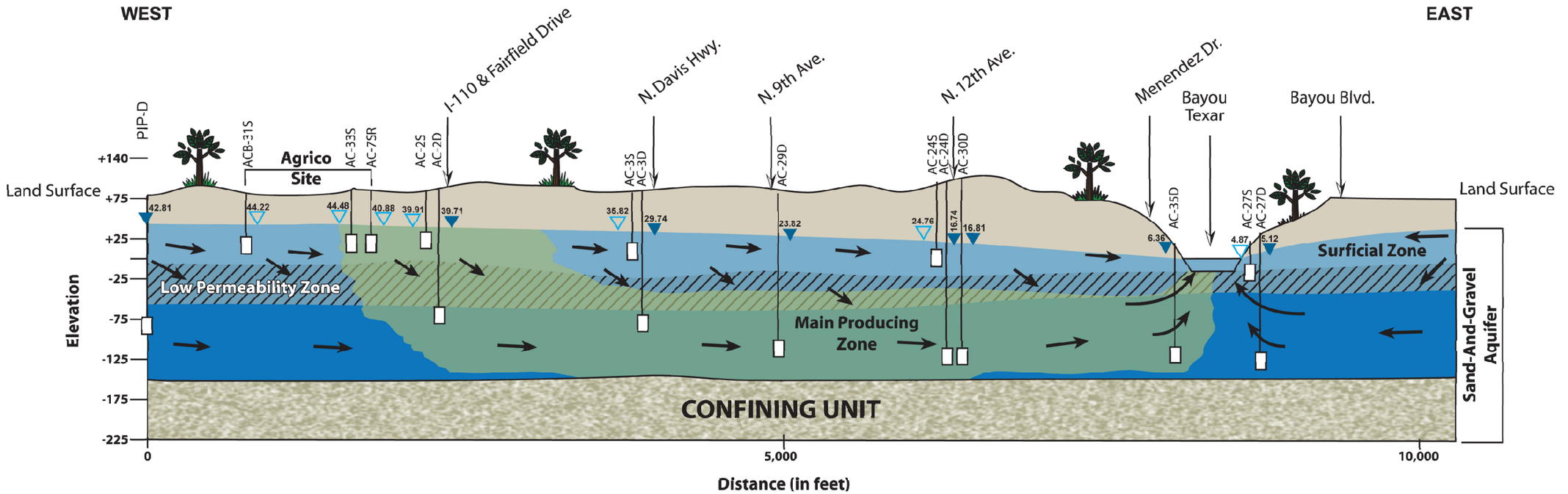

Legend

- Groundwater Flow
- Monitoring Well
- Screen Interval
- 35.59 Main Producing Zone Eleveations
- 34.56 Surficial Zone Well Elevations
- Area of Affected Groundwater

Note: Water Elevations (November 2012)

OU-1 and OU-2
AGRICO SITE
PENSACOLA, FLORIDA

AECOM

HYDROGEOLOGIC CONCEPTUAL MODEL
FROM AGRICO SITE TO BAYOU TEXAR

FIGURE
4

megan_clarisse - Tallahassee - 1/29/2016

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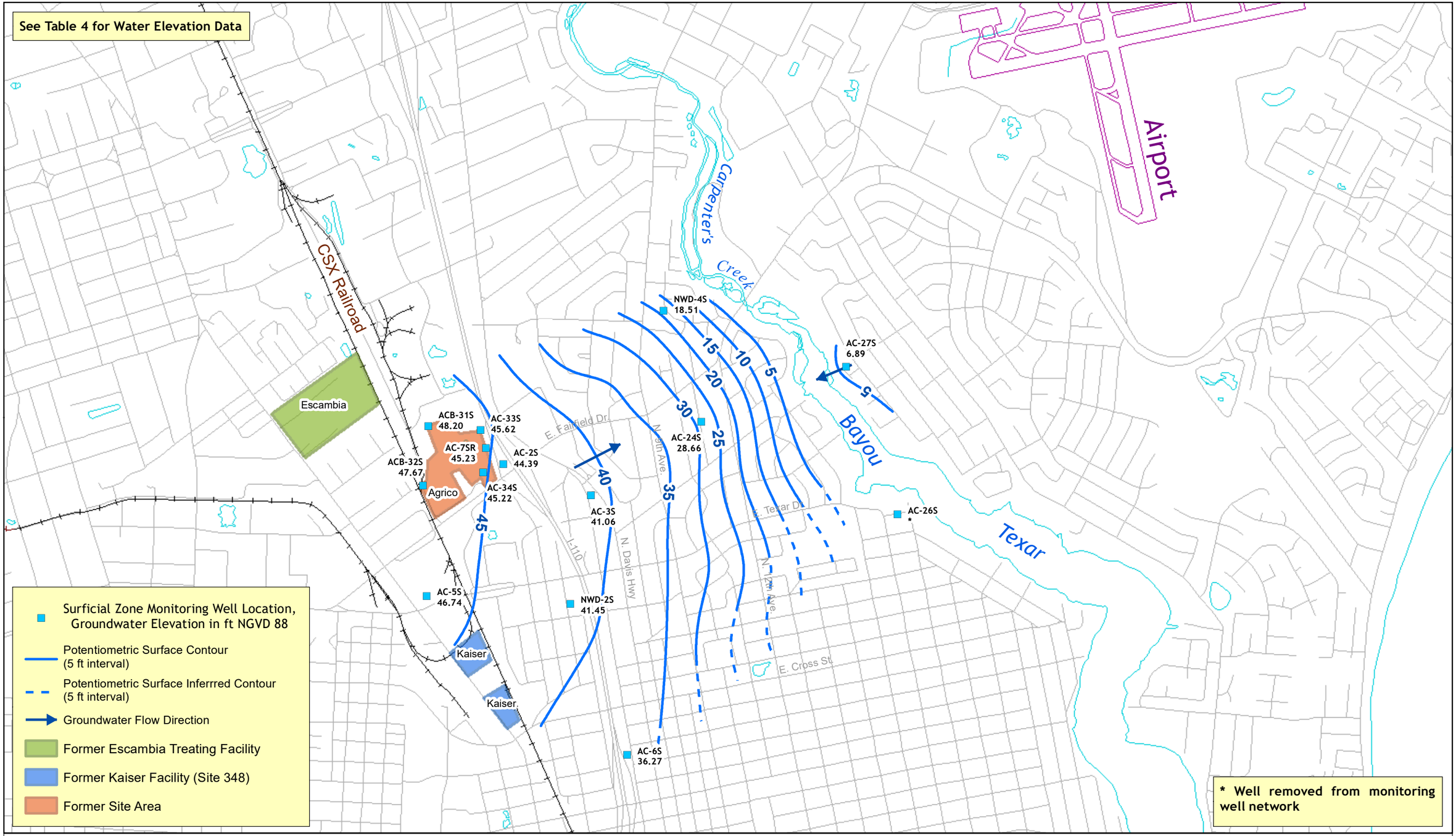
See Table 4 for Water Elevation Data



* Well removed from monitoring well network

OU-1 and OU-2
AGRICO SITE
PENSACOLA, FLORIDA

AECOM

Base Map Data Provided By:
Florida Department of Environmental Protection
and Northwest Florida Water Management District

N W E S

0.5 0.25 0 0.5 Miles

Coordinate System: UTM, Zone 16, NAD27

POTENTIOMETRIC SURFACE
SURFICIAL ZONE
November 2022

FIGURE
5

D. Hilton - Tallahassee - 11/23/2022

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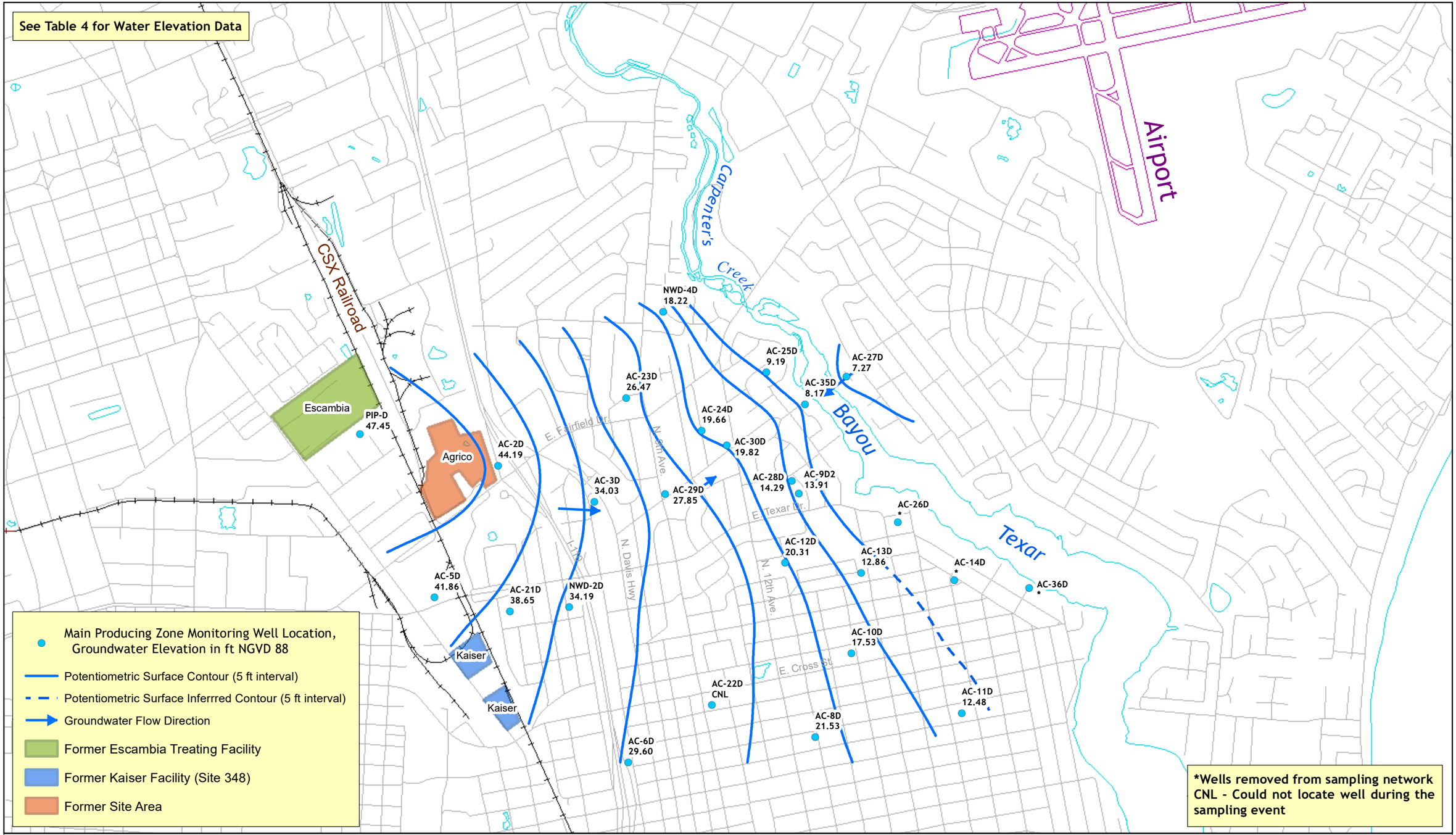
See Table 4 for Water Elevation Data



Main Producing Zone Monitoring Well Location, Groundwater Elevation in ft NGVD 88

Potentiometric Surface Contour (5 ft interval)

Potentiometric Surface Inferrred Contour (5 ft interval)

Groundwater Flow Direction

Former Escambia Treating Facility

Former Kaiser Facility (Site 348)

Former Site Area

*Wells removed from sampling network
CNL - Could not locate well during the sampling event

OU-1 and OU-2
AGRICO SITE
PENSACOLA, FLORIDA

AECOM

Base Map Data Provided By:
Florida Department of Environmental Protection
and Northwest Florida Water Management District

N W E S

0.5 0.25 0 0.5 Miles

Coordinate System: UTM, Zone 16, NAD27

POTENTIOMETRIC SURFACE
MAIN PRODUCING ZONE
November 2022

FIGURE
6

D. Hilton - Tallahassee - 11/23/2022

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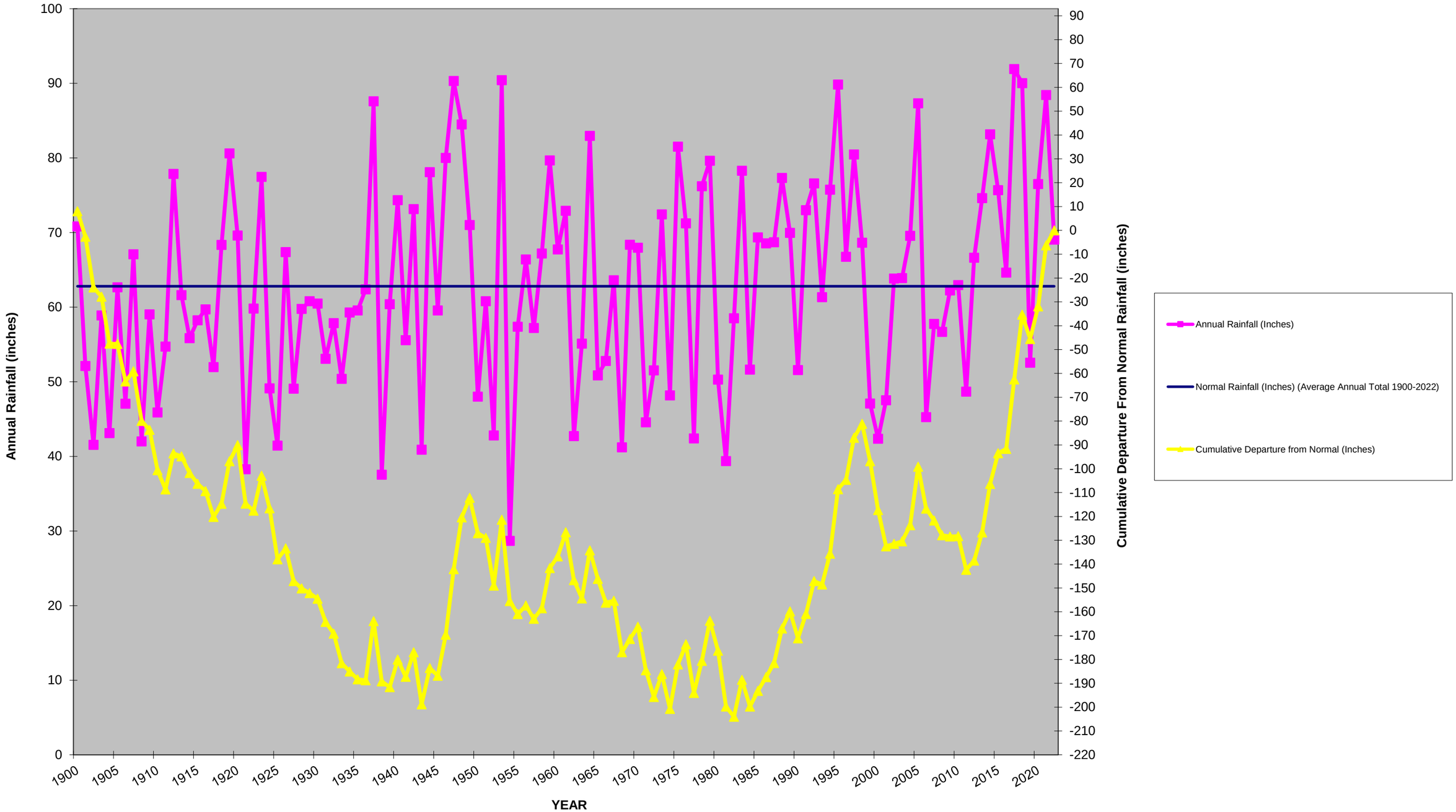
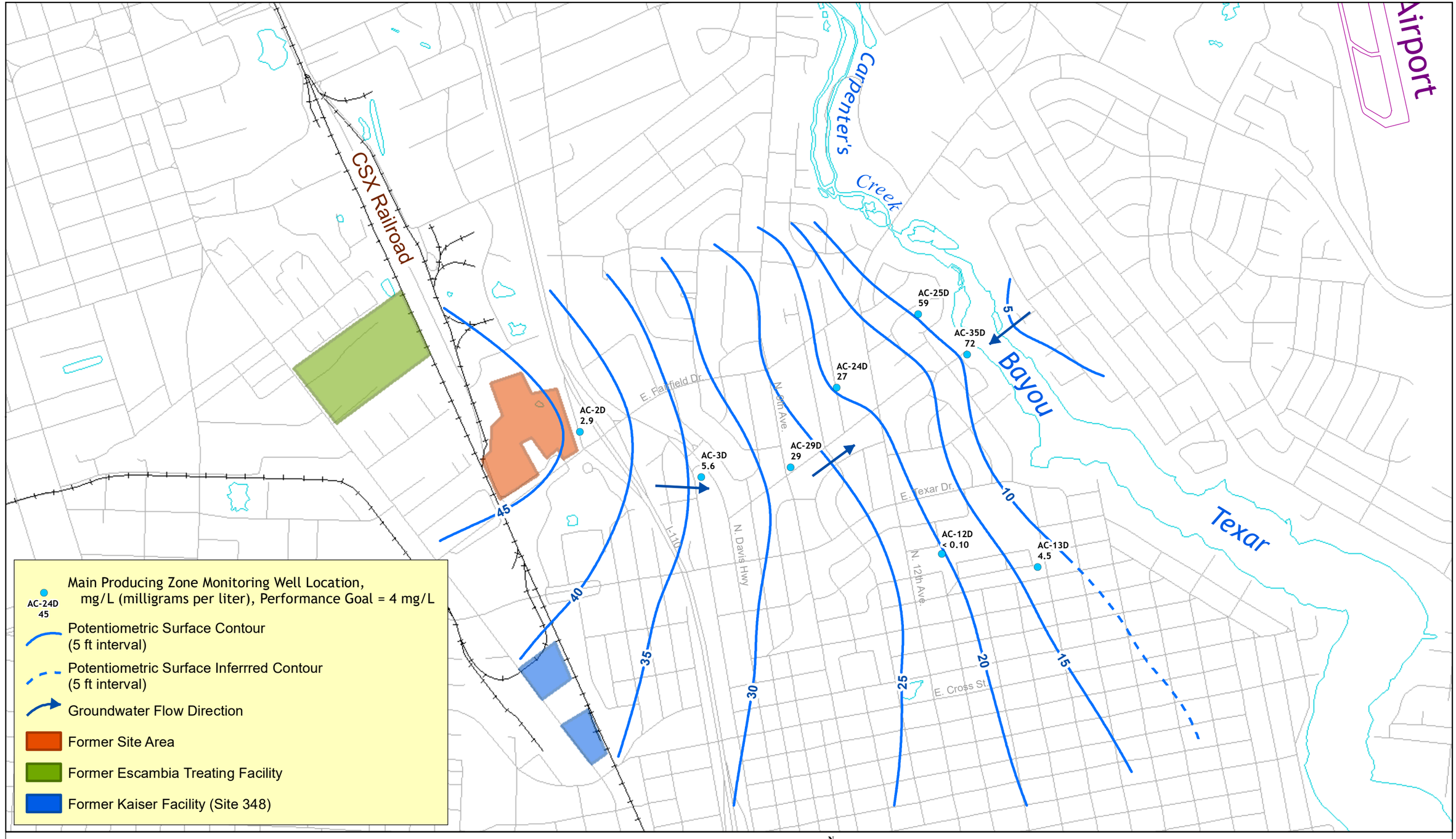
Figure 7
Annual Rainfall and Cumulative Departure from Normal
NOAA Rainfall Station
Pensacola, Florida





OU-1 and OU-2
AGRICO SITE
PENSACOLA, FLORIDA

AECOM

Base Map Data Provided By:
Florida Department of Environmental Protection
and Northwest Florida Water Management District

Coordinate System: UTM, Zone 16, NAD27

FLUORIDE CONCENTRATION
MAIN PRODUCING ZONE
November 2022

FIGURE
8

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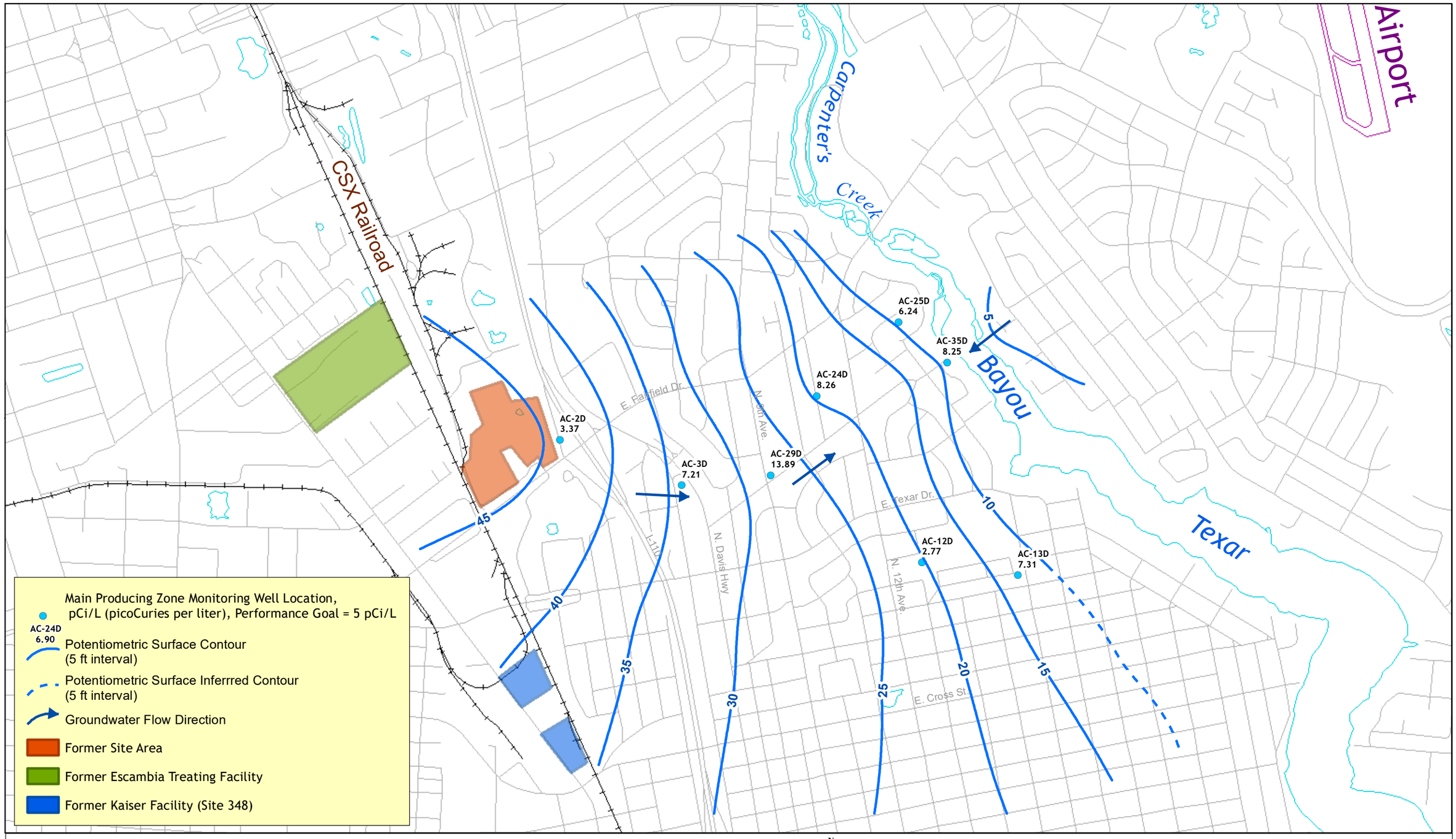

OU-1 and OU-2
AGRICO SITE
PENSACOLA, FLORIDA

AECOM

Base Map Data Provided By:
Florida Department of Environmental Protection
and Northwest Florida Water Management District

N
W E
S

0.5 0.25 0 0.5 Miles

Coordinate System: UTM, Zone 16, NAD27

COMBINED RADIUM 226+228
CONCENTRATION
MAIN PRODUCING ZONE
November 2022

FIGURE
9

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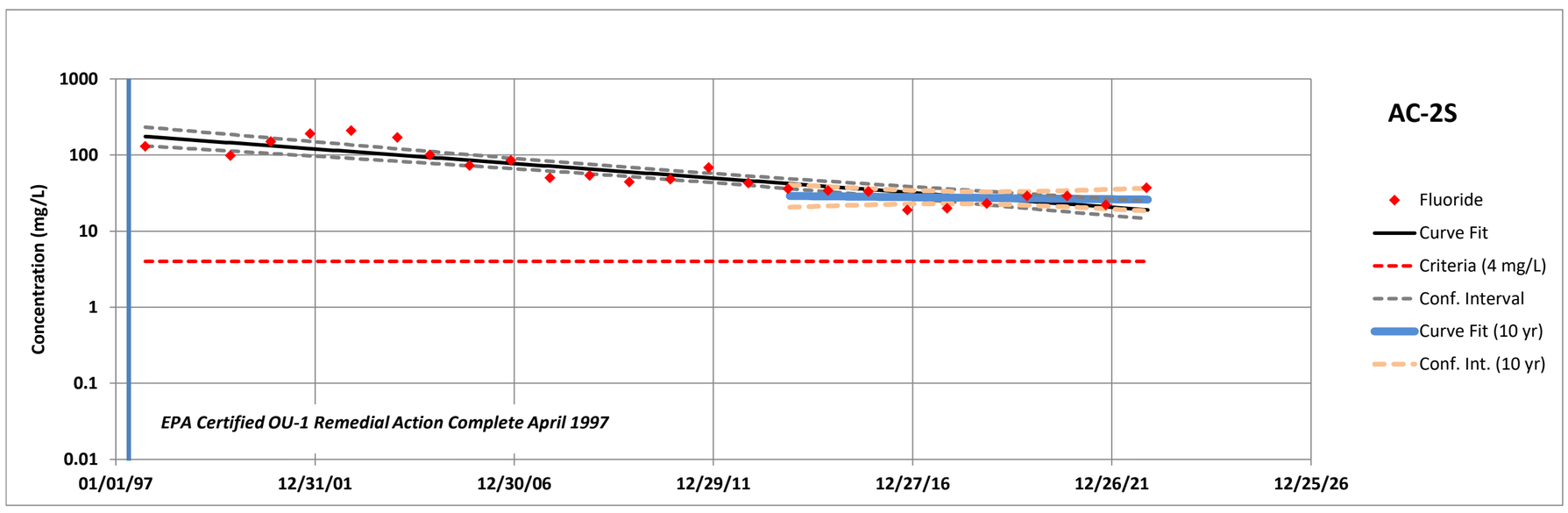
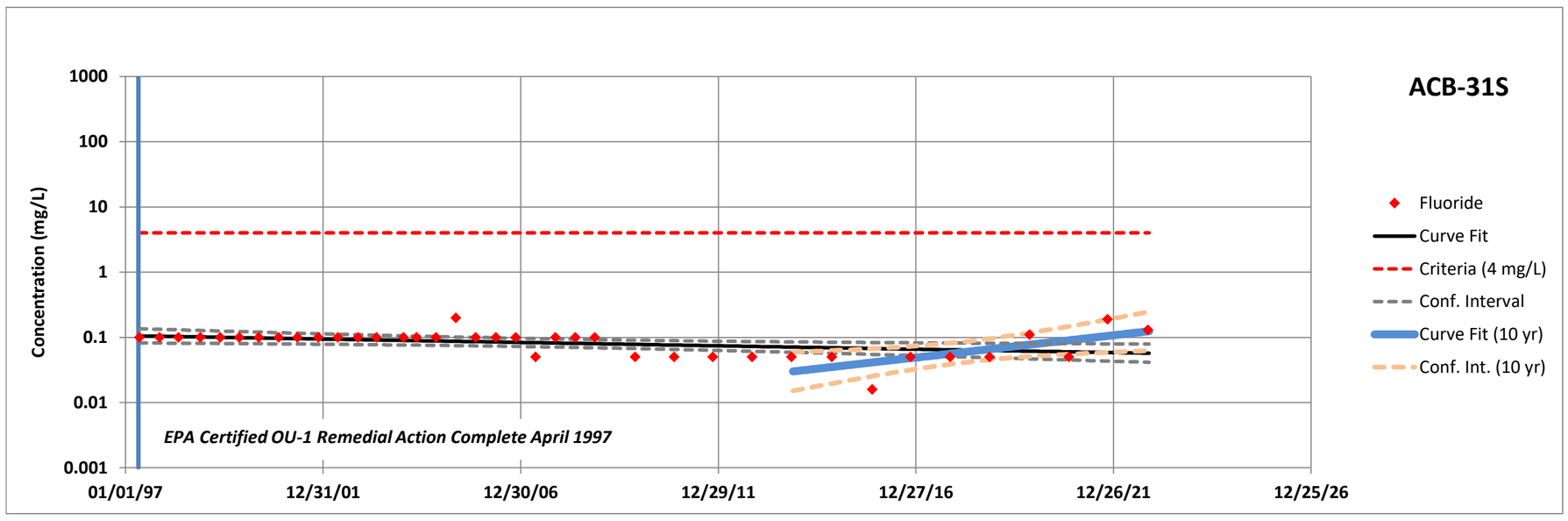
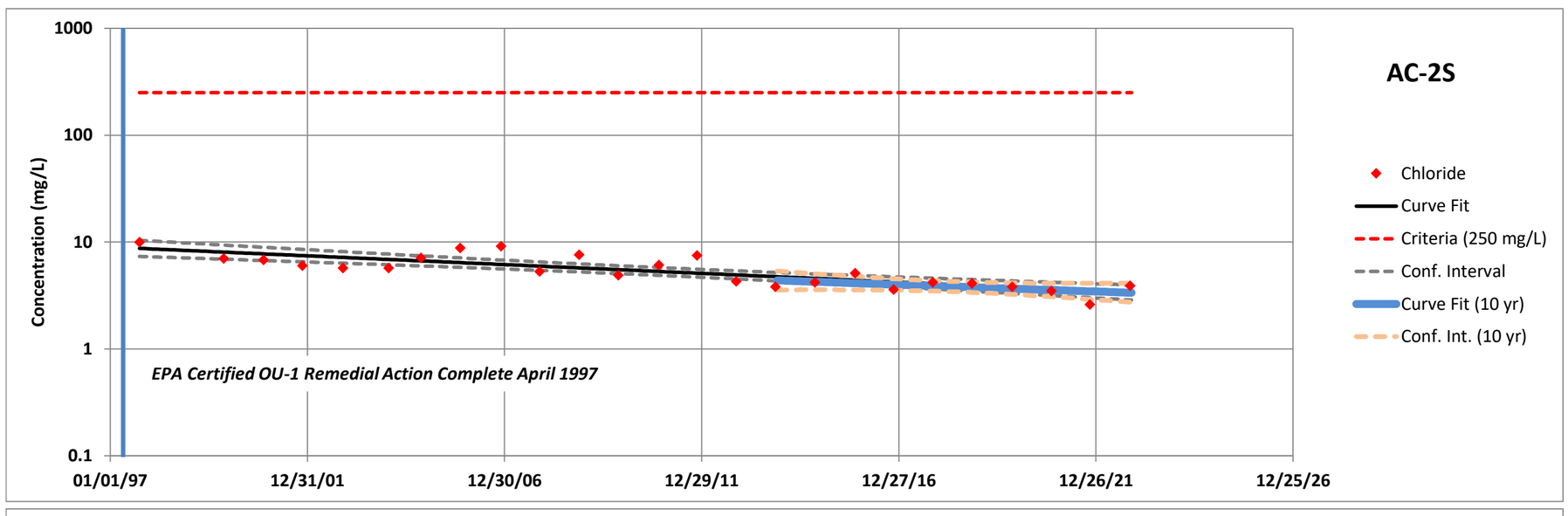
Figure 10

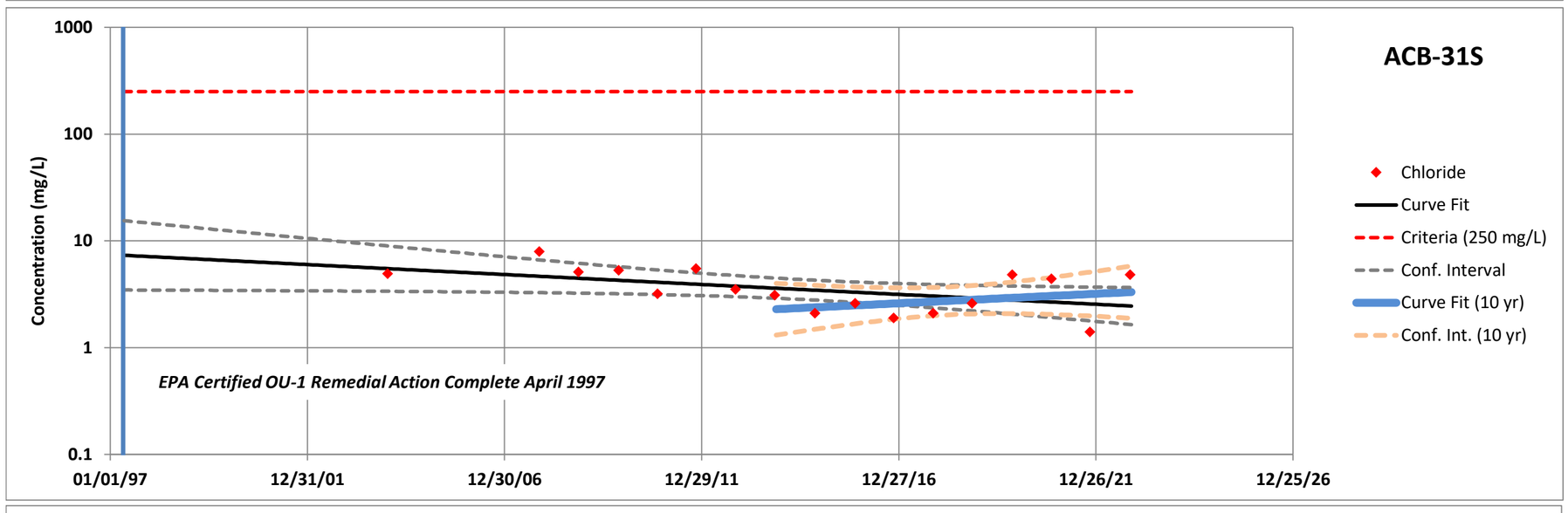
Concentration Trends
Surficial Zone
Annual Network Wells

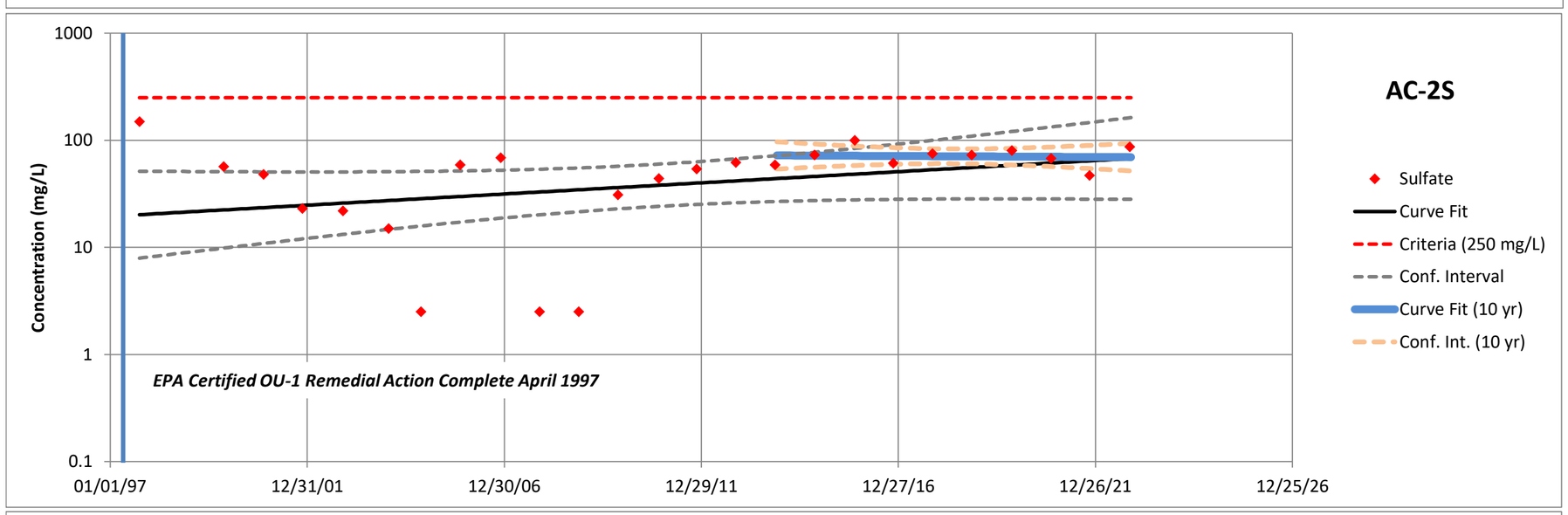
Agrico Site
Pensacola, Florida











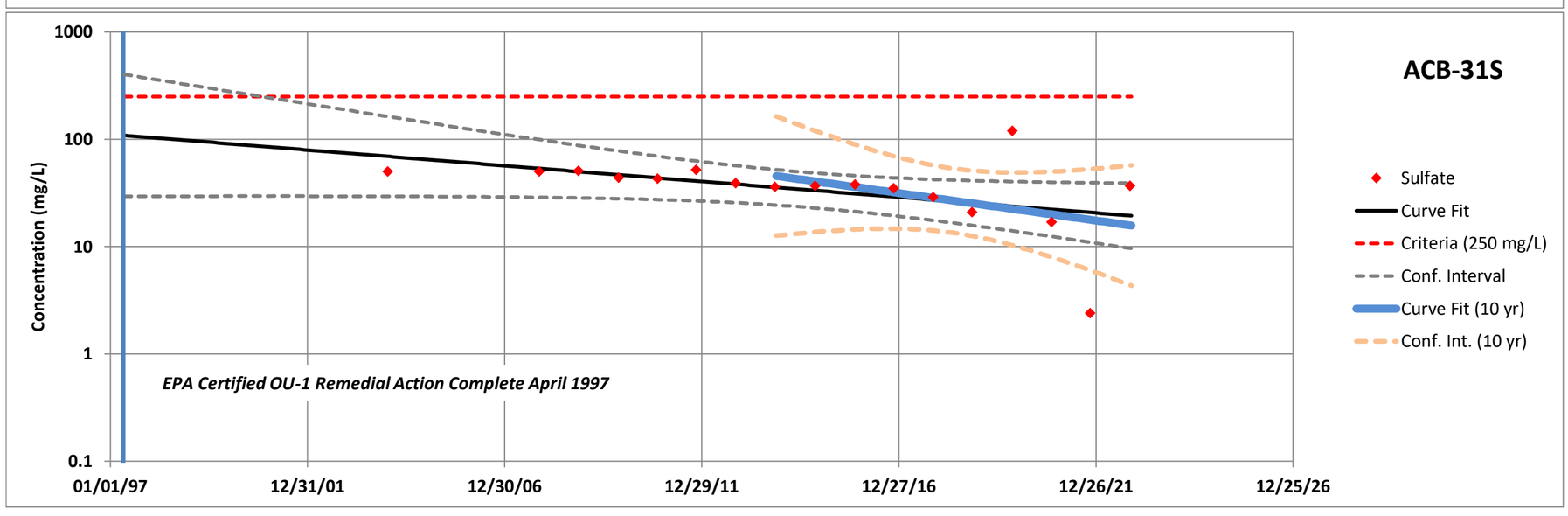
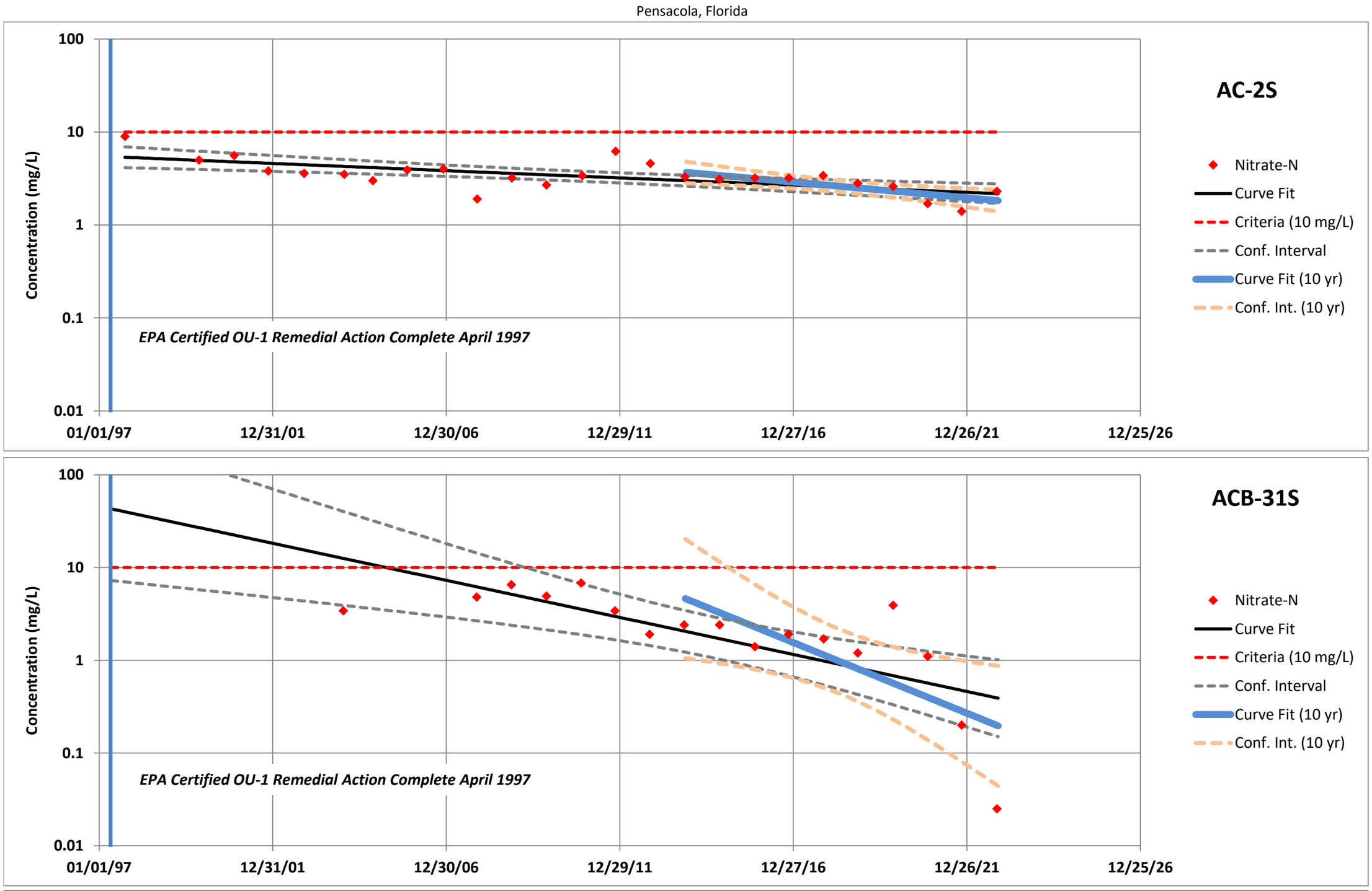
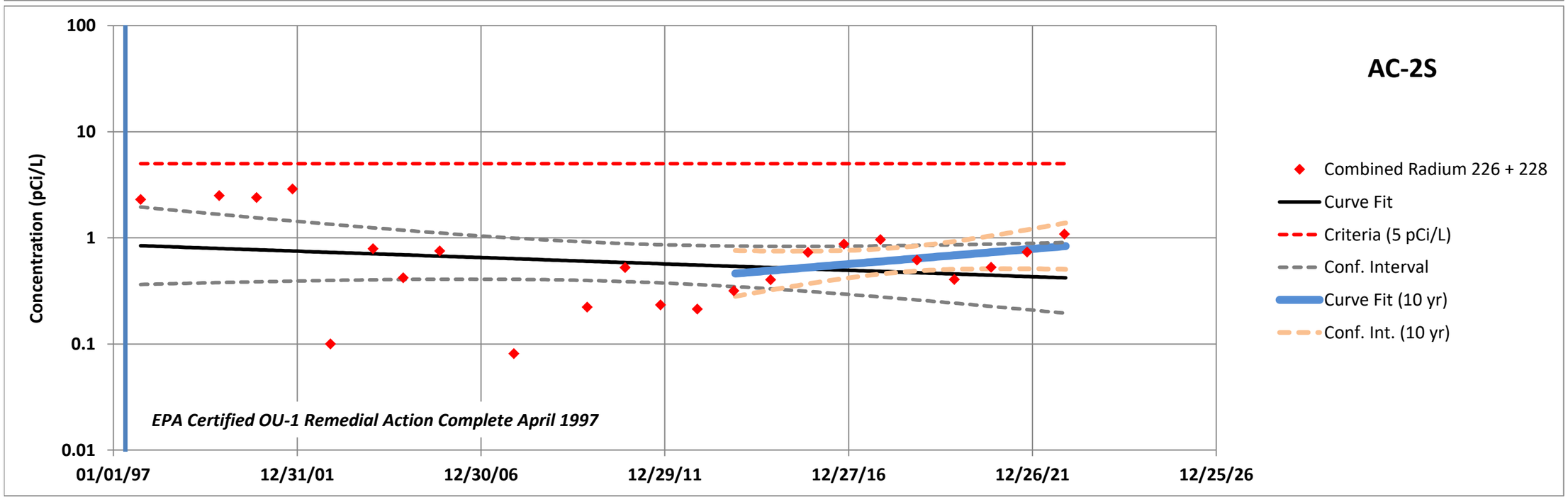


Figure 10 (Continued)

Concentration Trends
Surficial Zone
Annual Network Wells

Agrico Site
Pensacola, Florida





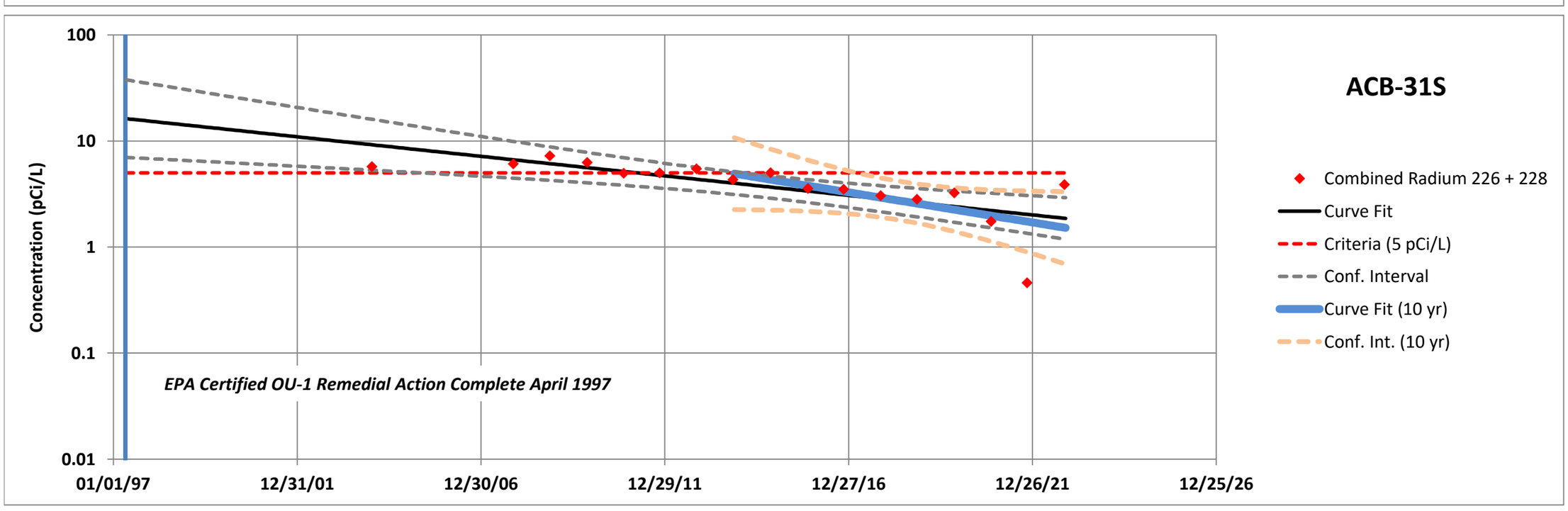
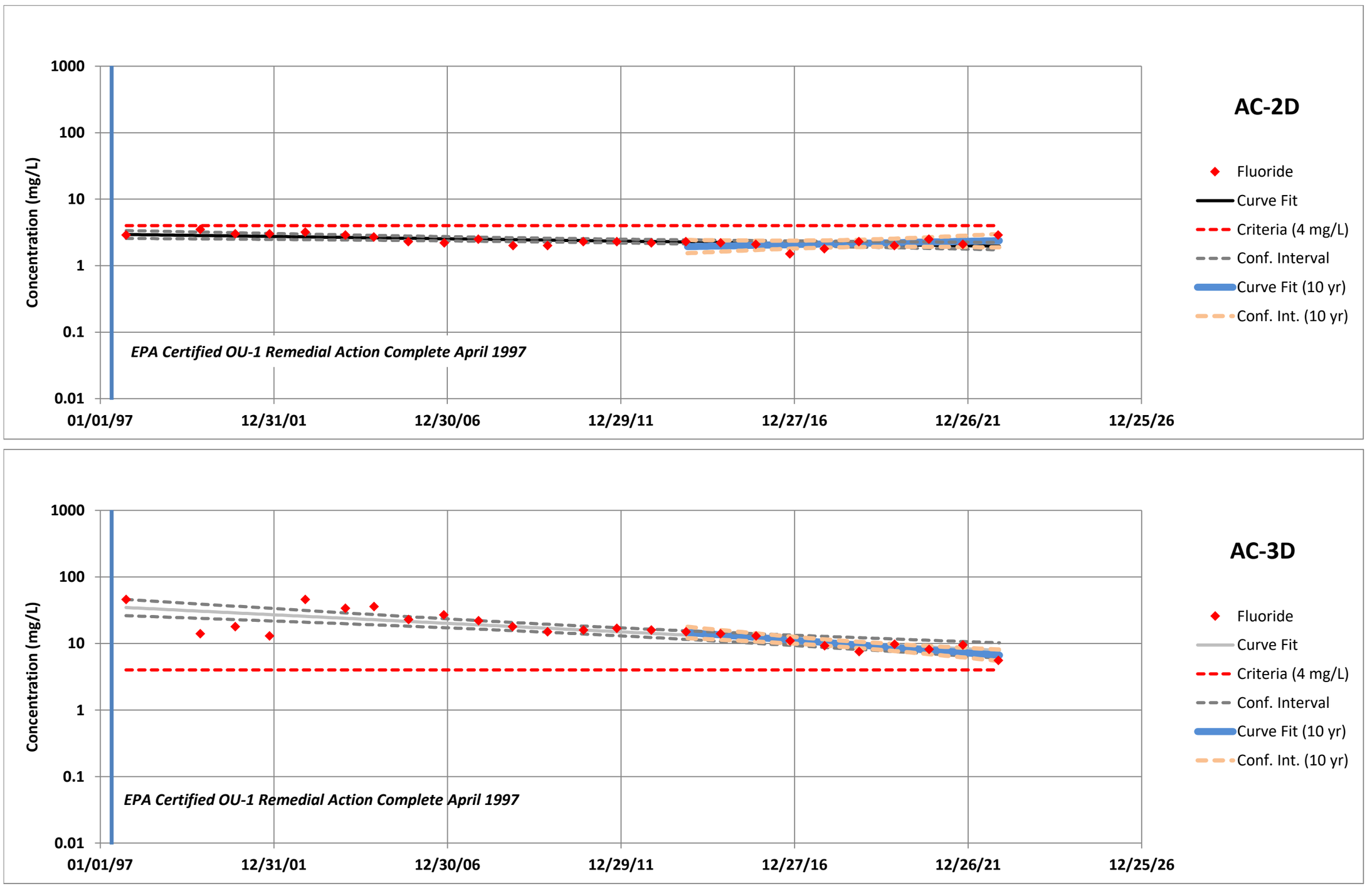
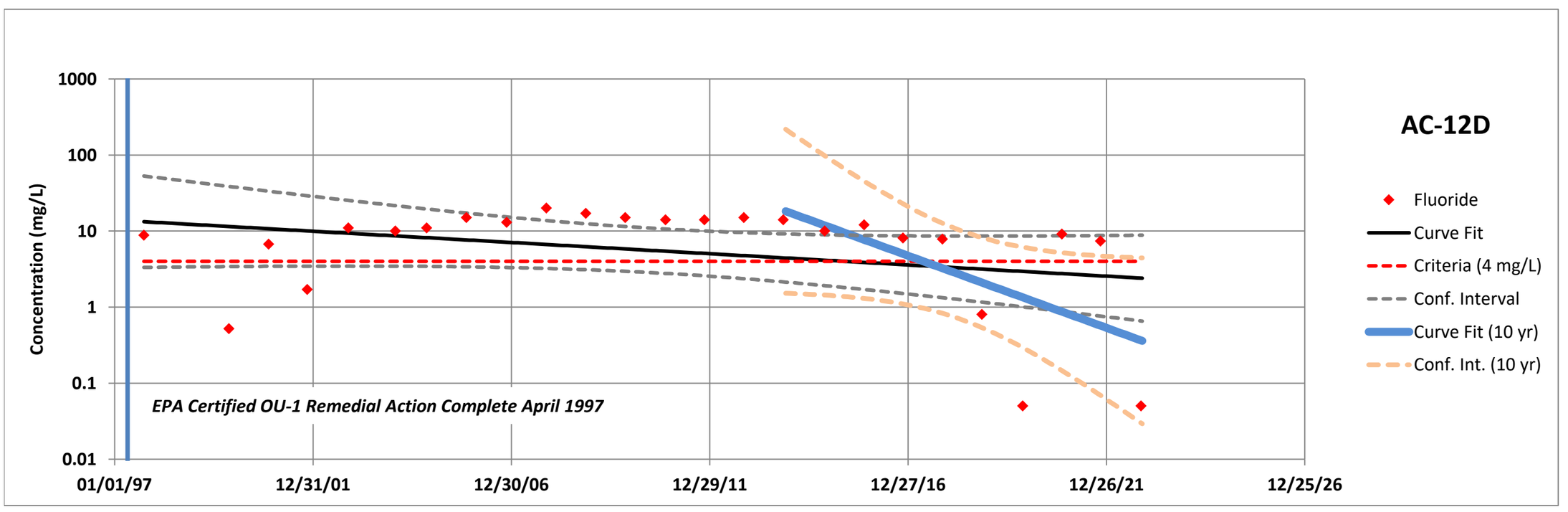


Figure 11

Concentration Trends
Main Producing Zone
Annual Network Wells

Agrico Site
Pensacola, Florida





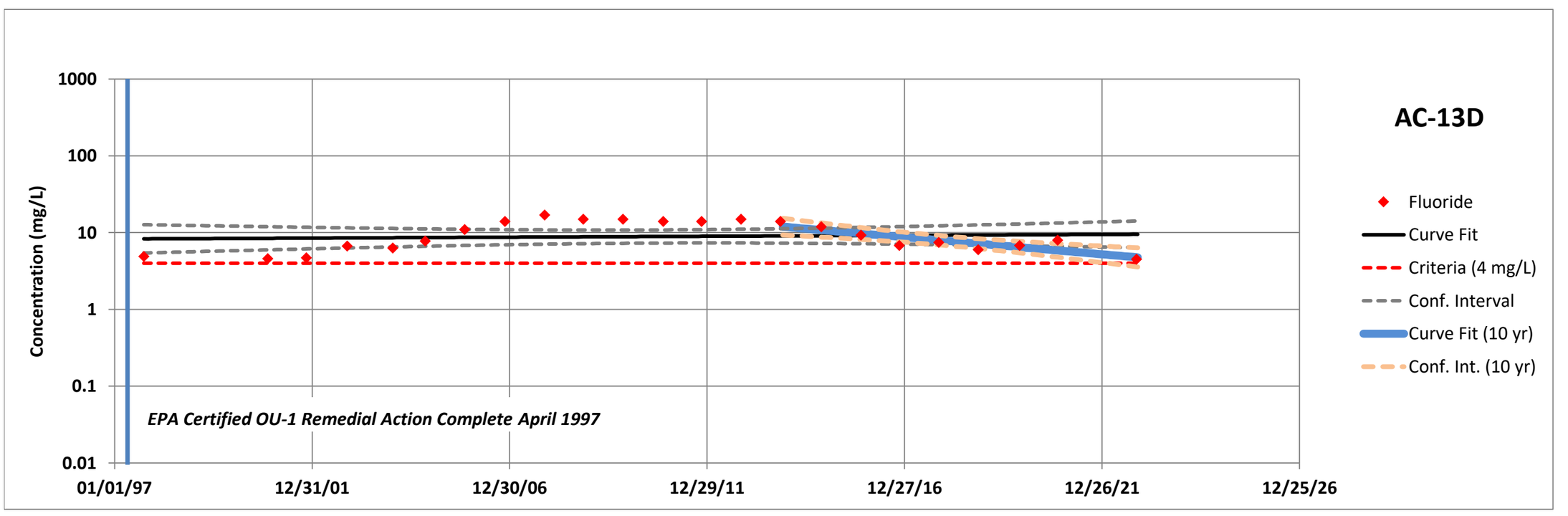
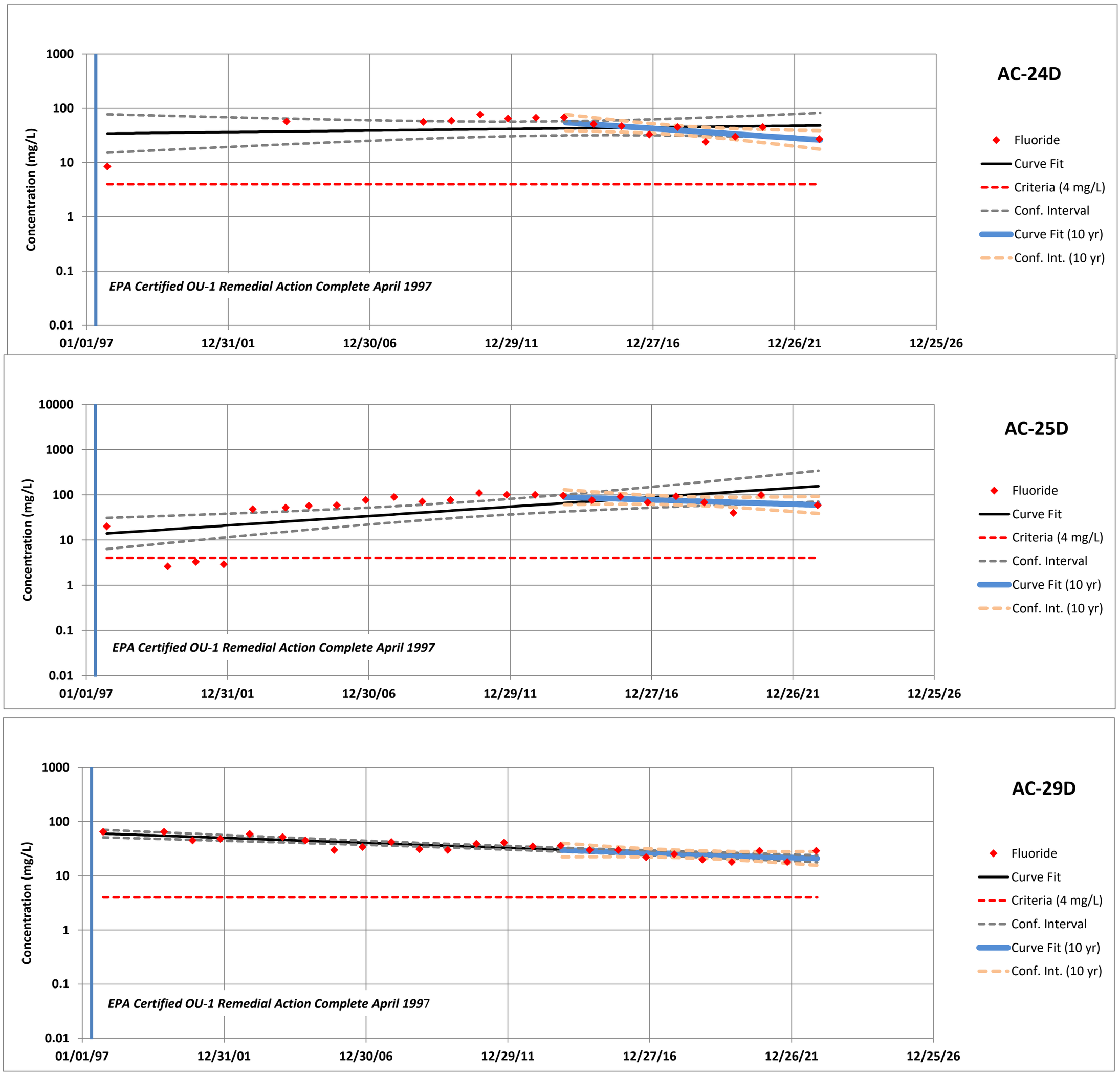


Figure 11 (Continued)

Concentration Trends
Main Producing Zone
Annual Network Wells

Agrico Site
Pensacola, Florida



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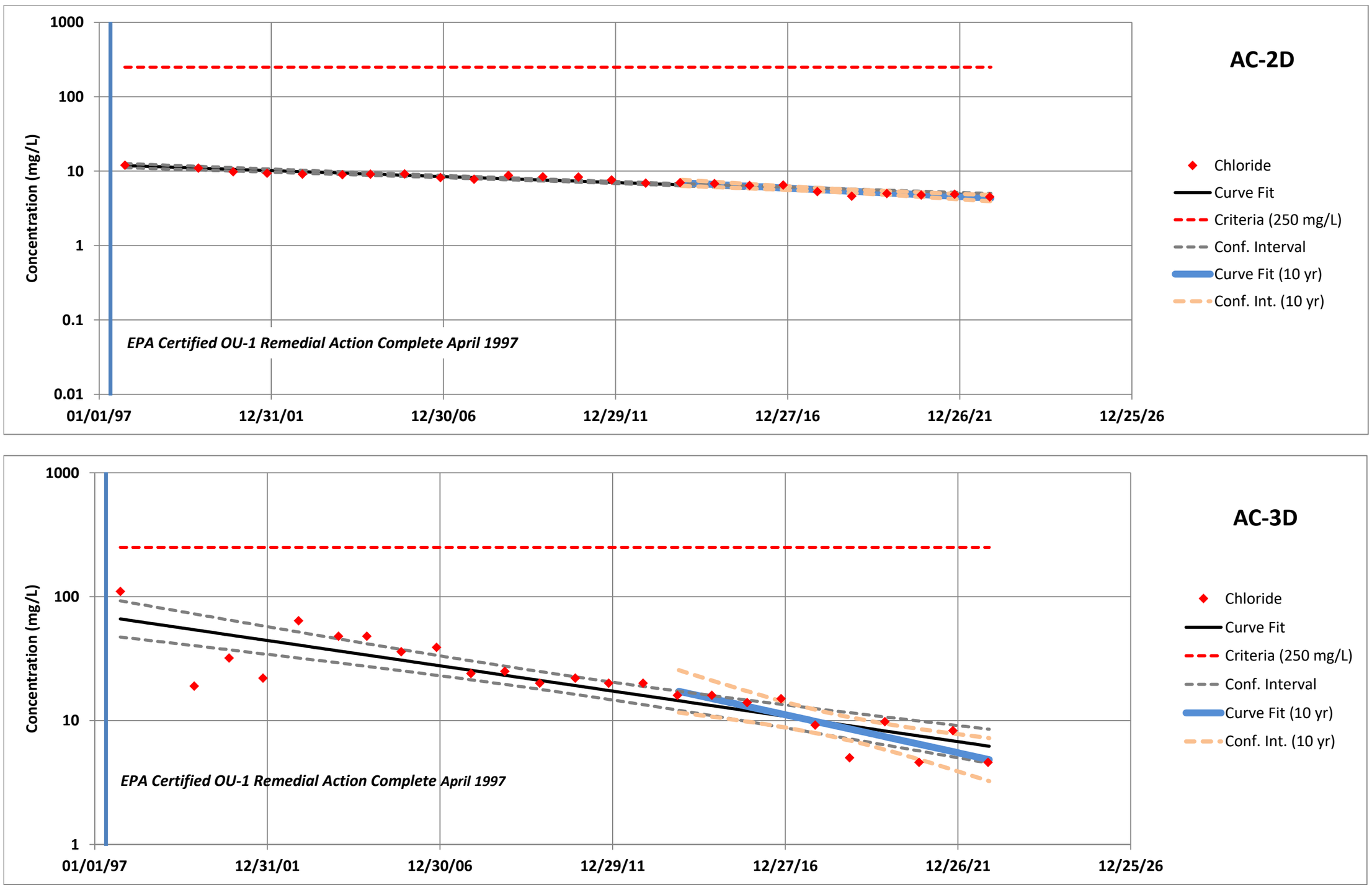
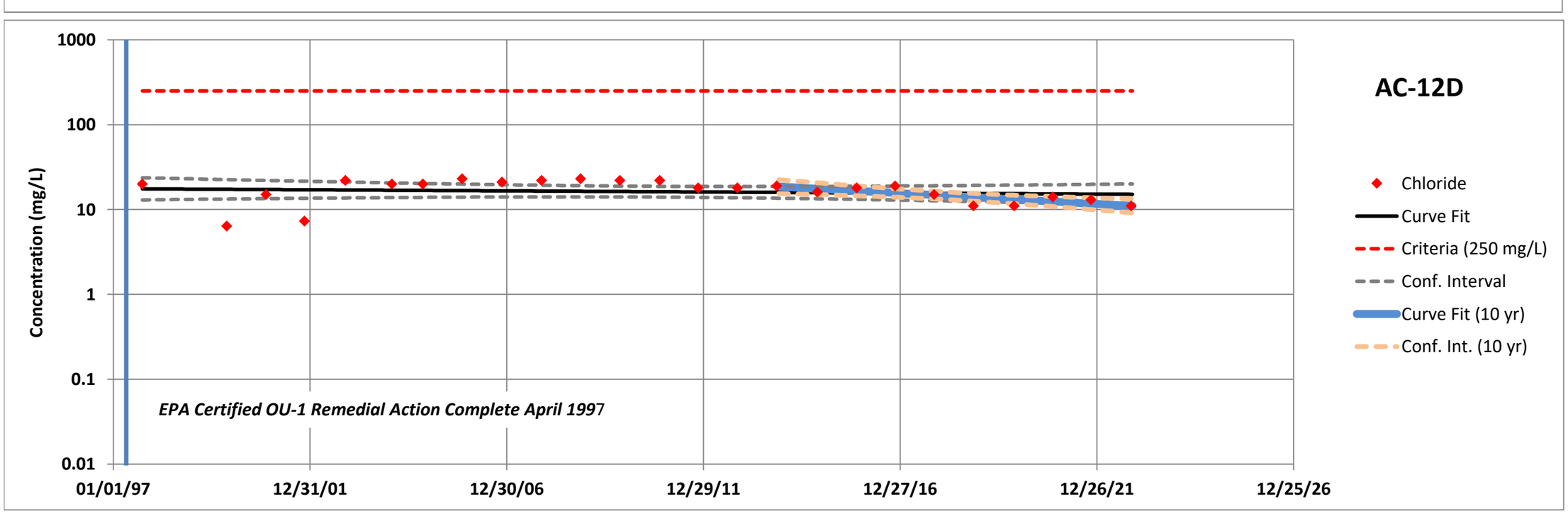
Concentration Trends
Main Producing Zone
Annual Network Wells

Agrico Site
Pensacola, Florida





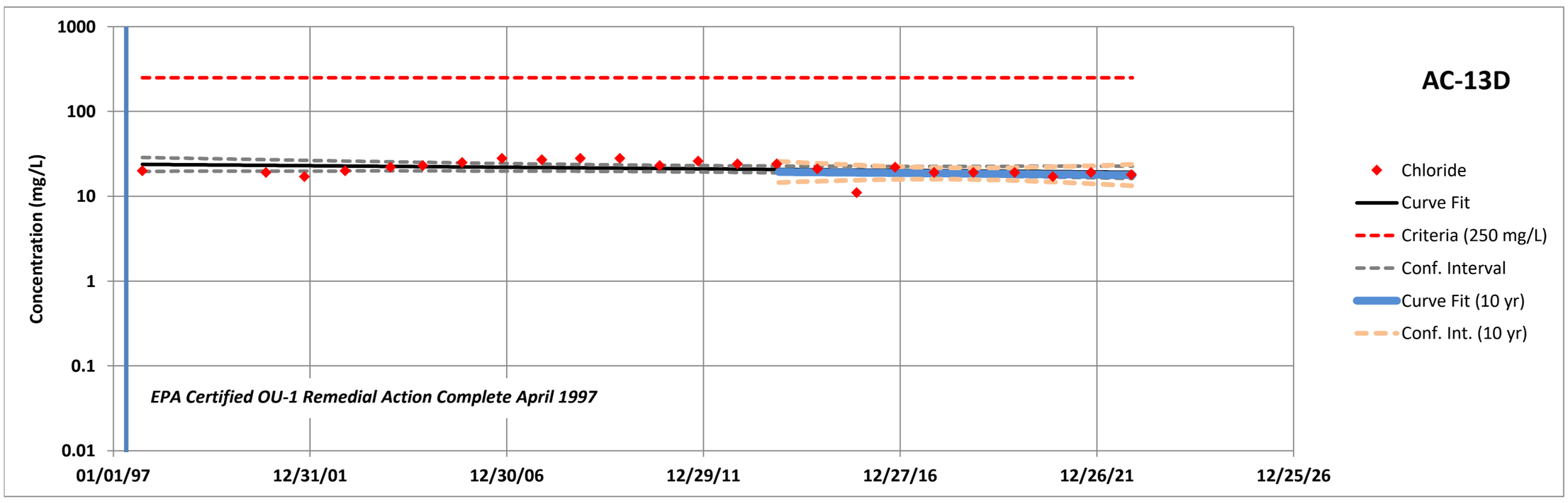
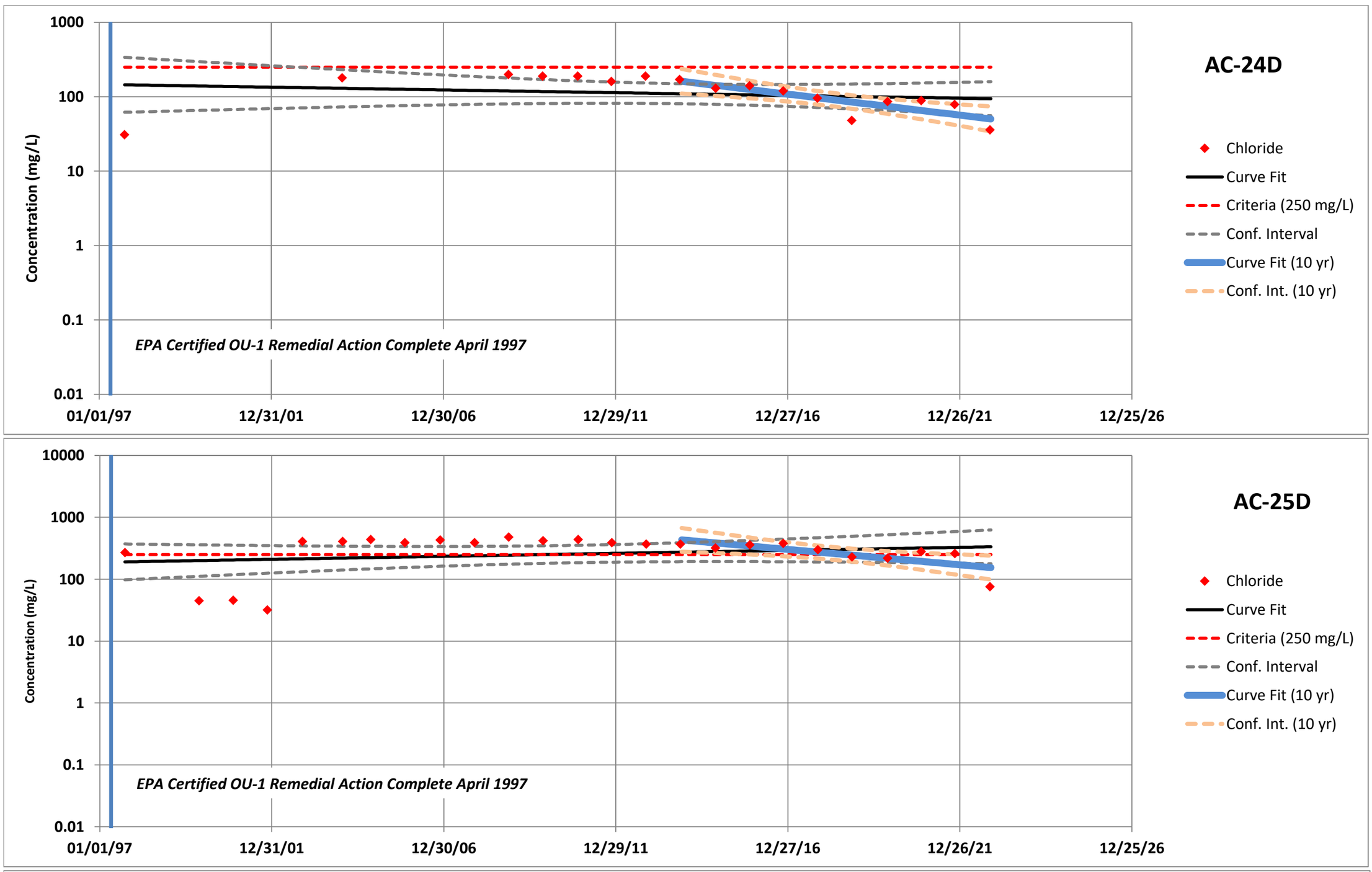
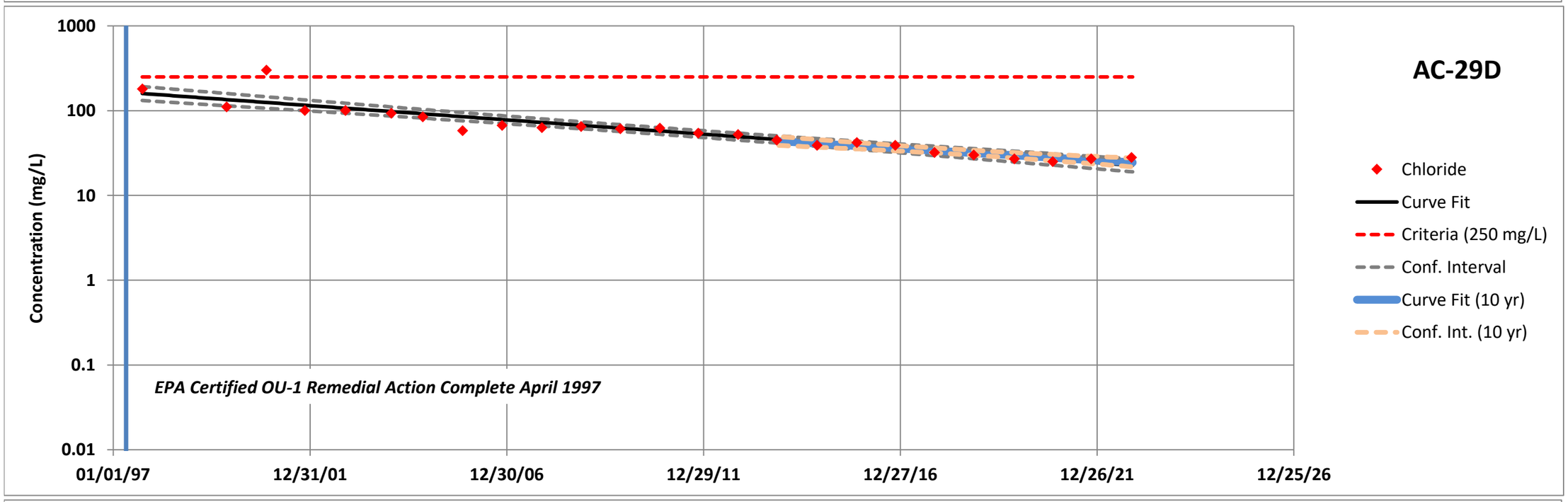


Figure 11 (Continued)

Concentration Trends
Main Producing Zone
Annual Network Wells

Agrico Site
Pensacola, Florida





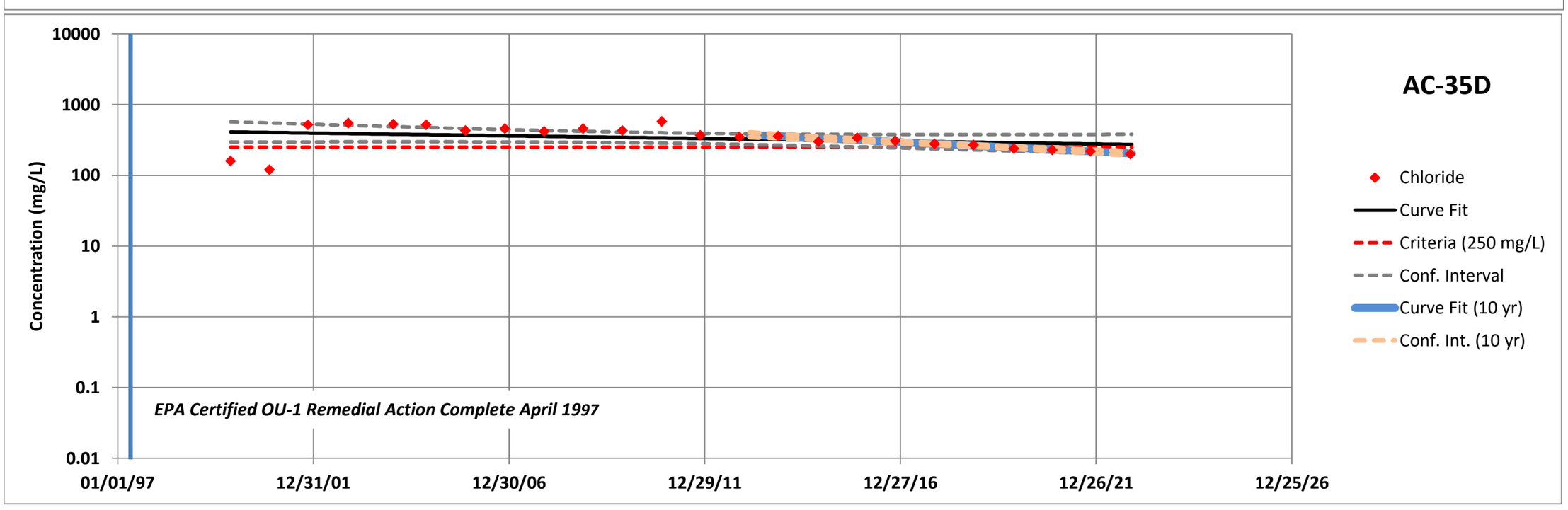
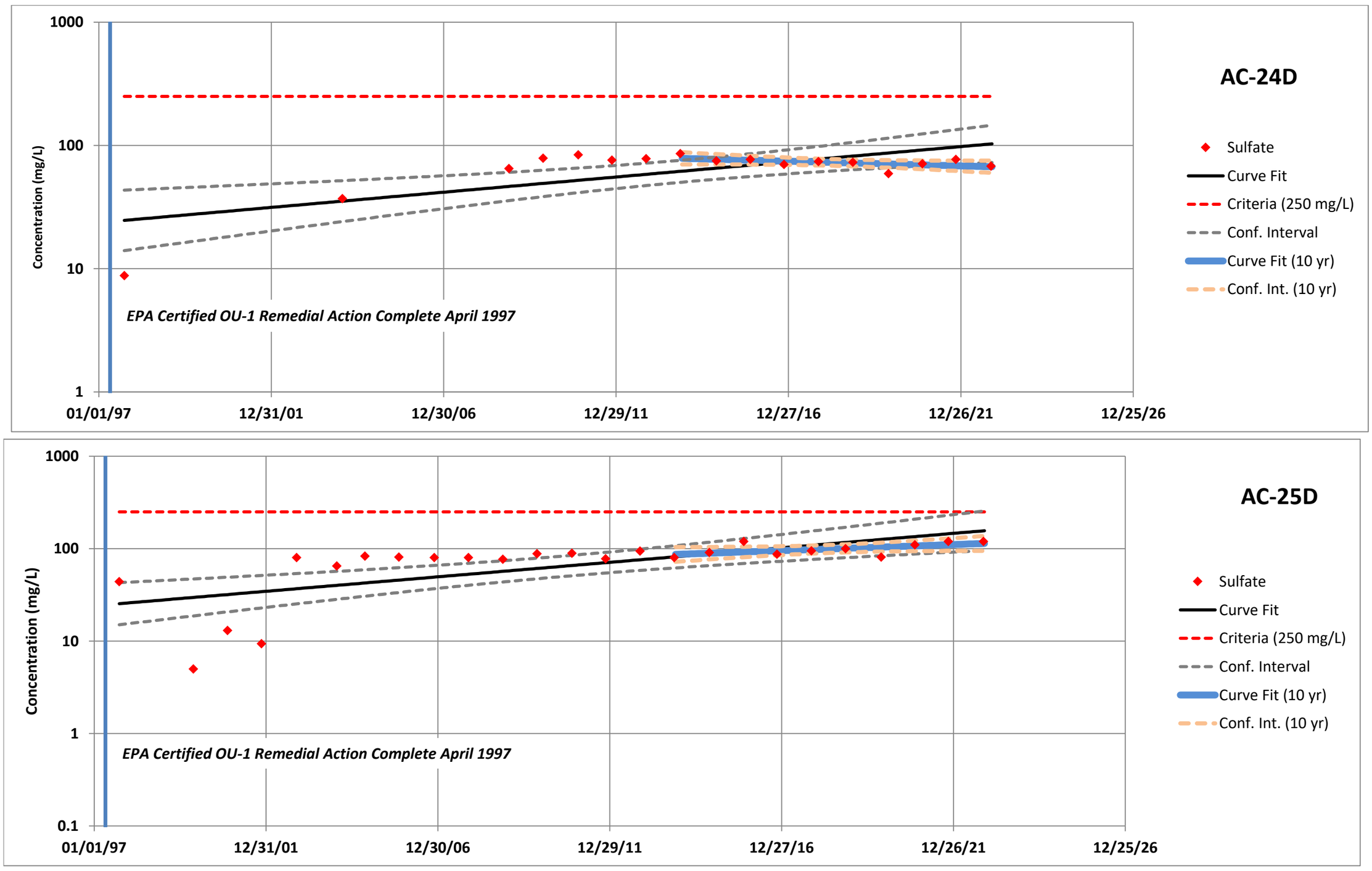
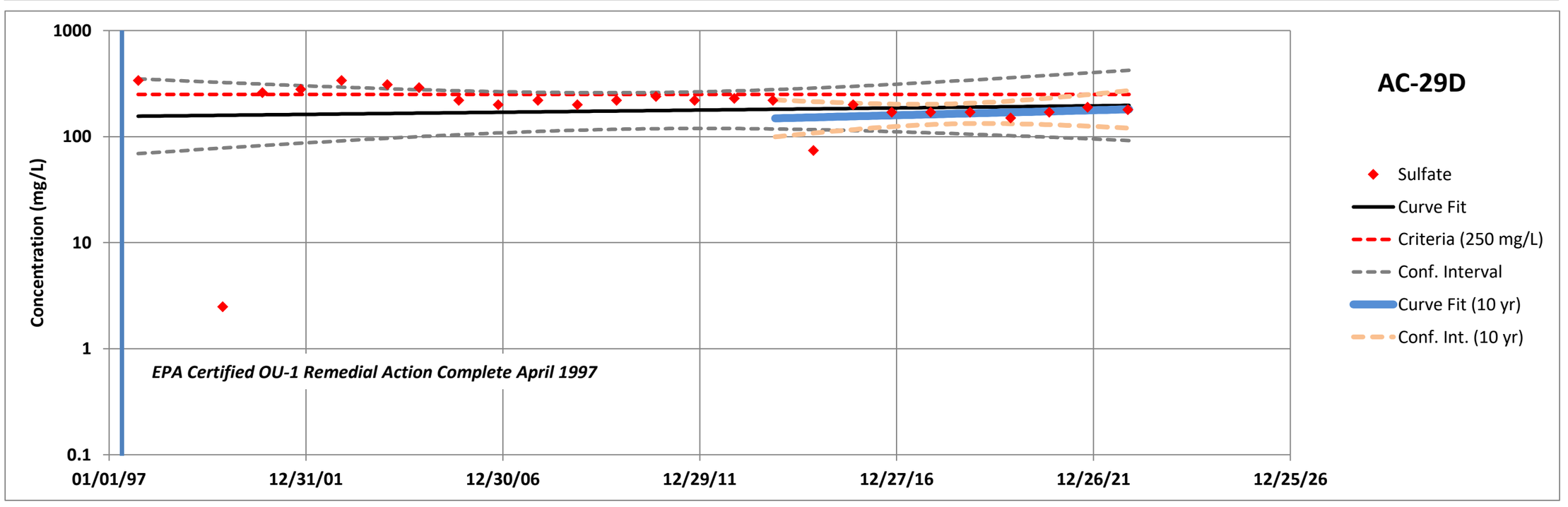


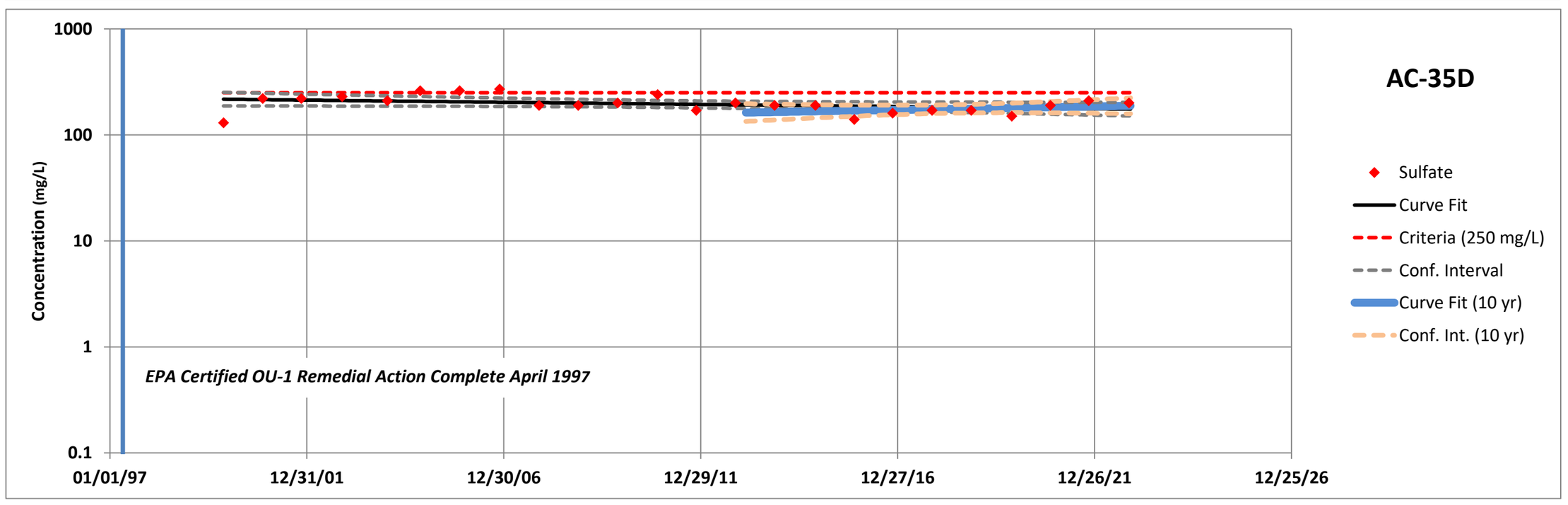
Figure 11 (Continued)

Concentration Trends
Main Producing Zone
Annual Network Wells

Agrico Site
Pensacola, Florida







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Concentration Trends
Main Producing Zone
Annual Network Wells

Agrico Site
Pensacola, Florida

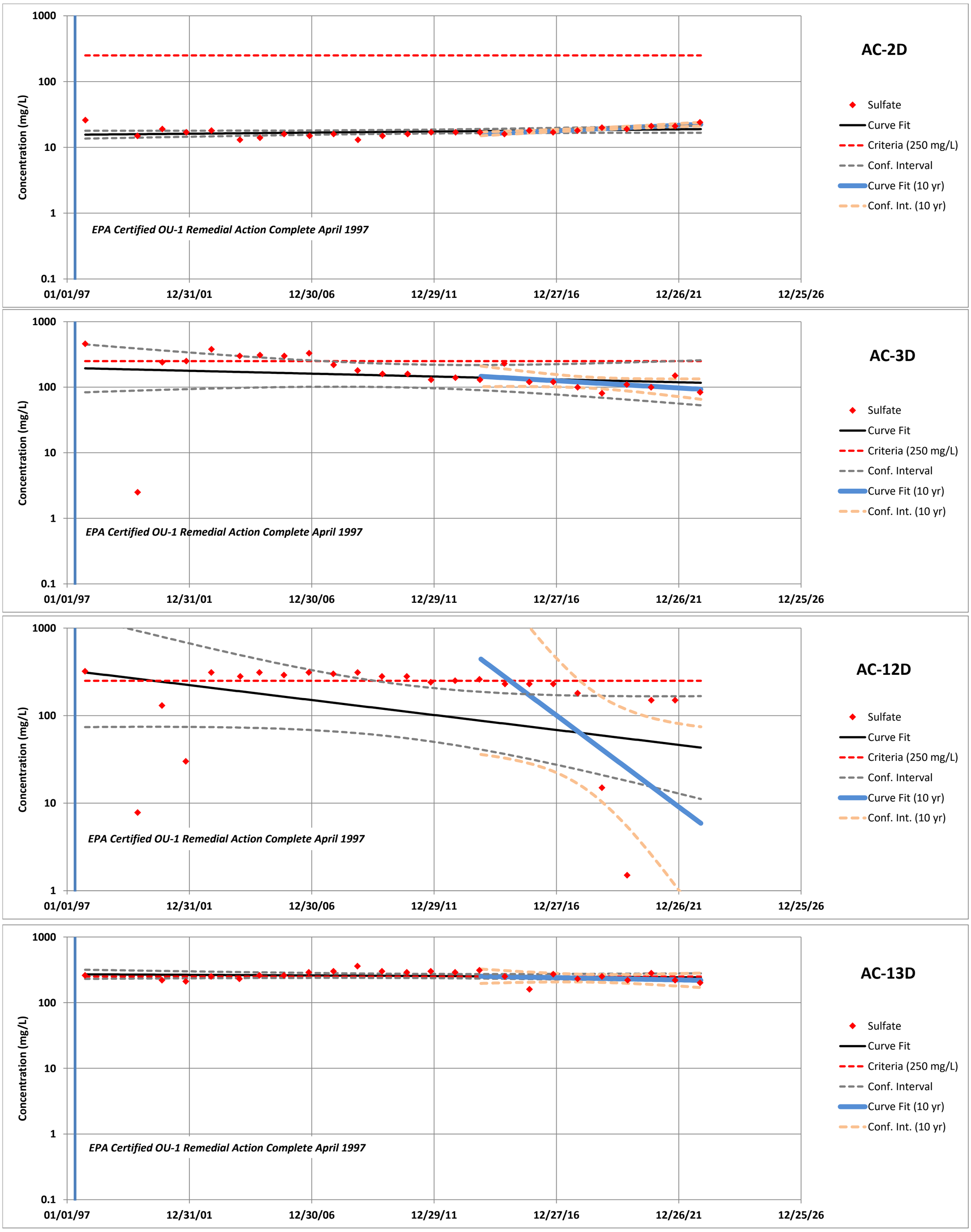
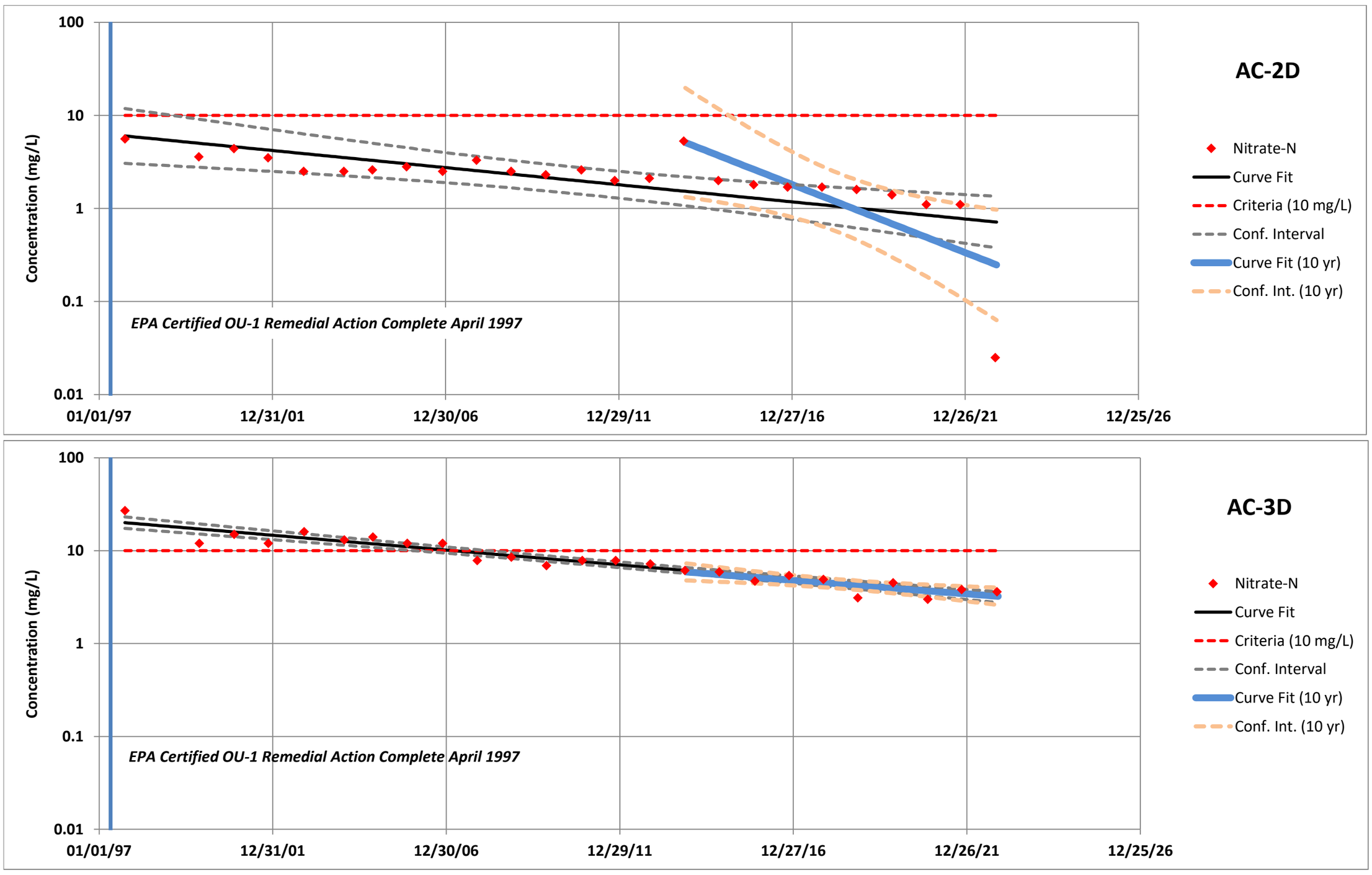
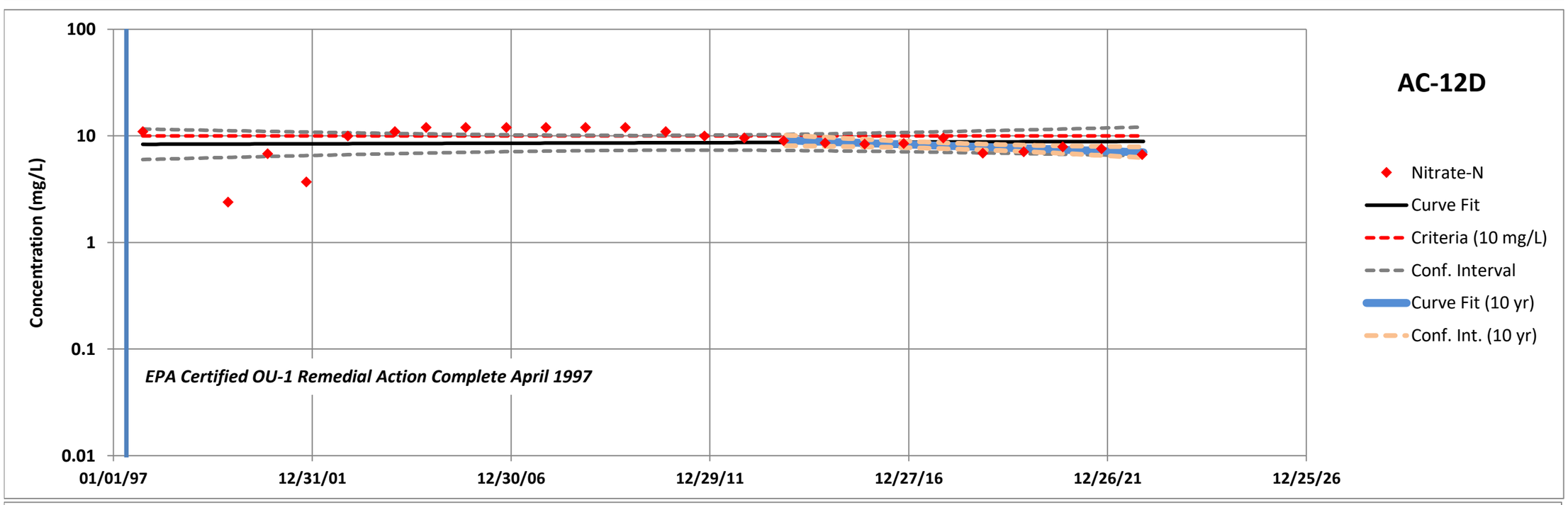


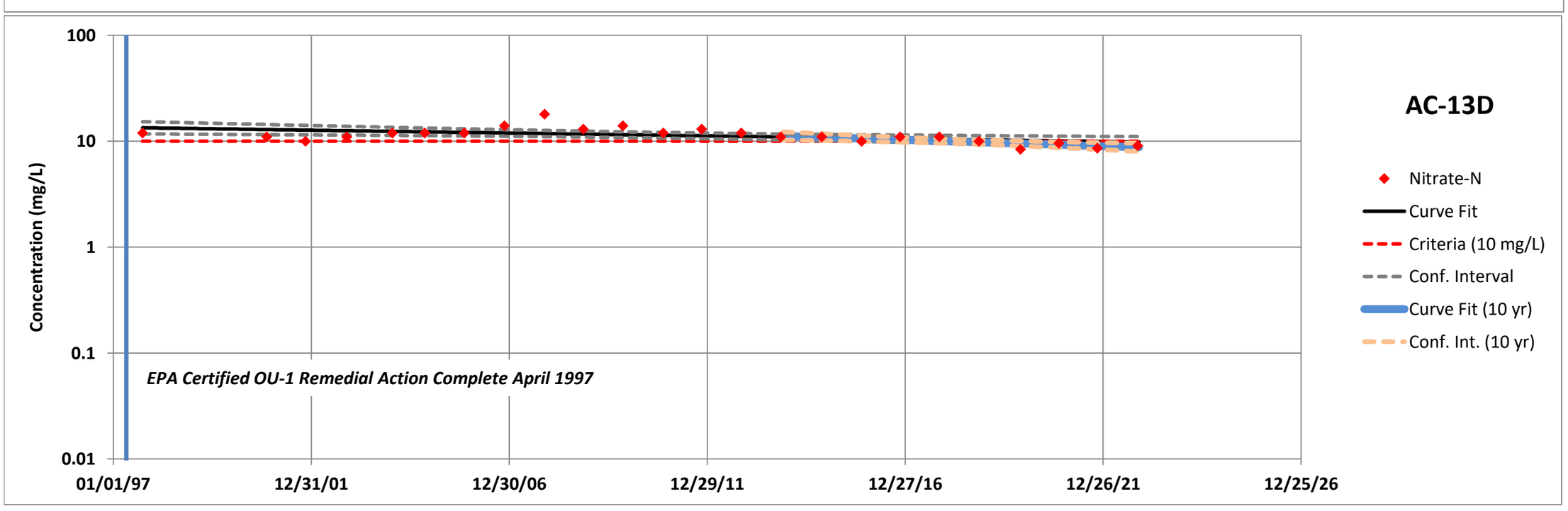
Figure 11 (Continued)

Concentration Trends
Main Producing Zone
Annual Network Wells

Agrico Site
Pensacola, Florida







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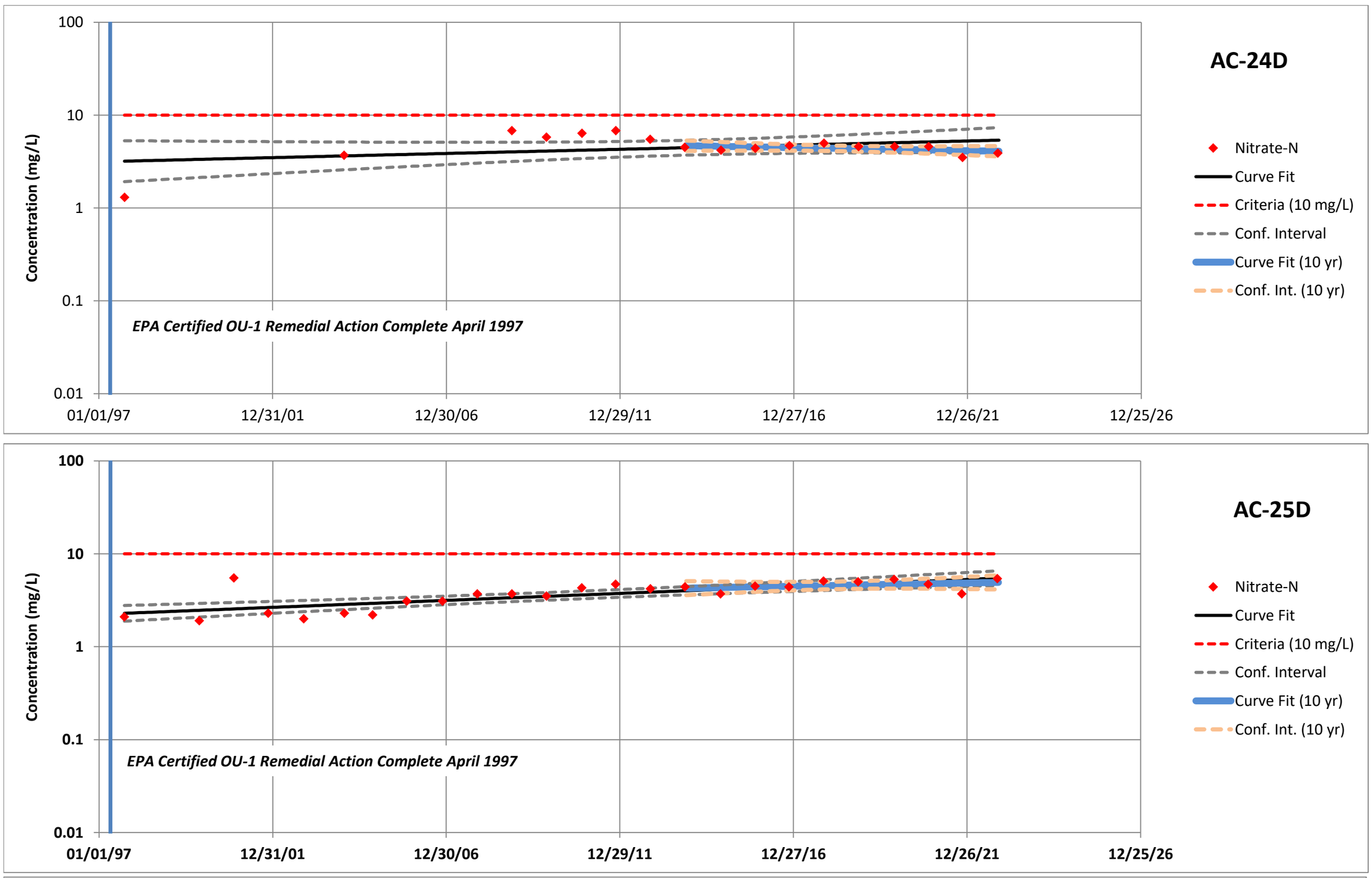
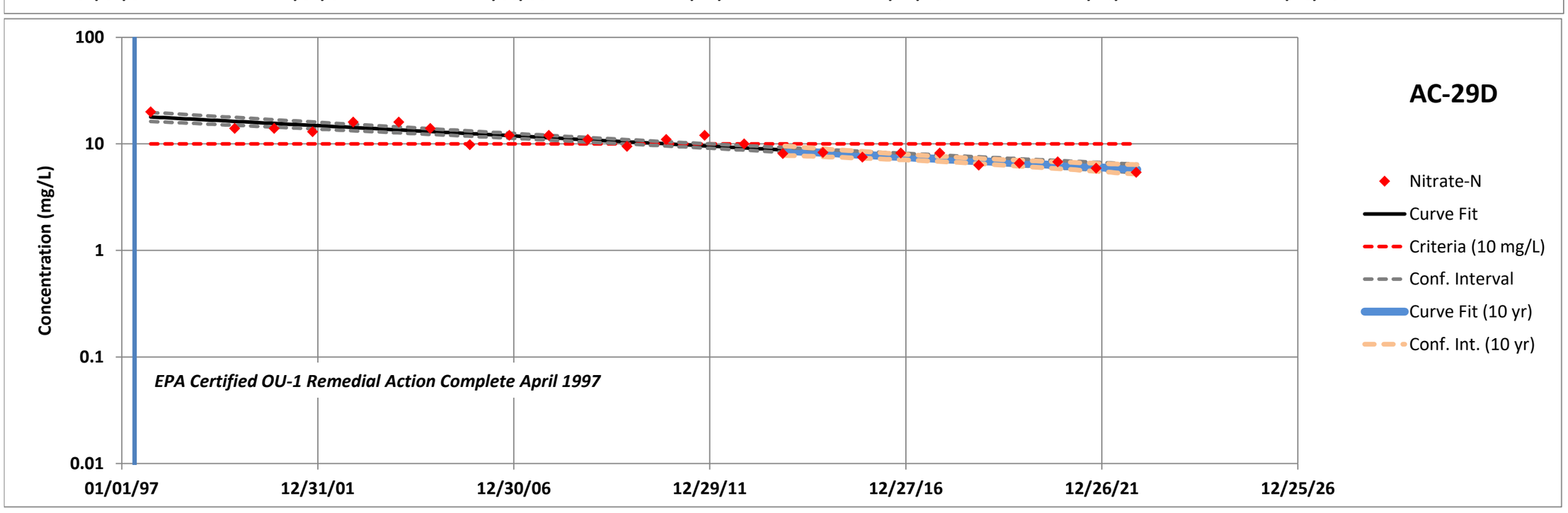
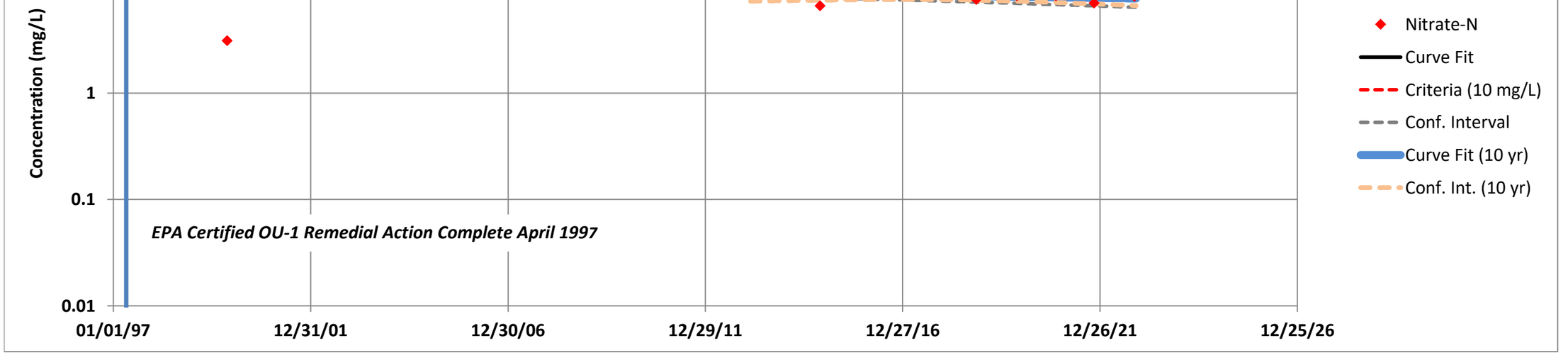
Concentration Trends
Main Producing Zone
Annual Network Wells

Agrico Site
Pensacola, Florida







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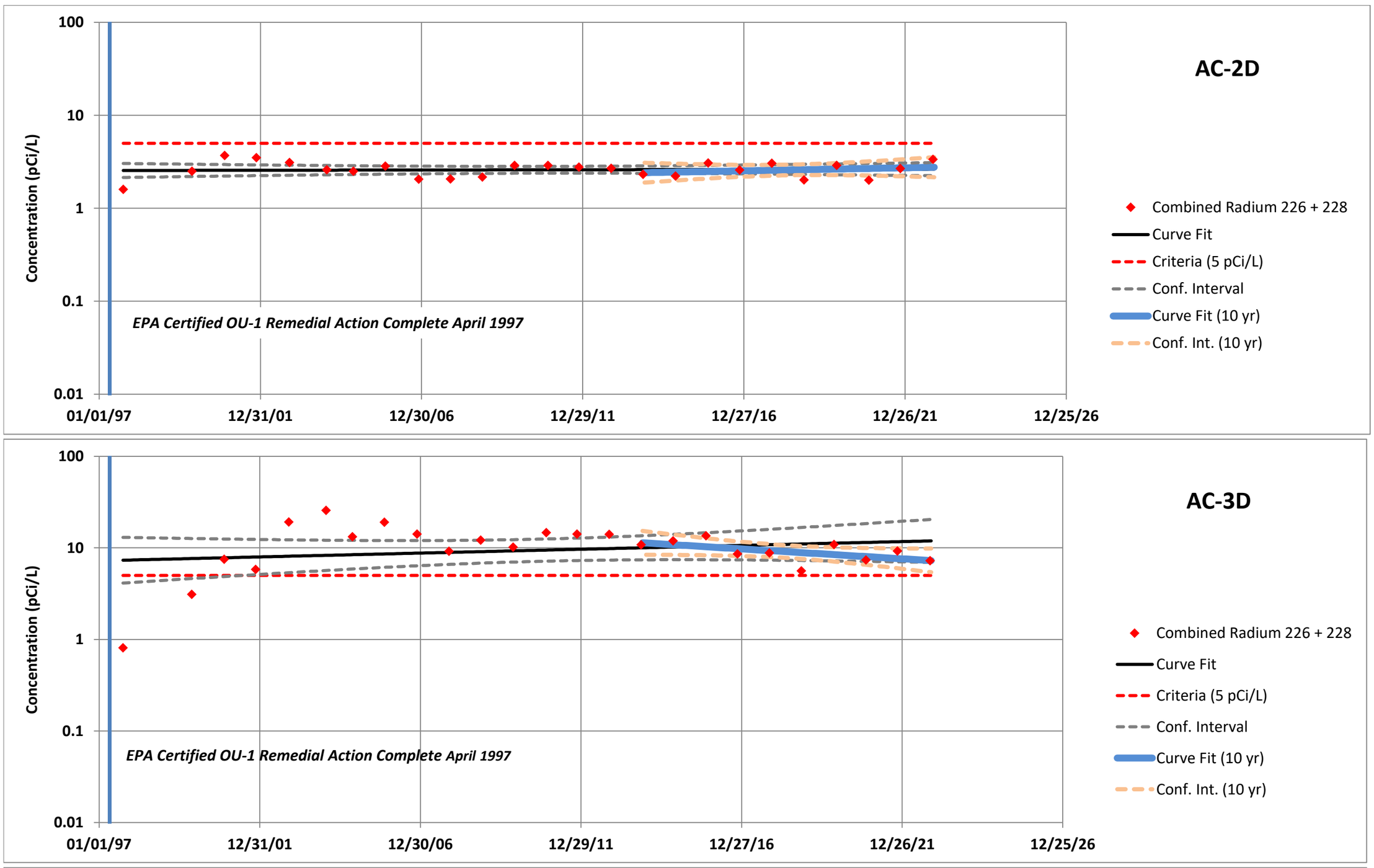
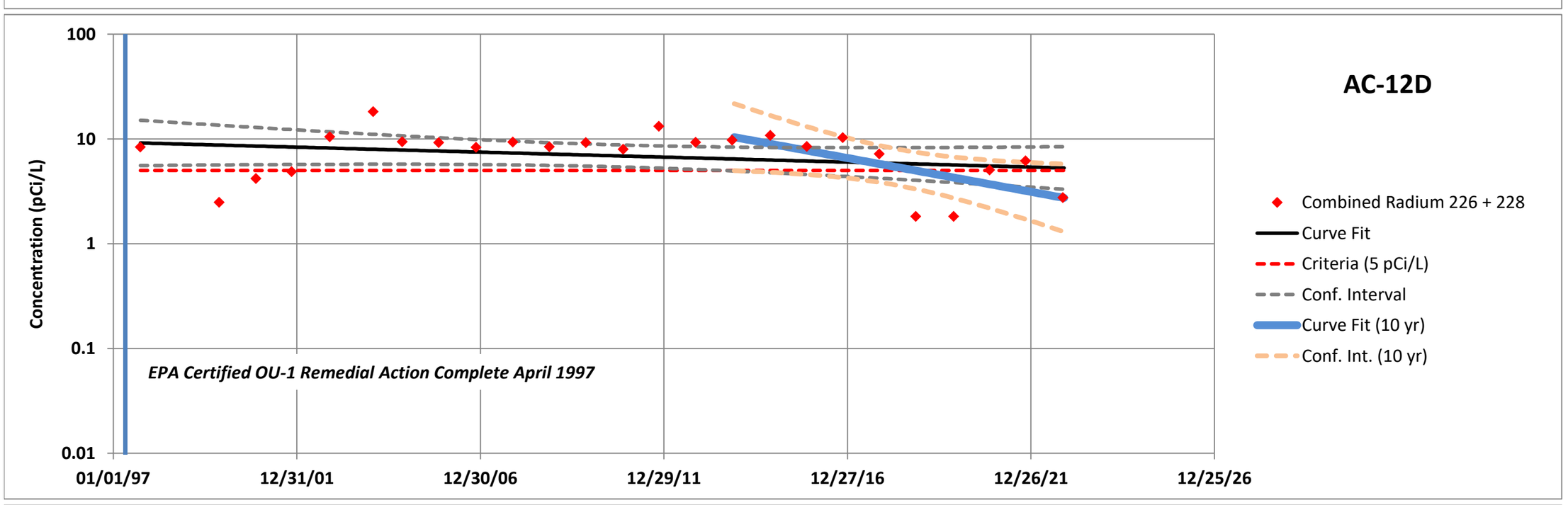
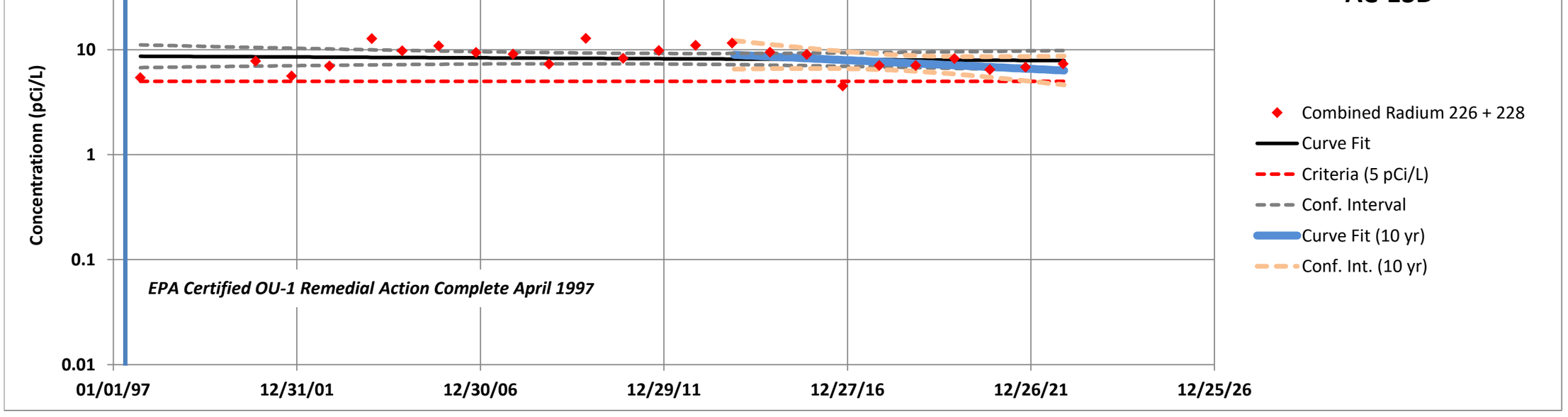
Concentration Trends
Main Producing Zone
Annual Network Wells

Agrico Site
Pensacola, Florida







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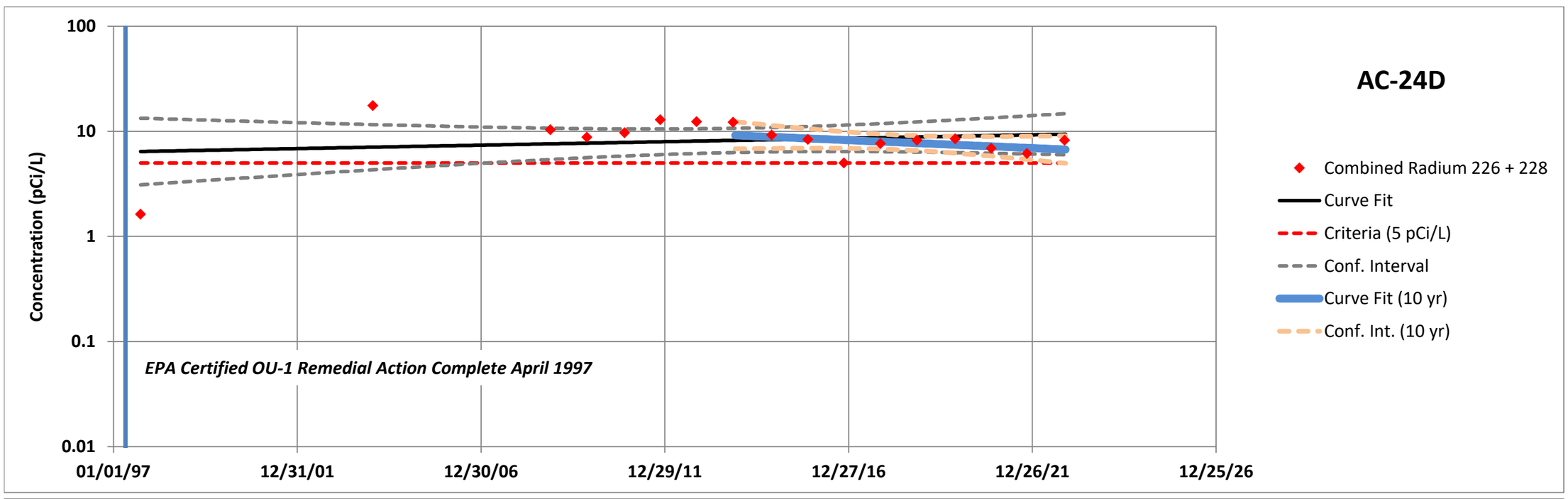
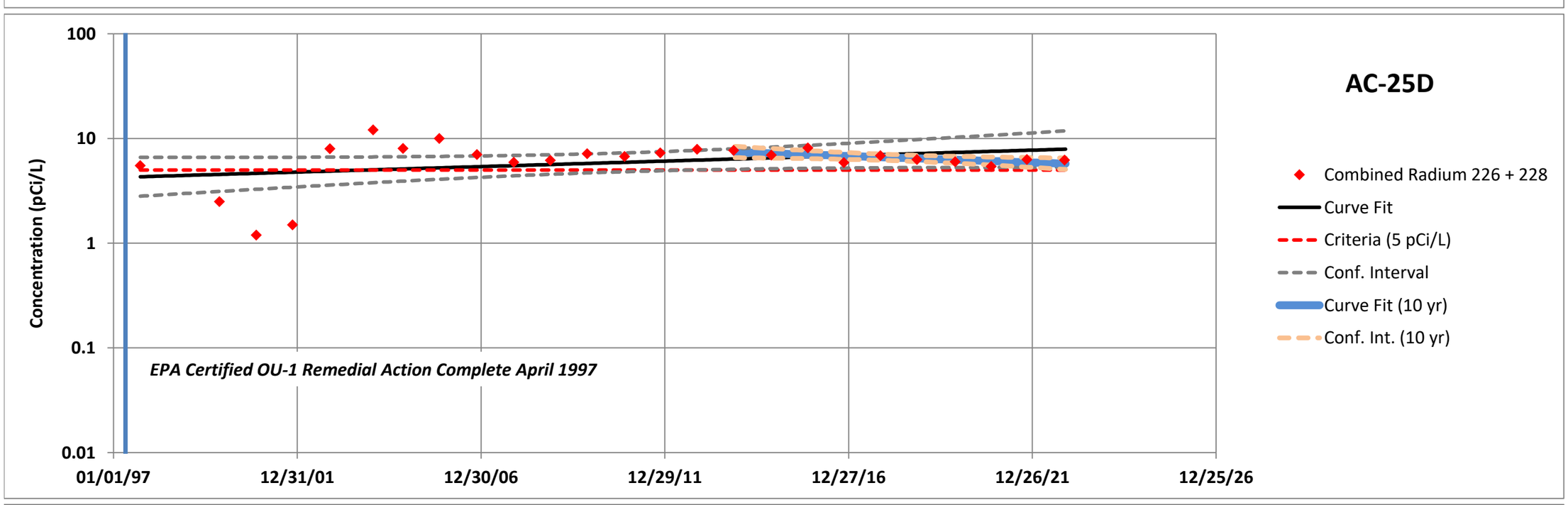
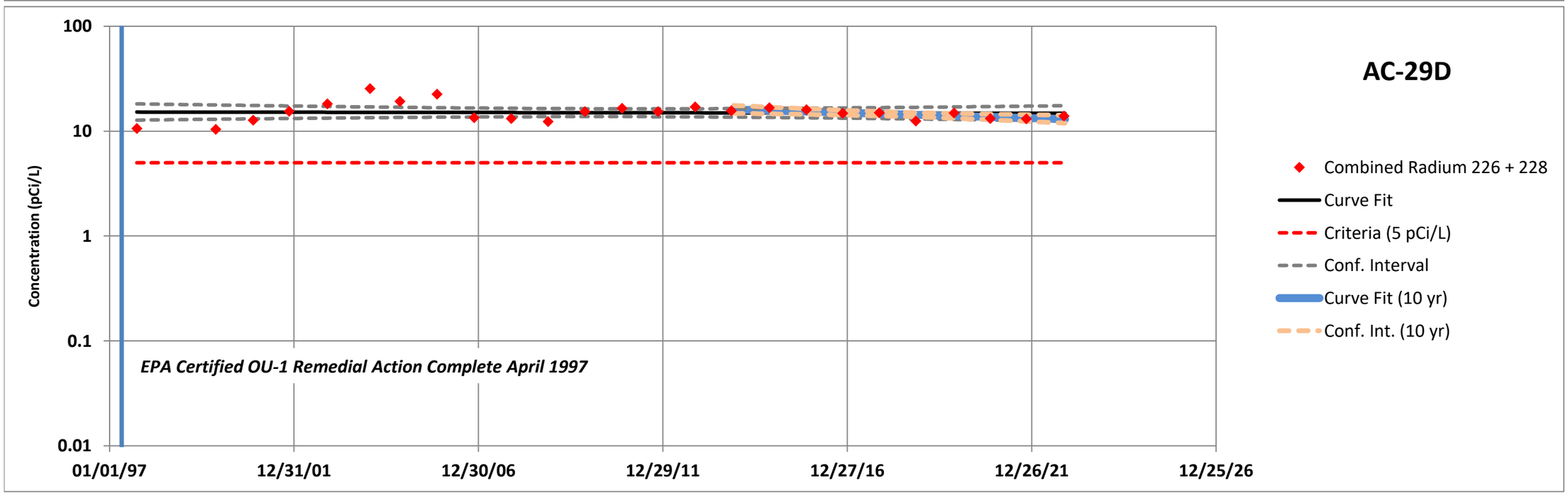
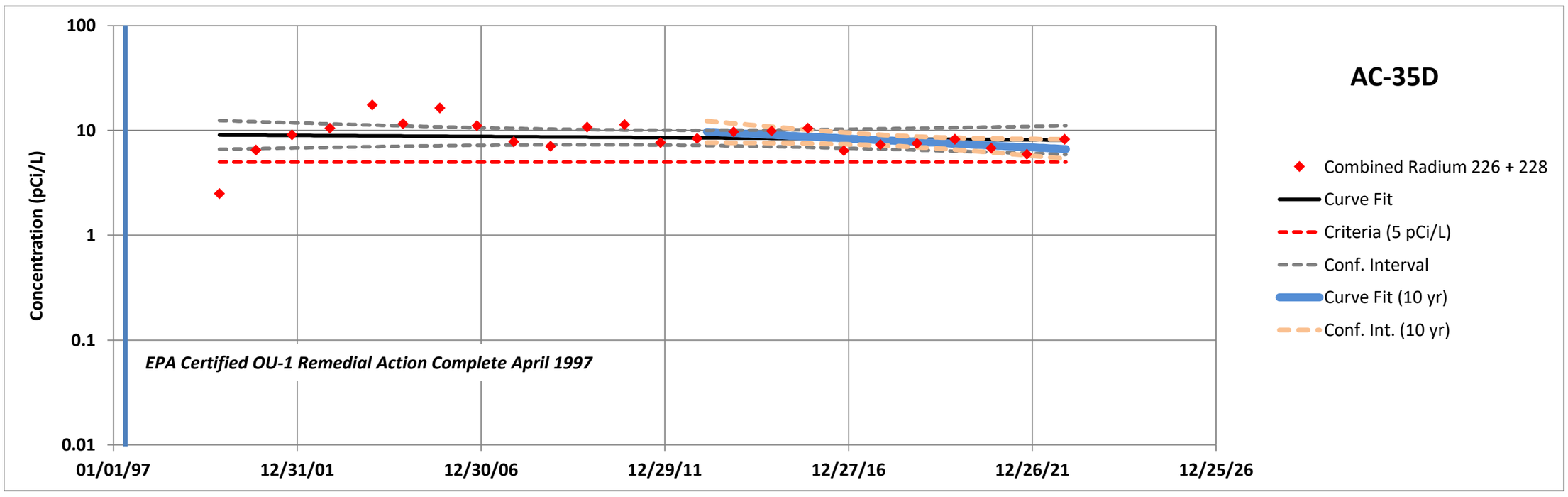
Concentration Trends
Main Producing Zone
Annual Network Wells

Agrico Site
Pensacola, Florida









APPENDIX A

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Amy Mixon
AECOM
1625 Summit Lake Drive
Suite 200
Tallahassee, Florida 32317

Generated 12/29/2022 4:36:01 PM

JOB DESCRIPTION

Agrico Pensacola - Annual GW

JOB NUMBER

400-228565-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
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Authorized for release by
Noel Savoie, Project Manager I
Noel.Savoie@et.eurofinsus.com
(850)254-0107

Table of Contents

Job ID: 400-228565-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-228565-1

Comments
No additional comments.

Receipt
The samples were received on 11/8/2022 4:12 PM, 11/9/2022 3:42 PM and 11/10/2022 4:14 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 4.6º C, 5.5º C, 7.3º C and 8.4º C.

Receipt Exceptions
The MS/MSD sample container did not include the 2 1L Nitric bottles like the parent sample. Since no containers for those methods were not provided those methods were not pulled in for the MS/MSD for samples ACB-31S (400-228565-2[MS]) and ACB-31S (400-228565-2[MSD])

HPLC/IC
Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: AC-35D (400-228770-1), AC-2S (400-228686-1), AC-3D (400-228686-2), AC-25D (400-228770-2), AC-13D (400-228770-3), AC-24D (400-228770-4) and AC-29D (400-228770-5). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were rerun due to not matching historical results: AC-12D (400-228636-3), AC-25D (400-228770-2), and AC-24D (400-228770-4). Rerun confirms original results.

Method 300.0: The continuing calibration verification (CCV) associated with batch 400-600520 recovered above the upper control limit for Sulfate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 300.0: The matrix spike (MS) recoveries for analytical batch 400-600800 were outside advisory control limits for Sulfate. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

RAD
Method 903.0: Radium-226 batch 589928
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. EQ-1 (400-228565-1), ACB-31S (400-228565-2), AC-2D (400-228565-3), DUP-1 (400-228565-4), AC-2S (400-228686-1), AC-2S (400-228686-1[MS]), AC-2S (400-228686-1[MSD]), AC-3D (400-228686-2), AC-12D (400-228686-3), (LCS 160-589928/2-A) and (MB 160-589928/1-A)

Method 903.0: Radium-226 batch 590394
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date AC-35D (400-228770-1), AC-25D (400-228770-2), AC-13D (400-228770-3), AC-24D (400-228770-4), AC-29D (400-228770-5), (LCS 160-590394/2-A), (MB 160-590394/1-A), (180-147725-A-1-A) and (180-147725-A-1-B DU)

Method 904.0: Radium-228 batch 589930
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. EQ-1 (400-228565-1), ACB-31S (400-228565-2), AC-2D (400-228565-3), DUP-1 (400-228565-4), AC-2S (400-228686-1), AC-2S (400-228686-1[MS]), AC-2S (400-228686-1[MSD]), AC-3D (400-228686-2), AC-12D (400-228686-3), (LCS 160-589930/2-A) and (MB 160-589930/1-B)

Method 904.0: Radium-228 prep batch 160-590396:

Job ID: 400-228565-1 (Continued)

Laboratory: Eurofins Pensacola (Continued)

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.AC-35D (400-228770-1), AC-25D (400-228770-2), AC-13D (400-228770-3), AC-24D (400-228770-4), AC-29D (400-228770-5), (LCS 160-590396/2-A), (MB 160-590396/1-A), (180-147725-A-1-C) and (180-147725-A-1-D DU)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method SM4500 F C: The following sample was rerun due to not matching historical results: AC-12D (400-228636-3). Both results have been reported.

Method 353.2: The following samples were diluted to bring the concentration of target analytes within the calibration range: AC-2S (400-228686-1), AC-3D (400-228686-2) and AC-12D (400-228686-3). Elevated reporting limits (RLs) are provided.

Method 353.2: The following samples were rerun outside of holding time due to not matching historical results: AC-35D (400-228770-1) and AC-25D (400+228770-2). Rerun matched historicals and have been reported.

Method 353.2: The matrix spike/matrix spike duplicate (MS/MSD) %RPD for analytical batch 400-602365 was outside advisory control limits for Nitrate-Nitrite. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: AECOM
Job ID: 400-228565-1
Project/Site: Agrico Pensacola - Annual GW

Client Sample ID: EQ-1 — Lab Sample ID: 400-228565-1

No Detections.

Client Sample ID: ACB-31S — Lab Sample ID: 400-228565-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.8		1.0		mg/L	1		300.0	Total/NA
Sulfate	37	F1	1.0		mg/L	1		300.0	Total/NA
Fluoride	0.13		0.10		mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AC-2D — Lab Sample ID: 400-228565-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.5		1.0		mg/L	1		300.0	Total/NA
Sulfate	24		1.0		mg/L	1		300.0	Total/NA
Fluoride	2.9		0.10		mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: DUP-1 — Lab Sample ID: 400-228565-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.5		1.0		mg/L	1		300.0	Total/NA
Sulfate	22		1.0		mg/L	1		300.0	Total/NA
Fluoride	2.9		0.10		mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AC-2S — Lab Sample ID: 400-228686-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.9		1.0		mg/L	1		300.0	Total/NA
Sulfate	87		5.0		mg/L	5		300.0	Total/NA
Arsenic	0.021		0.010		mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	2.3		0.10		mg/L	2		353.2	Total/NA
Nitrate as N	2.3		0.050		mg/L	1		Nitrate by calc	Total/NA
Fluoride	37		0.40		mg/L	4		SM 4500 F C	Total/NA

Client Sample ID: AC-3D — Lab Sample ID: 400-228686-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.6		1.0		mg/L	1		300.0	Total/NA
Sulfate	84		5.0		mg/L	5		300.0	Total/NA
Nitrate Nitrite as N	3.6		0.10		mg/L	2		353.2	Total/NA
Nitrate as N	3.6		0.050		mg/L	1		Nitrate by calc	Total/NA
Fluoride	5.6		0.10		mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AC-12D — Lab Sample ID: 400-228686-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11		1.0		mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	6.7		0.50		mg/L	10		353.2	Total/NA
Nitrate as N	6.7		0.050		mg/L	1		Nitrate by calc	Total/NA

Client Sample ID: AC-35D — Lab Sample ID: 400-228770-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	200		5.0		mg/L	5		300.0	Total/NA
Sulfate	200		5.0		mg/L	5		300.0	Total/NA
Nitrate Nitrite as N	8.1	H	0.25		mg/L	5		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Client Sample ID: AC-35D (Continued) — Lab Sample ID: 400-228770-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	8.1	H	0.050		mg/L	1		Nitrate by calc	Total/NA
Fluoride	72		1.0		mg/L	10		SM 4500 F C	Total/NA

Client Sample ID: AC-25D — Lab Sample ID: 400-228770-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	76		5.0		mg/L	5		300.0	Total/NA
Sulfate	120		5.0		mg/L	5		300.0	Total/NA
Nitrate Nitrite as N	5.4	H	0.25		mg/L	5		353.2	Total/NA
Nitrate as N	5.4	H	0.050		mg/L	1		Nitrate by calc	Total/NA
Fluoride	59		1.0		mg/L	10		SM 4500 F C	Total/NA

Client Sample ID: AC-13D — Lab Sample ID: 400-228770-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	18		1.0		mg/L	1		300.0	Total/NA
Sulfate	200		10		mg/L	10		300.0	Total/NA
Nitrate Nitrite as N	9.1		0.50		mg/L	10		353.2	Total/NA
Nitrate as N	9.1		0.050		mg/L	1		Nitrate by calc	Total/NA
Fluoride	4.5		0.10		mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AC-24D — Lab Sample ID: 400-228770-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	36		1.0		mg/L	1		300.0	Total/NA
Sulfate	68		5.0		mg/L	5		300.0	Total/NA
Nitrate Nitrite as N	3.9		0.25		mg/L	5		353.2	Total/NA
Nitrate as N	3.9		0.050		mg/L	1		Nitrate by calc	Total/NA
Fluoride	27		0.40		mg/L	4		SM 4500 F C	Total/NA

Client Sample ID: AC-29D — Lab Sample ID: 400-228770-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	28		1.0		mg/L	1		300.0	Total/NA
Sulfate	180		10		mg/L	10		300.0	Total/NA
Nitrate Nitrite as N	5.4		0.25		mg/L	5		353.2	Total/NA
Nitrate as N	5.4		0.050		mg/L	1		Nitrate by calc	Total/NA
Fluoride	29		0.40		mg/L	4		SM 4500 F C	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: AECOM
Job ID: 400-228565-1
Project/Site: Agrico Pensacola - Annual GW

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-228565-1	EQ-1	Water	11/08/22 10:20	11/08/22 16:12
400-228565-2	ACB-31S	Water	11/08/22 12:20	11/08/22 16:12
400-228565-3	AC-2D	Water	11/08/22 15:18	11/08/22 16:12
400-228565-4	DUP-1	Water	11/08/22 12:00	11/08/22 16:12
400-228686-1	AC-2S	Water	11/09/22 10:47	11/09/22 15:42
400-228686-2	AC-3D	Water	11/09/22 13:00	11/09/22 15:42
400-228686-3	AC-12D	Water	11/09/22 14:34	11/09/22 15:42
400-228770-1	AC-35D	Water	11/10/22 08:41	11/10/22 16:14
400-228770-2	AC-25D	Water	11/10/22 10:14	11/10/22 16:14
400-228770-3	AC-13D	Water	11/10/22 12:26	11/10/22 16:14
400-228770-4	AC-24D	Water	11/10/22 14:03	11/10/22 16:14
400-228770-5	AC-29D	Water	11/10/22 15:30	11/10/22 16:14

Client Sample ID: EQ-1
Lab Sample ID: 400-228565-1

Date Collected: 11/08/22 10:20
Matrix: Water

Date Received: 11/08/22 16:12

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0		mg/L			11/14/22 17:47	1
Sulfate	<1.0		1.0		mg/L			11/14/22 17:47	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.010		mg/L		11/12/22 12:43	11/13/22 14:00	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (MCAWW 353.2)	<0.050		0.050		mg/L			11/23/22 17:31	1
Nitrate as N (SM Nitrate by calc)	<0.050		0.050		mg/L			11/09/22 10:17	1
Fluoride (SM 4500 F C)	<0.10		0.10		mg/L			11/11/22 16:01	1
Nitrite as N (SM 4500 NO2 B)	<0.10		0.10		mg/L			11/09/22 10:17	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	6.08E-2	U	1.01E-1	1.01E-1	1.00E+0	1.75E-1	pCi/L	11/14/22 10:35	12/06/22 09:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*8.26E+1*		*40 - 110*	*11/14/22 10:35*	*12/06/22 09:28*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.28E-1	U	3.52E-1	3.53E-1	1.00E+0	5.72E-1	pCi/L	11/14/22 11:06	12/02/22 11:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*8.26E+1*		*40 - 110*	*11/14/22 11:06*	*12/02/22 11:09*	*1*
Y Carrier	*8.26E+1*		*40 - 110*	*11/14/22 11:06*	*12/02/22 11:09*	*1*

Client: AECOM
Job ID: 400-228565-1
Project/Site: Agrico Pensacola - Annual GW

Client Sample ID: ACB-31S
Lab Sample ID: 400-228565-2

Date Collected: 11/08/22 12:20
Matrix: Water

Date Received: 11/08/22 16:12

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.8**		1.0		mg/L			11/14/22 16:45	1
Sulfate	**37**	**F1**	1.0		mg/L			11/15/22 16:55	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (MCAWW 353.2)	<0.050	F2	0.050		mg/L			11/23/22 17:25	1
Nitrate as N (SM Nitrate by calc)	<0.050		0.050		mg/L			11/09/22 10:12	1
Fluoride (SM 4500 F C)	**0.13**		0.10		mg/L			11/11/22 16:15	1
Nitrite as N (SM 4500 NO2 B)	<0.10		0.10		mg/L			11/09/22 10:12	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**3.17E-1**		1.40E-1	1.43E-1	1.00E+0	1.60E-1	pCi/L	11/14/22 10:35	12/06/22 09:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*8.41E+1*		*40 - 110*	*11/14/22 10:35*	*12/06/22 09:28*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**3.57E+0**		6.58E-1	7.36E-1	1.00E+0	5.79E-1	pCi/L	11/14/22 11:06	12/02/22 11:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*8.41E+1*		*40 - 110*	*11/14/22 11:06*	*12/02/22 11:10*	*1*
Y Carrier	*8.41E+1*		*40 - 110*	*11/14/22 11:06*	*12/02/22 11:10*	*1*

Client: AECOM
Job ID: 400-228565-1
Project/Site: Agrico Pensacola - Annual GW

Client Sample ID: AC-2D
Lab Sample ID: 400-228565-3
Date Collected: 11/08/22 15:18
Matrix: Water
Date Received: 11/08/22 16:12

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.5**		1.0		mg/L			11/14/22 18:08	1
Sulfate	**24**		1.0		mg/L			11/16/22 19:20	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (MCAWW 353.2)	<0.050		0.050		mg/L			11/23/22 17:32	1
Nitrate as N (SM Nitrate by calc)	<0.050		0.050		mg/L			11/09/22 10:23	1
Fluoride (SM 4500 F C)	**2.9**		0.10		mg/L			11/11/22 16:04	1
Nitrite as N (SM 4500 NO2 B)	<0.10		0.10		mg/L			11/09/22 10:23	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.02E+0**		2.18E-1	2.37E-1	1.00E+0	1.52E-1	pCi/L	11/14/22 10:35	12/06/22 09:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*8.55E+1*		*40 - 110*	*11/14/22 10:35*	*12/06/22 09:28*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**2.35E+0**		5.36E-1	5.78E-1	1.00E+0	4.73E-1	pCi/L	11/14/22 11:06	12/02/22 11:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*8.55E+1*		*40 - 110*	*11/14/22 11:06*	*12/02/22 11:10*	*1*
Y Carrier	*8.19E+1*		*40 - 110*	*11/14/22 11:06*	*12/02/22 11:10*	*1*

Client: AECOM
Job ID: 400-228565-1
Project/Site: Agrico Pensacola - Annual GW

Client Sample ID: DUP-1
Lab Sample ID: 400-228565-4
Date Collected: 11/08/22 12:00
Matrix: Water
Date Received: 11/08/22 16:12

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.5**		1.0		mg/L			11/14/22 19:11	1
Sulfate	**22**		1.0		mg/L			11/15/22 18:18	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (MCAWW 353.2)	<0.050		0.050		mg/L			11/23/22 17:34	1
Nitrate as N (SM Nitrate by calc)	<0.050		0.050		mg/L			11/09/22 10:24	1
Fluoride (SM 4500 F C)	**2.9**		0.10		mg/L			11/11/22 16:06	1
Nitrite as N (SM 4500 NO2 B)	<0.10		0.10		mg/L			11/09/22 10:24	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**9.52E-1**		2.32E-1	2.47E-1	1.00E+0	2.00E-1	pCi/L	11/14/22 10:35	12/06/22 09:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*7.83E+1*		*40 - 110*	*11/14/22 10:35*	*12/06/22 09:28*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**2.73E+0**		6.42E-1	6.89E-1	1.00E+0	6.80E-1	pCi/L	11/14/22 11:06	12/02/22 11:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*7.83E+1*		*40 - 110*	*11/14/22 11:06*	*12/02/22 11:11*	*1*
Y Carrier	*8.41E+1*		*40 - 110*	*11/14/22 11:06*	*12/02/22 11:11*	*1*

Client Sample ID: AC-2S
Lab Sample ID: 400-228686-1

Date Collected: 11/09/22 10:47
Matrix: Water

Date Received: 11/09/22 15:42

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.9**		1.0		mg/L			11/15/22 04:33	1
Sulfate	**87**		5.0		mg/L			11/15/22 22:28	5

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.021**		0.010		mg/L		11/12/22 12:43	11/13/22 14:12	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (MCAWW 353.2)	**2.3**		0.10		mg/L			11/22/22 18:48	2
Nitrate as N (SM Nitrate by calc)	**2.3**		0.050		mg/L			11/10/22 10:43	1
Fluoride (SM 4500 F C)	**37**		0.40		mg/L			11/16/22 11:25	4
Nitrite as N (SM 4500 NO2 B)	<0.10		0.10		mg/L			11/10/22 10:43	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.34E-1	U	1.13E-1	1.14E-1	1.00E+0	1.71E-1	pCi/L	11/14/22 10:35	12/06/22 09:29	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*8.53E+1*		*40 - 110*	*11/14/22 10:35*	*12/06/22 09:29*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**9.53E-1**		4.25E-1	4.34E-1	1.00E+0	5.68E-1	pCi/L	11/14/22 11:06	12/02/22 11:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*8.53E+1*		*40 - 110*	*11/14/22 11:06*	*12/02/22 11:11*	*1*
Y Carrier	*8.34E+1*		*40 - 110*	*11/14/22 11:06*	*12/02/22 11:11*	*1*

Client Sample ID: AC-3D
Lab Sample ID: 400-228686-2
Date Collected: 11/09/22 13:00
Matrix: Water
Date Received: 11/09/22 15:42

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.6		1.0		mg/L			11/15/22 04:54	1
Sulfate	84		5.0		mg/L			11/15/22 22:49	5

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (MCAWW 353.2)	3.6		0.10		mg/L			11/22/22 18:48	2
Nitrate as N (SM Nitrate by calc)	3.6		0.050		mg/L			11/10/22 10:44	1
Fluoride (SM 4500 F C)	5.6		0.10		mg/L			11/11/22 16:15	1
Nitrite as N (SM 4500 NO2 B)	<0.10		0.10		mg/L			11/10/22 10:44	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	8.91E-1		2.08E-1	2.23E-1	1.00E+0	1.56E-1	pCi/L	11/14/22 10:35	12/06/22 12:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*8.41E+1*		*40 - 110*	*11/14/22 10:35*	*12/06/22 12:28*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.32E+0		9.02E-1	1.07E+0	1.00E+0	7.45E-1	pCi/L	11/14/22 11:06	12/02/22 11:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*8.41E+1*		*40 - 110*	*11/14/22 11:06*	*12/02/22 11:19*	*1*
Y Carrier	*8.00E+1*		*40 - 110*	*11/14/22 11:06*	*12/02/22 11:19*	*1*

Client: AECOM
Job ID: 400-228565-1
Project/Site: Agrico Pensacola - Annual GW

Client Sample ID: AC-12D
Lab Sample ID: 400-228686-3
Date Collected: 11/09/22 14:34
Matrix: Water
Date Received: 11/09/22 15:42

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11**		1.0		mg/L			11/15/22 05:15	1
Sulfate	<1.0		1.0		mg/L			11/15/22 05:15	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (MCAWW 353.2)	**6.7**		0.50		mg/L			11/22/22 19:58	10
Nitrate as N (SM Nitrate by calc)	**6.7**		0.050		mg/L			11/10/22 10:41	1
Fluoride (SM 4500 F C)	<0.10		0.10		mg/L			11/11/22 16:15	1
Fluoride (SM 4500 F C)	<0.10	H	0.10		mg/L			12/27/22 17:39	1
Nitrite as N (SM 4500 NO2 B)	<0.10		0.10		mg/L			11/10/22 10:41	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**9.57E-1**		2.21E-1	2.37E-1	1.00E+0	1.64E-1	pCi/L	11/14/22 10:35	12/06/22 12:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*7.68E+1*		*40 - 110*	*11/14/22 10:35*	*12/06/22 12:28*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.81E+0**		5.31E-1	5.56E-1	1.00E+0	5.79E-1	pCi/L	11/14/22 11:06	12/02/22 11:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*7.68E+1*		*40 - 110*	*11/14/22 11:06*	*12/02/22 11:19*	*1*
Y Carrier	*8.71E+1*		*40 - 110*	*11/14/22 11:06*	*12/02/22 11:19*	*1*

Client Sample ID: AC-35D
Lab Sample ID: 400-228770-1
Date Collected: 11/10/22 08:41
Matrix: Water
Date Received: 11/10/22 16:14

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		5.0		mg/L			11/15/22 06:59	5
Sulfate	**200**		5.0		mg/L			11/15/22 06:59	5

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (MCAWW 353.2)	<0.050		0.050		mg/L			11/23/22 17:36	1
Nitrate Nitrite as N (MCAWW 353.2)	**8.1**	**H**	0.25		mg/L			12/20/22 19:52	5
Nitrate as N (SM Nitrate by calc)	**8.1**	**H**	0.050		mg/L			11/11/22 11:03	1
Fluoride (SM 4500 F C)	**72**		1.0		mg/L			11/16/22 11:28	10
Nitrite as N (SM 4500 NO2 B)	<0.10		0.10		mg/L			11/11/22 11:03	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.39E+0**		4.14E-1	4.33E-1	1.00E+0	4.17E-1	pCi/L	11/17/22 09:40	12/09/22 16:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*9.30E+1*		*40 - 110*	*11/17/22 09:40*	*12/09/22 16:52*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**6.86E+0**		8.30E-1	1.04E+0	1.00E+0	5.15E-1	pCi/L	11/17/22 10:15	12/09/22 12:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*9.30E+1*		*40 - 110*	*11/17/22 10:15*	*12/09/22 12:18*	*1*
Y Carrier	*8.15E+1*		*40 - 110*	*11/17/22 10:15*	*12/09/22 12:18*	*1*

Client: AECOM
Job ID: 400-228565-1
Project/Site: Agrico Pensacola - Annual GW

Client Sample ID: AC-25D
Lab Sample ID: 400-228770-2
Date Collected: 11/10/22 10:14
Matrix: Water
Date Received: 11/10/22 16:14

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**76**		5.0		mg/L			11/15/22 23:10	5
Sulfate	**120**		5.0		mg/L			11/15/22 23:10	5

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (MCAWW 353.2)	<0.050		0.050		mg/L			11/23/22 17:38	1
Nitrate Nitrite as N (MCAWW 353.2)	**5.4**	**H**	0.25		mg/L			12/20/22 21:21	5
Nitrate as N (SM Nitrate by calc)	**5.4**	**H**	0.050		mg/L			11/11/22 11:05	1
Fluoride (SM 4500 F C)	**59**		1.0		mg/L			11/16/22 11:31	10
Nitrite as N (SM 4500 NO2 B)	<0.10		0.10		mg/L			11/11/22 11:05	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.33E+0**		3.71E-1	3.90E-1	1.00E+0	2.95E-1	pCi/L	11/17/22 09:40	12/09/22 16:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*9.44E+1*		*40 - 110*	*11/17/22 09:40*	*12/09/22 16:52*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**4.91E+0**		7.41E-1	8.67E-1	1.00E+0	5.88E-1	pCi/L	11/17/22 10:15	12/09/22 12:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*9.44E+1*		*40 - 110*	*11/17/22 10:15*	*12/09/22 12:18*	*1*
Y Carrier	*8.04E+1*		*40 - 110*	*11/17/22 10:15*	*12/09/22 12:18*	*1*

Client: AECOM
Job ID: 400-228565-1
Project/Site: Agrico Pensacola - Annual GW

Client Sample ID: AC-13D
Lab Sample ID: 400-228770-3

Date Collected: 11/10/22 12:26
Matrix: Water

Date Received: 11/10/22 16:14

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18**		1.0		mg/L			11/15/22 07:40	1
Sulfate	**200**		10		mg/L			11/16/22 00:33	10

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (MCAWW 353.2)	**9.1**		0.50		mg/L			11/23/22 19:36	10
Nitrate as N (SM Nitrate by calc)	**9.1**		0.050		mg/L			11/11/22 11:05	1
Fluoride (SM 4500 F C)	**4.5**		0.10		mg/L			11/11/22 16:26	1
Nitrite as N (SM 4500 NO2 B)	<0.10		0.10		mg/L			11/11/22 11:05	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.74E+0**		4.32E-1	4.59E-1	1.00E+0	3.29E-1	pCi/L	11/17/22 09:40	12/09/22 16:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*9.13E+1*		*40 - 110*	*11/17/22 09:40*	*12/09/22 16:52*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**5.57E+0**		7.61E-1	9.17E-1	1.00E+0	5.22E-1	pCi/L	11/17/22 10:15	12/09/22 12:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*9.13E+1*		*40 - 110*	*11/17/22 10:15*	*12/09/22 12:18*	*1*
Y Carrier	*8.30E+1*		*40 - 110*	*11/17/22 10:15*	*12/09/22 12:18*	*1*

Client: AECOM
Job ID: 400-228565-1
Project/Site: Agrico Pensacola - Annual GW

Client Sample ID: AC-24D
Lab Sample ID: 400-228770-4

Date Collected: 11/10/22 14:03
Matrix: Water
Date Received: 11/10/22 16:14

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36**		1.0		mg/L			11/15/22 08:43	1
Sulfate	**68**		5.0		mg/L			11/16/22 00:12	5

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (MCAWW 353.2)	**3.9**		0.25		mg/L			11/23/22 19:38	5
Nitrate as N (SM Nitrate by calc)	**3.9**		0.050		mg/L			11/11/22 11:06	1
Fluoride (SM 4500 F C)	**27**		0.40		mg/L			11/16/22 11:34	4
Nitrite as N (SM 4500 NO2 B)	<0.10		0.10		mg/L			11/11/22 11:06	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.44E+0**		3.81E-1	4.02E-1	1.00E+0	2.95E-1	pCi/L	11/17/22 09:40	12/09/22 16:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*9.54E+1*		*40 - 110*	*11/17/22 09:40*	*12/09/22 16:52*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**6.82E+0**		8.17E-1	1.03E+0	1.00E+0	4.93E-1	pCi/L	11/17/22 10:15	12/09/22 12:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*9.54E+1*		*40 - 110*	*11/17/22 10:15*	*12/09/22 12:18*	*1*
Y Carrier	*8.15E+1*		*40 - 110*	*11/17/22 10:15*	*12/09/22 12:18*	*1*

Client: AECOM
Job ID: 400-228565-1
Project/Site: Agrico Pensacola - Annual GW

Client Sample ID: AC-29D
Lab Sample ID: 400-228770-5
Date Collected: 11/10/22 15:30
Matrix: Water
Date Received: 11/10/22 16:14

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28		1.0		mg/L			11/15/22 09:04	1
Sulfate	180		10		mg/L			11/16/22 00:54	10

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (MCAWW 353.2)	5.4		0.25		mg/L			11/23/22 19:40	5
Nitrate as N (SM Nitrate by calc)	5.4		0.050		mg/L			11/11/22 11:06	1
Fluoride (SM 4500 F C)	29		0.40		mg/L			11/16/22 11:37	4
Nitrite as N (SM 4500 NO2 B)	<0.10		0.10		mg/L			11/11/22 11:06	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.69E+0		4.27E-1	4.54E-1	1.00E+0	3.29E-1	pCi/L	11/17/22 09:40	12/09/22 16:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*9.01E+1*		*40 - 110*	*11/17/22 09:40*	*12/09/22 16:52*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.22E+1		1.09E+0	1.57E+0	1.00E+0	5.09E-1	pCi/L	11/17/22 10:15	12/09/22 12:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*9.01E+1*		*40 - 110*	*11/17/22 10:15*	*12/09/22 12:19*	*1*
Y Carrier	*8.19E+1*		*40 - 110*	*11/17/22 10:15*	*12/09/22 12:19*	*1*

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

HPLC/IC

Analysis Batch: 600520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228565-1	EQ-1	Total/NA	Water	300.0	
400-228565-2	ACB-31S	Total/NA	Water	300.0	
400-228565-3	AC-2D	Total/NA	Water	300.0	
400-228565-4	DUP-1	Total/NA	Water	300.0	
MB 400-600520/5	Method Blank	Total/NA	Water	300.0	
LCS 400-600520/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-600520/7	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 600590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228686-1	AC-2S	Total/NA	Water	300.0	
400-228686-2	AC-3D	Total/NA	Water	300.0	
400-228686-3	AC-12D	Total/NA	Water	300.0	
400-228770-1	AC-35D	Total/NA	Water	300.0	
400-228770-3	AC-13D	Total/NA	Water	300.0	
400-228770-4	AC-24D	Total/NA	Water	300.0	
400-228770-5	AC-29D	Total/NA	Water	300.0	
MB 400-600590/44	Method Blank	Total/NA	Water	300.0	
LCS 400-600590/45	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-600590/46	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 600800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228565-2	ACB-31S	Total/NA	Water	300.0	
400-228565-4	DUP-1	Total/NA	Water	300.0	
400-228686-1	AC-2S	Total/NA	Water	300.0	
400-228686-2	AC-3D	Total/NA	Water	300.0	
400-228770-2	AC-25D	Total/NA	Water	300.0	
400-228770-3	AC-13D	Total/NA	Water	300.0	
400-228770-4	AC-24D	Total/NA	Water	300.0	
400-228770-5	AC-29D	Total/NA	Water	300.0	
MB 400-600800/5	Method Blank	Total/NA	Water	300.0	
LCS 400-600800/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-600800/7	Lab Control Sample Dup	Total/NA	Water	300.0	
400-228565-2 MS	ACB-31S	Total/NA	Water	300.0	
400-228565-2 MSD	ACB-31S	Total/NA	Water	300.0	

Analysis Batch: 601005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228565-3	AC-2D	Total/NA	Water	300.0	
MB 400-601005/19	Method Blank	Total/NA	Water	300.0	
LCS 400-601005/20	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-601005/21	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 600392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228565-1	EQ-1	Total Recoverable	Water	3005A	
400-228686-1	AC-2S	Total Recoverable	Water	3005A	
MB 400-600392/1-A	Method Blank	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 600392 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-600392/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-228686-1 MS	AC-2S	Total Recoverable	Water	3005A	

Analysis Batch: 600467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228565-1	EQ-1	Total Recoverable	Water	6010D	600392
400-228686-1	AC-2S	Total Recoverable	Water	6010D	600392
MB 400-600392/1-A	Method Blank	Total Recoverable	Water	6010D	600392
LCS 400-600392/2-A	Lab Control Sample	Total Recoverable	Water	6010D	600392
400-228686-1 MS	AC-2S	Total Recoverable	Water	6010D	600392

General Chemistry

Analysis Batch: 599897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228565-1	EQ-1	Total/NA	Water	SM 4500 NO2 B	
400-228565-2	ACB-31S	Total/NA	Water	SM 4500 NO2 B	
400-228565-3	AC-2D	Total/NA	Water	SM 4500 NO2 B	
400-228565-4	DUP-1	Total/NA	Water	SM 4500 NO2 B	
MB 400-599897/13	Method Blank	Total/NA	Water	SM 4500 NO2 B	
LCS 400-599897/14	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
MRL 400-599897/15	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
400-228565-2 MS	ACB-31S	Total/NA	Water	SM 4500 NO2 B	
400-228565-2 MSD	ACB-31S	Total/NA	Water	SM 4500 NO2 B	

Analysis Batch: 600053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228686-1	AC-2S	Total/NA	Water	SM 4500 NO2 B	
400-228686-2	AC-3D	Total/NA	Water	SM 4500 NO2 B	
400-228686-3	AC-12D	Total/NA	Water	SM 4500 NO2 B	
MB 400-600053/5	Method Blank	Total/NA	Water	SM 4500 NO2 B	
LCS 400-600053/6	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
MRL 400-600053/7	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
400-228686-3 MS	AC-12D	Total/NA	Water	SM 4500 NO2 B	
400-228686-3 MSD	AC-12D	Total/NA	Water	SM 4500 NO2 B	

Analysis Batch: 600278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228770-1	AC-35D	Total/NA	Water	SM 4500 NO2 B	
400-228770-2	AC-25D	Total/NA	Water	SM 4500 NO2 B	
400-228770-3	AC-13D	Total/NA	Water	SM 4500 NO2 B	
400-228770-4	AC-24D	Total/NA	Water	SM 4500 NO2 B	
400-228770-5	AC-29D	Total/NA	Water	SM 4500 NO2 B	
MB 400-600278/5	Method Blank	Total/NA	Water	SM 4500 NO2 B	
LCS 400-600278/6	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
MRL 400-600278/7	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
400-228770-1 MS	AC-35D	Total/NA	Water	SM 4500 NO2 B	
400-228770-1 MSD	AC-35D	Total/NA	Water	SM 4500 NO2 B	

General Chemistry

Analysis Batch: 600295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228565-1	EQ-1	Total/NA	Water	SM 4500 F C	
400-228565-3	AC-2D	Total/NA	Water	SM 4500 F C	
400-228565-4	DUP-1	Total/NA	Water	SM 4500 F C	
400-228770-3	AC-13D	Total/NA	Water	SM 4500 F C	
MB 400-600295/1	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-600295/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-600295/3	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 600348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228565-2	ACB-31S	Total/NA	Water	SM 4500 F C	
400-228686-2	AC-3D	Total/NA	Water	SM 4500 F C	
400-228686-3	AC-12D	Total/NA	Water	SM 4500 F C	
MB 400-600348/10	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-600348/13	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-600348/12	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-228565-2 MS	ACB-31S	Total/NA	Water	SM 4500 F C	
400-228565-2 MSD	ACB-31S	Total/NA	Water	SM 4500 F C	

Analysis Batch: 600791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228686-1	AC-2S	Total/NA	Water	SM 4500 F C	
400-228770-1	AC-35D	Total/NA	Water	SM 4500 F C	
400-228770-2	AC-25D	Total/NA	Water	SM 4500 F C	
400-228770-4	AC-24D	Total/NA	Water	SM 4500 F C	
400-228770-5	AC-29D	Total/NA	Water	SM 4500 F C	
MB 400-600791/33	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-600791/36	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-600791/35	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 601168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228565-1	EQ-1	Total/NA	Water	Nitrate by calc	
400-228565-2	ACB-31S	Total/NA	Water	Nitrate by calc	
400-228565-3	AC-2D	Total/NA	Water	Nitrate by calc	
400-228565-4	DUP-1	Total/NA	Water	Nitrate by calc	
400-228565-2 MS	ACB-31S	Total/NA	Water	Nitrate by calc	
400-228565-2 MSD	ACB-31S	Total/NA	Water	Nitrate by calc	

Analysis Batch: 601650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228686-1	AC-2S	Total/NA	Water	Nitrate by calc	
400-228686-2	AC-3D	Total/NA	Water	Nitrate by calc	
400-228686-3	AC-12D	Total/NA	Water	Nitrate by calc	

Analysis Batch: 602151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228686-1	AC-2S	Total/NA	Water	353.2	
400-228686-2	AC-3D	Total/NA	Water	353.2	
400-228686-3	AC-12D	Total/NA	Water	353.2	
MB 400-602151/16	Method Blank	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 602151 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-602151/48	Lab Control Sample	Total/NA	Water	353.2	
MRL 400-602151/18	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 602365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228565-1	EQ-1	Total/NA	Water	353.2	
400-228565-2	ACB-31S	Total/NA	Water	353.2	
400-228565-3	AC-2D	Total/NA	Water	353.2	
400-228565-4	DUP-1	Total/NA	Water	353.2	
400-228770-1	AC-35D	Total/NA	Water	353.2	
400-228770-2	AC-25D	Total/NA	Water	353.2	
400-228770-3	AC-13D	Total/NA	Water	353.2	
400-228770-4	AC-24D	Total/NA	Water	353.2	
400-228770-5	AC-29D	Total/NA	Water	353.2	
MB 400-602365/16	Method Blank	Total/NA	Water	353.2	
LCS 400-602365/17	Lab Control Sample	Total/NA	Water	353.2	
MRL 400-602365/18	Lab Control Sample	Total/NA	Water	353.2	
400-228565-2 MS	ACB-31S	Total/NA	Water	353.2	
400-228565-2 MSD	ACB-31S	Total/NA	Water	353.2	

Analysis Batch: 602459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228770-1	AC-35D	Total/NA	Water	Nitrate by calc	
400-228770-2	AC-25D	Total/NA	Water	Nitrate by calc	
400-228770-3	AC-13D	Total/NA	Water	Nitrate by calc	
400-228770-4	AC-24D	Total/NA	Water	Nitrate by calc	
400-228770-5	AC-29D	Total/NA	Water	Nitrate by calc	

Analysis Batch: 605749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228770-1	AC-35D	Total/NA	Water	353.2	
400-228770-2	AC-25D	Total/NA	Water	353.2	
MB 400-605749/16	Method Blank	Total/NA	Water	353.2	
LCS 400-605749/17	Lab Control Sample	Total/NA	Water	353.2	
MRL 400-605749/18	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 606395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228686-3	AC-12D	Total/NA	Water	SM 4500 F C	
MB 400-606395/10	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-606395/13	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-606395/12	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-228686-3 DU	AC-12D	Total/NA	Water	SM 4500 F C	

Rad

Prep Batch: 589928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228565-1	EQ-1	Total/NA	Water	PrecSep-21	
400-228565-2	ACB-31S	Total/NA	Water	PrecSep-21	
400-228565-3	AC-2D	Total/NA	Water	PrecSep-21	

Rad (Continued)

Prep Batch: 589928 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228565-4	DUP-1	Total/NA	Water	PrecSep-21	
400-228686-1	AC-2S	Total/NA	Water	PrecSep-21	
400-228686-2	AC-3D	Total/NA	Water	PrecSep-21	
400-228686-3	AC-12D	Total/NA	Water	PrecSep-21	
MB 160-589928/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-589928/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-228686-1 MS	AC-2S	Total/NA	Water	PrecSep-21	
400-228686-1 MSD	AC-2S	Total/NA	Water	PrecSep-21	

Prep Batch: 589930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228565-1	EQ-1	Total/NA	Water	PrecSep_0	
400-228565-2	ACB-31S	Total/NA	Water	PrecSep_0	
400-228565-3	AC-2D	Total/NA	Water	PrecSep_0	
400-228565-4	DUP-1	Total/NA	Water	PrecSep_0	
400-228686-1	AC-2S	Total/NA	Water	PrecSep_0	
400-228686-2	AC-3D	Total/NA	Water	PrecSep_0	
400-228686-3	AC-12D	Total/NA	Water	PrecSep_0	
MB 160-589930/1-B	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-589930/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-228686-1 MS	AC-2S	Total/NA	Water	PrecSep_0	
400-228686-1 MSD	AC-2S	Total/NA	Water	PrecSep_0	

Prep Batch: 590394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228770-1	AC-35D	Total/NA	Water	PrecSep-21	
400-228770-2	AC-25D	Total/NA	Water	PrecSep-21	
400-228770-3	AC-13D	Total/NA	Water	PrecSep-21	
400-228770-4	AC-24D	Total/NA	Water	PrecSep-21	
400-228770-5	AC-29D	Total/NA	Water	PrecSep-21	
MB 160-590394/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-590394/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 590396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228770-1	AC-35D	Total/NA	Water	PrecSep_0	
400-228770-2	AC-25D	Total/NA	Water	PrecSep_0	
400-228770-3	AC-13D	Total/NA	Water	PrecSep_0	
400-228770-4	AC-24D	Total/NA	Water	PrecSep_0	
400-228770-5	AC-29D	Total/NA	Water	PrecSep_0	
MB 160-590396/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-590396/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-600520/5
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 600520

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0		mg/L			11/14/22 10:51	1
Sulfate	<1.0		1.0		mg/L			11/14/22 10:51	1

Lab Sample ID: LCS 400-600520/6
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 600520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.7		mg/L		99	90 - 110
Sulfate	20.0	20.4		mg/L		102	90 - 110

Lab Sample ID: LCSD 400-600520/7
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 600520

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.0	19.9		mg/L		99	90 - 110	1	15
Sulfate	20.0	18.9		mg/L		95	90 - 110	7	15

Lab Sample ID: MB 400-600590/44
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 600590

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0		mg/L			11/15/22 00:23	1
Sulfate	<1.0		1.0		mg/L			11/15/22 00:23	1

Lab Sample ID: LCS 400-600590/45
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 600590

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.0		mg/L		100	90 - 110
Sulfate	20.0	20.6		mg/L		103	90 - 110

Lab Sample ID: LCSD 400-600590/46
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 600590

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.0	20.1		mg/L		101	90 - 110	1	15
Sulfate	20.0	20.8		mg/L		104	90 - 110	1	15

Lab Sample ID: MB 400-600800/5
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 600800

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0		mg/L			11/15/22 15:52	1
Sulfate	<1.0		1.0		mg/L			11/15/22 15:52	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 400-600800/6
Matrix: Water
Analysis Batch: 600800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	9.94		mg/L		99	90 - 110		
Sulfate			10.0	10.4		mg/L		104	90 - 110		

Lab Sample ID: LCSD 400-600800/7
Matrix: Water
Analysis Batch: 600800

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	9.85		mg/L		99	90 - 110	1	15
Sulfate			10.0	10.0		mg/L		100	90 - 110	4	15

Lab Sample ID: 400-228565-2 MS
Matrix: Water
Analysis Batch: 600800

Client Sample ID: ACB-31S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	4.9		10.0	15.0		mg/L		102	80 - 120		
Sulfate	37	F1	10.0	49.5	F1	mg/L		123	80 - 120		

Lab Sample ID: 400-228565-2 MSD
Matrix: Water
Analysis Batch: 600800

Client Sample ID: ACB-31S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4.9		10.0	15.1		mg/L		102	80 - 120	0	20
Sulfate	37	F1	10.0	49.2		mg/L		119	80 - 120	1	20

Lab Sample ID: MB 400-601005/19
Matrix: Water
Analysis Batch: 601005

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0		mg/L			11/16/22 17:15	1
Sulfate	<1.0		1.0		mg/L			11/16/22 17:15	1

Lab Sample ID: LCS 400-601005/20
Matrix: Water
Analysis Batch: 601005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	9.95		mg/L		99	90 - 110		
Sulfate			10.0	9.20		mg/L		92	90 - 110		

Lab Sample ID: LCSD 400-601005/21
Matrix: Water
Analysis Batch: 601005

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	9.95		mg/L		100	90 - 110	0	15
Sulfate			10.0	9.20		mg/L		92	90 - 110	0	15

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 400-600392/1-A
Matrix: Water
Analysis Batch: 600467

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 600392

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.010		mg/L		11/12/22 12:43	11/13/22 12:37	1

Lab Sample ID: LCS 400-600392/2-A
Matrix: Water
Analysis Batch: 600467

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 600392

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	0.920		mg/L		92	80 - 120

Lab Sample ID: 400-228686-1 MS
Matrix: Water
Analysis Batch: 600467

Client Sample ID: AC-2S
Prep Type: Total Recoverable
Prep Batch: 600392

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.021		1.00	0.900		mg/L		88	75 - 125

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 400-602151/16
Matrix: Water
Analysis Batch: 602151

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.050		0.050		mg/L			11/22/22 19:55	1

Lab Sample ID: LCS 400-602151/48
Matrix: Water
Analysis Batch: 602151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.500	0.460		mg/L		92	90 - 110

Lab Sample ID: MRL 400-602151/18
Matrix: Water
Analysis Batch: 602151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.0500	0.0520		mg/L		104	50 - 150

Lab Sample ID: MB 400-602365/16
Matrix: Water
Analysis Batch: 602365

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.050		0.050		mg/L			11/23/22 19:32	1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 400-602365/17
Matrix: Water
Analysis Batch: 602365

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.500	0.456		mg/L		91	90 - 110

Lab Sample ID: MRL 400-602365/18
Matrix: Water
Analysis Batch: 602365

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.0500	0.0430	J	mg/L		86	50 - 150

Lab Sample ID: 400-228565-2 MS
Matrix: Water
Analysis Batch: 602365

Client Sample ID: ACB-31S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	<0.050	F2	1.00	0.924		mg/L		92	90 - 110

Lab Sample ID: 400-228565-2 MSD
Matrix: Water
Analysis Batch: 602365

Client Sample ID: ACB-31S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	<0.050	F2	1.00	1.00	F2	mg/L		100	90 - 110	8	4

Lab Sample ID: MB 400-605749/16
Matrix: Water
Analysis Batch: 605749

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.050		0.050		mg/L			12/20/22 18:33	1

Lab Sample ID: LCS 400-605749/17
Matrix: Water
Analysis Batch: 605749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.500	0.468		mg/L		94	90 - 110

Lab Sample ID: MRL 400-605749/18
Matrix: Water
Analysis Batch: 605749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.0500	0.0590		mg/L		118	50 - 150

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-600295/1
Matrix: Water
Analysis Batch: 600295

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			11/11/22 15:01	1

Lab Sample ID: LCS 400-600295/4
Matrix: Water
Analysis Batch: 600295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	5.00	4.92		mg/L		98	90 - 110

Lab Sample ID: MRL 400-600295/3
Matrix: Water
Analysis Batch: 600295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.100	0.105		mg/L		105	

Lab Sample ID: MB 400-600348/10
Matrix: Water
Analysis Batch: 600348

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			11/11/22 16:15	1

Lab Sample ID: LCS 400-600348/13
Matrix: Water
Analysis Batch: 600348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	5.00	4.92		mg/L		98	90 - 110

Lab Sample ID: MRL 400-600348/12
Matrix: Water
Analysis Batch: 600348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.100	0.110		mg/L		110	

Lab Sample ID: 400-228565-2 MS
Matrix: Water
Analysis Batch: 600348

Client Sample ID: ACB-31S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.13		0.100	0.218		mg/L		84	75 - 125

Lab Sample ID: 400-228565-2 MSD
Matrix: Water
Analysis Batch: 600348

Client Sample ID: ACB-31S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.13		0.100	0.218		mg/L		84	75 - 125	0	4

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-600791/33
Matrix: Water
Analysis Batch: 600791

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			11/16/22 12:40	1

Lab Sample ID: LCS 400-600791/36
Matrix: Water
Analysis Batch: 600791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	5.00	5.19		mg/L		104	90 - 110

Lab Sample ID: MRL 400-600791/35
Matrix: Water
Analysis Batch: 600791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.100	0.105		mg/L		105	

Lab Sample ID: MB 400-606395/10
Matrix: Water
Analysis Batch: 606395

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			12/27/22 16:45	1

Lab Sample ID: LCS 400-606395/13
Matrix: Water
Analysis Batch: 606395

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	5.00	5.00		mg/L		100	90 - 110

Lab Sample ID: MRL 400-606395/12
Matrix: Water
Analysis Batch: 606395

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.100	0.0981	J	mg/L		98	

Lab Sample ID: 400-228686-3 DU
Matrix: Water
Analysis Batch: 606395

Client Sample ID: AC-12D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	<0.10	H	<0.10		mg/L		NC	4

Method: SM 4500 NO2 B - Nitrogen, Nitrite

Lab Sample ID: MB 400-599897/13
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 599897

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	<0.10		0.10		mg/L			11/09/22 10:11	1

Lab Sample ID: LCS 400-599897/14
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 599897

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrite as N			0.100	0.100		mg/L		100	90 - 110		

Lab Sample ID: MRL 400-599897/15
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 599897

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrite as N			0.00400	<0.018		mg/L		128	50 - 150		

Lab Sample ID: 400-228565-2 MS
Client Sample ID: ACB-31S
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 599897

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrite as N	<0.10		0.100	<0.10		mg/L		88	80 - 118		

Lab Sample ID: 400-228565-2 MSD
Client Sample ID: ACB-31S
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 599897

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	<0.10		0.100	<0.10		mg/L		91	80 - 118	3	9

Lab Sample ID: MB 400-600053/5
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 600053

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	<0.10		0.10		mg/L			11/10/22 10:40	1

Lab Sample ID: LCS 400-600053/6
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 600053

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrite as N			0.100	0.101		mg/L		101	90 - 110		

Lab Sample ID: MRL 400-600053/7
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 600053

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrite as N			0.00400	<0.018		mg/L		110	50 - 150		

Method: SM 4500 NO2 B - Nitrogen, Nitrite

Lab Sample ID: 400-228686-3 MS
Matrix: Water
Analysis Batch: 600053

Client Sample ID: AC-12D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrite as N	<0.10		0.100	<0.10		mg/L		91	80 - 118		

Lab Sample ID: 400-228686-3 MSD
Matrix: Water
Analysis Batch: 600053

Client Sample ID: AC-12D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	<0.10		0.100	<0.10		mg/L		91	80 - 118	0	9

Lab Sample ID: MB 400-600278/5
Matrix: Water
Analysis Batch: 600278

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	<0.10		0.10		mg/L			11/11/22 11:02	1

Lab Sample ID: LCS 400-600278/6
Matrix: Water
Analysis Batch: 600278

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrite as N	0.100	0.102		mg/L		102	90 - 110		

Lab Sample ID: MRL 400-600278/7
Matrix: Water
Analysis Batch: 600278

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrite as N	0.00400	<0.018		mg/L		84	50 - 150		

Lab Sample ID: 400-228770-1 MS
Matrix: Water
Analysis Batch: 600278

Client Sample ID: AC-35D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrite as N	<0.10		0.100	0.146		mg/L		92	80 - 118		

Lab Sample ID: 400-228770-1 MSD
Matrix: Water
Analysis Batch: 600278

Client Sample ID: AC-35D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	<0.10		0.100	0.149		mg/L		95	80 - 118	2	9

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-589928/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 592518
Prep Batch: 589928

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-4.811E-2	U	5.80E-2	5.82E-2	1.00E+0	1.54E-1	pCi/L	11/14/22 10:35	12/06/22 09:22	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*8.50E+1*		*40 - 110*	*11/14/22 10:35*	*12/06/22 09:22*	*1*

Lab Sample ID: LCS 160-589928/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 592518
Prep Batch: 589928

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			1.13E+1	1.147E+1		1.25E+0	1.00E+0	1.42E-1	pCi/L	101	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*8.70E+1*		*40 - 110*

Lab Sample ID: 400-228686-1 MS
Client Sample ID: AC-2S
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 592515
Prep Batch: 589928

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	1.34E-1	U	1.14E+1	1.218E+1		1.32E+0	1.00E+0	1.64E-1	pCi/L	106	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*8.36E+1*		*40 - 110*

Lab Sample ID: 400-228686-1 MSD
Client Sample ID: AC-2S
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 592516
Prep Batch: 589928

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	DER	DER Limit
Radium-226	1.34E-1	U	1.14E+1	1.172E+1		1.26E+0	1.00E+0	1.70E-1	pCi/L	102	60 - 140	0.51	3

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*8.65E+1*		*40 - 110*

Lab Sample ID: MB 160-590394/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 592998
Prep Batch: 590394

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.212E-1	U	1.85E-1	1.85E-1	1.00E+0	3.18E-1	pCi/L	11/17/22 09:40	12/09/22 16:51	1

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-590394/1-A
Matrix: Water
Analysis Batch: 592998

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 590394

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	1.04E+2		40 - 110	11/17/22 09:40	12/09/22 16:51	1

Lab Sample ID: LCS 160-590394/2-A
Matrix: Water
Analysis Batch: 592998

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 590394

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			1.13E+1	1.047E+1		1.35E+0	1.00E+0	3.35E-1	pCi/L	92	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	9.73E+1		40 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-589930/1-B
Matrix: Water
Analysis Batch: 592075

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 589930

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.783E-1	U	3.23E-1	3.24E-1	1.00E+0	5.57E-1	pCi/L	11/14/22 11:06	12/02/22 11:08	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	8.50E+1		40 - 110	11/14/22 11:06	12/02/22 11:08	1
Y Carrier	8.41E+1		40 - 110	11/14/22 11:06	12/02/22 11:08	1

Lab Sample ID: LCS 160-589930/2-A
Matrix: Water
Analysis Batch: 592075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 589930

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.40E+0	9.955E+0		1.33E+0	1.00E+0	4.82E-1	pCi/L	119	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	8.70E+1		40 - 110
Y Carrier	8.64E+1		40 - 110

Lab Sample ID: 400-228686-1 MS
Matrix: Water
Analysis Batch: 592071

Client Sample ID: AC-2S
Prep Type: Total/NA
Prep Batch: 589930

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	9.53E-1		8.42E+0	1.239E+1		1.62E+0	1.00E+0	7.06E-1	pCi/L	136	60 - 140		

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 400-228686-1 MS
Matrix: Water
Analysis Batch: 592071

Client Sample ID: AC-2S
Prep Type: Total/NA
Prep Batch: 589930

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	8.36E+1		40 - 110
Y Carrier	8.52E+1		40 - 110

Lab Sample ID: 400-228686-1 MSD
Matrix: Water
Analysis Batch: 592071

Client Sample ID: AC-2S
Prep Type: Total/NA
Prep Batch: 589930

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	DER	DER Limit
Radium-228	9.53E-1		8.42E+0	1.115E+1		1.47E+0	1.00E+0	5.44E-1	pCi/L	121	60 - 140	1.14	3

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	8.65E+1		40 - 110
Y Carrier	8.52E+1		40 - 110

Lab Sample ID: MB 160-590396/1-A
Matrix: Water
Analysis Batch: 592998

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 590396

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.769E-1	U	3.21E-1	3.24E-1	1.00E+0	4.79E-1	pCi/L	11/17/22 10:15	12/09/22 12:14	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	1.04E+2		40 - 110	11/17/22 10:15	12/09/22 12:14	1
Y Carrier	8.07E+1		40 - 110	11/17/22 10:15	12/09/22 12:14	1

Lab Sample ID: LCS 160-590396/2-A
Matrix: Water
Analysis Batch: 592998

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 590396

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.38E+0	9.363E+0		1.29E+0	1.00E+0	6.20E-1	pCi/L	112	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	9.73E+1		40 - 110
Y Carrier	8.04E+1		40 - 110

Lab Chronicle

Client: AECOM
Job ID: 400-228565-1
Project/Site: Agrico Pensacola - Annual GW

Client Sample ID: EQ-1
Lab Sample ID: 400-228565-1
Date Collected: 11/08/22 10:20
Matrix: Water
Date Received: 11/08/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	600520	11/14/22 17:47	JAS	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	600392	11/12/22 12:43	JL	EET PEN
							Completed:	11/12/22 16:29 [1]		
Total Recoverable	Analysis	6010D		1			600467	11/13/22 14:00	LSS	EET PEN
Total/NA	Analysis	353.2		1	10 mL	10 mL	602365	11/23/22 17:31	DEK	EET PEN
Total/NA	Analysis	Nitrate by calc		1	10 mL	10 mL	601168	11/09/22 10:17	RRC	EET PEN
Total/NA	Analysis	SM 4500 F C		1	50 mL	50 mL	600295	11/11/22 16:01	JP	EET PEN
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	599897	11/09/22 10:17	RRC	EET PEN
Total/NA	Prep	PrecSep-21			1000.05 mL	1.0 g	589928	11/14/22 10:35	DJP	EET SL
Total/NA	Analysis	903.0		1			592515	12/06/22 09:28	FLC	EET SL
Total/NA	Prep	PrecSep_0			1000.05 mL	1.0 g	589930	11/14/22 11:06	DJP	EET SL
Total/NA	Analysis	904.0		1			592075	12/02/22 11:09	FLC	EET SL

Client Sample ID: ACB-31S
Lab Sample ID: 400-228565-2
Date Collected: 11/08/22 12:20
Matrix: Water
Date Received: 11/08/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	600520	11/14/22 16:45	JAS	EET PEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	600800	11/15/22 16:55	JAS	EET PEN
Total/NA	Analysis	353.2		1	10 mL	10 mL	602365	11/23/22 17:25	DEK	EET PEN
Total/NA	Analysis	Nitrate by calc		1	10 mL	10 mL	601168	11/09/22 10:12	RRC	EET PEN
Total/NA	Analysis	SM 4500 F C		1	50 mL	50 mL	600348	11/11/22 16:15	JP	EET PEN
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	599897	11/09/22 10:12	RRC	EET PEN
Total/NA	Prep	PrecSep-21			996.19 mL	1.0 g	589928	11/14/22 10:35	DJP	EET SL
Total/NA	Analysis	903.0		1			592515	12/06/22 09:28	FLC	EET SL
Total/NA	Prep	PrecSep_0			996.19 mL	1.0 g	589930	11/14/22 11:06	DJP	EET SL
Total/NA	Analysis	904.0		1			592075	12/02/22 11:10	FLC	EET SL

Client Sample ID: AC-2D
Lab Sample ID: 400-228565-3
Date Collected: 11/08/22 15:18
Matrix: Water
Date Received: 11/08/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	600520	11/14/22 18:08	JAS	EET PEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	601005	11/16/22 19:20	JAS	EET PEN
Total/NA	Analysis	353.2		1	10 mL	10 mL	602365	11/23/22 17:32	DEK	EET PEN
Total/NA	Analysis	Nitrate by calc		1	10 mL	10 mL	601168	11/09/22 10:23	RRC	EET PEN
Total/NA	Analysis	SM 4500 F C		1	50 mL	50 mL	600295	11/11/22 16:04	JP	EET PEN
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	599897	11/09/22 10:23	RRC	EET PEN
Total/NA	Prep	PrecSep-21			996.87 mL	1.0 g	589928	11/14/22 10:35	DJP	EET SL
Total/NA	Analysis	903.0		1			592515	12/06/22 09:28	FLC	EET SL

Client Sample ID: AC-2D
Lab Sample ID: 400-228565-3

Date Collected: 11/08/22 15:18
Matrix: Water
Date Received: 11/08/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			996.87 mL	1.0 g	589930	11/14/22 11:06	DJP	EET SL
Total/NA	Analysis	904.0		1			592075	12/02/22 11:10	FLC	EET SL

Client Sample ID: DUP-1
Lab Sample ID: 400-228565-4

Date Collected: 11/08/22 12:00
Matrix: Water
Date Received: 11/08/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	600520	11/14/22 19:11	JAS	EET PEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	600800	11/15/22 18:18	JAS	EET PEN
Total/NA	Analysis	353.2		1	10 mL	10 mL	602365	11/23/22 17:34	DEK	EET PEN
Total/NA	Analysis	Nitrate by calc		1	10 mL	10 mL	601168	11/09/22 10:24	RRC	EET PEN
Total/NA	Analysis	SM 4500 F C		1	50 mL	50 mL	600295	11/11/22 16:06	JP	EET PEN
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	599897	11/09/22 10:24	RRC	EET PEN
Total/NA	Prep	PrecSep-21			997.21 mL	1.0 g	589928	11/14/22 10:35	DJP	EET SL
Total/NA	Analysis	903.0		1			592515	12/06/22 09:28	FLC	EET SL
Total/NA	Prep	PrecSep_0			997.21 mL	1.0 g	589930	11/14/22 11:06	DJP	EET SL
Total/NA	Analysis	904.0		1			592075	12/02/22 11:11	FLC	EET SL

Client Sample ID: AC-2S
Lab Sample ID: 400-228686-1

Date Collected: 11/09/22 10:47
Matrix: Water
Date Received: 11/09/22 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	600590	11/15/22 04:33	JAS	EET PEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	600800	11/15/22 22:28	JAS	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	600392	11/12/22 12:43	JL	EET PEN
							Completed:	11/12/22 16:29 [1]		
Total Recoverable	Analysis	6010D		1			600467	11/13/22 14:12	LSS	EET PEN
Total/NA	Analysis	353.2		2	10 mL	10 mL	602151	11/22/22 18:48	DEK	EET PEN
Total/NA	Analysis	Nitrate by calc		1	10 mL	10 mL	601650	11/10/22 10:43	RRC	EET PEN
Total/NA	Analysis	SM 4500 F C		4	50 mL	50 mL	600791	11/16/22 11:25	JP	EET PEN
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	600053	11/10/22 10:43	RRC	EET PEN
Total/NA	Prep	PrecSep-21			1005.01 mL	1.0 g	589928	11/14/22 10:35	DJP	EET SL
Total/NA	Analysis	903.0		1			592515	12/06/22 09:29	FLC	EET SL
Total/NA	Prep	PrecSep_0			1005.01 mL	1.0 g	589930	11/14/22 11:06	DJP	EET SL
Total/NA	Analysis	904.0		1			592075	12/02/22 11:11	FLC	EET SL

Client Sample ID: AC-3D
Lab Sample ID: 400-228686-2

Date Collected: 11/09/22 13:00
Matrix: Water
Date Received: 11/09/22 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	600590	11/15/22 04:54	JAS	EET PEN

Client Sample ID: AC-3D
Lab Sample ID: 400-228686-2

Date Collected: 11/09/22 13:00
Matrix: Water
Date Received: 11/09/22 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	10 mL	10 mL	600800	11/15/22 22:49	JAS	EET PEN
Total/NA	Analysis	353.2		2	10 mL	10 mL	602151	11/22/22 18:48	DEK	EET PEN
Total/NA	Analysis	Nitrate by calc		1	10 mL	10 mL	601650	11/10/22 10:44	RRC	EET PEN
Total/NA	Analysis	SM 4500 F C		1	50 mL	50 mL	600348	11/11/22 16:15	JP	EET PEN
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	600053	11/10/22 10:44	RRC	EET PEN
Total/NA	Prep	PrecSep-21			992.73 mL	1.0 g	589928	11/14/22 10:35	DJP	EET SL
Total/NA	Analysis	903.0		1			592515	12/06/22 12:28	FLC	EET SL
Total/NA	Prep	PrecSep_0			992.73 mL	1.0 g	589930	11/14/22 11:06	DJP	EET SL
Total/NA	Analysis	904.0		1			592071	12/02/22 11:19	FLC	EET SL

Client Sample ID: AC-12D
Lab Sample ID: 400-228686-3

Date Collected: 11/09/22 14:34
Matrix: Water
Date Received: 11/09/22 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	600590	11/15/22 05:15	JAS	EET PEN
Total/NA	Analysis	353.2		10	10 mL	10 mL	602151	11/22/22 19:58	DEK	EET PEN
Total/NA	Analysis	Nitrate by calc		1	10 mL	10 mL	601650	11/10/22 10:41	RRC	EET PEN
Total/NA	Analysis	SM 4500 F C		1	50 mL	50 mL	606395	12/27/22 17:39	JP	EET PEN
Total/NA	Analysis	SM 4500 F C		1	50 mL	50 mL	600348	11/11/22 16:15	JP	EET PEN
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	600053	11/10/22 10:41	RRC	EET PEN
Total/NA	Prep	PrecSep-21			995.83 mL	1.0 g	589928	11/14/22 10:35	DJP	EET SL
Total/NA	Analysis	903.0		1			592515	12/06/22 12:28	FLC	EET SL
Total/NA	Prep	PrecSep_0			995.83 mL	1.0 g	589930	11/14/22 11:06	DJP	EET SL
Total/NA	Analysis	904.0		1			592071	12/02/22 11:19	FLC	EET SL

Client Sample ID: AC-35D
Lab Sample ID: 400-228770-1

Date Collected: 11/10/22 08:41
Matrix: Water
Date Received: 11/10/22 16:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	10 mL	10 mL	600590	11/15/22 06:59	JAS	EET PEN
Total/NA	Analysis	353.2		5	10 mL	10 mL	605749	12/20/22 19:52	DEK	EET PEN
Total/NA	Analysis	353.2		1	10 mL	10 mL	602365	11/23/22 17:36	DEK	EET PEN
Total/NA	Analysis	Nitrate by calc		1	10 mL	10 mL	602459	11/11/22 11:03	RRC	EET PEN
Total/NA	Analysis	SM 4500 F C		10	50 mL	50 mL	600791	11/16/22 11:28	JP	EET PEN
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	600278	11/11/22 11:03	RRC	EET PEN
Total/NA	Prep	PrecSep-21			1002.57 mL	1.0 g	590394	11/17/22 09:40	DJP	EET SL
Total/NA	Analysis	903.0		1			592998	12/09/22 16:52	SCB	EET SL
Total/NA	Prep	PrecSep_0			1002.57 mL	1.0 g	590396	11/17/22 10:15	DJP	EET SL
Total/NA	Analysis	904.0		1			592998	12/09/22 12:18	SCB	EET SL

Client Sample ID: AC-25D
Lab Sample ID: 400-228770-2

Date Collected: 11/10/22 10:14
Matrix: Water
Date Received: 11/10/22 16:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	10 mL	10 mL	600800	11/15/22 23:10	JAS	EET PEN
Total/NA	Analysis	353.2		5	10 mL	10 mL	605749	12/20/22 21:21	DEK	EET PEN
Total/NA	Analysis	353.2		1	10 mL	10 mL	602365	11/23/22 17:38	DEK	EET PEN
Total/NA	Analysis	Nitrate by calc		1	10 mL	10 mL	602459	11/11/22 11:05	RRC	EET PEN
Total/NA	Analysis	SM 4500 F C		10	50 mL	50 mL	600791	11/16/22 11:31	JP	EET PEN
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	600278	11/11/22 11:05	RRC	EET PEN
Total/NA	Prep	PrecSep-21			996.38 mL	1.0 g	590394	11/17/22 09:40	DJP	EET SL
Total/NA	Analysis	903.0		1			592998	12/09/22 16:52	SCB	EET SL
Total/NA	Prep	PrecSep_0			996.38 mL	1.0 g	590396	11/17/22 10:15	DJP	EET SL
Total/NA	Analysis	904.0		1			592998	12/09/22 12:18	SCB	EET SL

Client Sample ID: AC-13D
Lab Sample ID: 400-228770-3

Date Collected: 11/10/22 12:26
Matrix: Water
Date Received: 11/10/22 16:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	600590	11/15/22 07:40	JAS	EET PEN
Total/NA	Analysis	300.0		10	10 mL	10 mL	600800	11/16/22 00:33	JAS	EET PEN
Total/NA	Analysis	353.2		10	10 mL	10 mL	602365	11/23/22 19:36	DEK	EET PEN
Total/NA	Analysis	Nitrate by calc		1	10 mL	10 mL	602459	11/11/22 11:05	RRC	EET PEN
Total/NA	Analysis	SM 4500 F C		1	50 mL	50 mL	600295	11/11/22 16:26	JP	EET PEN
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	600278	11/11/22 11:05	RRC	EET PEN
Total/NA	Prep	PrecSep-21			995.43 mL	1.0 g	590394	11/17/22 09:40	DJP	EET SL
Total/NA	Analysis	903.0		1			592998	12/09/22 16:52	SCB	EET SL
Total/NA	Prep	PrecSep_0			995.43 mL	1.0 g	590396	11/17/22 10:15	DJP	EET SL
Total/NA	Analysis	904.0		1			592998	12/09/22 12:18	SCB	EET SL

Client Sample ID: AC-24D
Lab Sample ID: 400-228770-4

Date Collected: 11/10/22 14:03
Matrix: Water
Date Received: 11/10/22 16:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	600590	11/15/22 08:43	JAS	EET PEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	600800	11/16/22 00:12	JAS	EET PEN
Total/NA	Analysis	353.2		5	10 mL	10 mL	602365	11/23/22 19:38	DEK	EET PEN
Total/NA	Analysis	Nitrate by calc		1	10 mL	10 mL	602459	11/11/22 11:06	RRC	EET PEN
Total/NA	Analysis	SM 4500 F C		4	50 mL	50 mL	600791	11/16/22 11:34	JP	EET PEN
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	600278	11/11/22 11:06	RRC	EET PEN
Total/NA	Prep	PrecSep-21			1003.11 mL	1.0 g	590394	11/17/22 09:40	DJP	EET SL
Total/NA	Analysis	903.0		1			592998	12/09/22 16:52	SCB	EET SL
Total/NA	Prep	PrecSep_0			1003.11 mL	1.0 g	590396	11/17/22 10:15	DJP	EET SL
Total/NA	Analysis	904.0		1			592998	12/09/22 12:18	SCB	EET SL

Client Sample ID: AC-29D
Lab Sample ID: 400-228770-5

Date Collected: 11/10/22 15:30
Matrix: Water
Date Received: 11/10/22 16:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	600590	11/15/22 09:04	JAS	EET PEN
Total/NA	Analysis	300.0		10	10 mL	10 mL	600800	11/16/22 00:54	JAS	EET PEN
Total/NA	Analysis	353.2		5	10 mL	10 mL	602365	11/23/22 19:40	DEK	EET PEN
Total/NA	Analysis	Nitrate by calc		1	10 mL	10 mL	602459	11/11/22 11:06	RRC	EET PEN
Total/NA	Analysis	SM 4500 F C		4	50 mL	50 mL	600791	11/16/22 11:37	JP	EET PEN
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	600278	11/11/22 11:06	RRC	EET PEN
Total/NA	Prep	PrecSep-21			995.87 mL	1.0 g	590394	11/17/22 09:40	DJP	EET SL
Total/NA	Analysis	903.0		1			592998	12/09/22 16:52	SCB	EET SL
Total/NA	Prep	PrecSep_0			995.87 mL	1.0 g	590396	11/17/22 10:15	DJP	EET SL
Total/NA	Analysis	904.0		1			592998	12/09/22 12:19	SCB	EET SL

Client Sample ID: Method Blank
Lab Sample ID: MB 160-589928/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000 mL	1.0 g	589928	11/14/22 10:35	DJP	EET SL
Total/NA	Analysis	903.0		1			592518	12/06/22 09:22	FLC	EET SL

Client Sample ID: Method Blank
Lab Sample ID: MB 160-589930/1-B

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000 mL	1.0 g	589930	11/14/22 11:06	DJP	EET SL
Total/NA	Analysis	904.0		1			592075	12/02/22 11:08	FLC	EET SL

Client Sample ID: Method Blank
Lab Sample ID: MB 160-590394/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000 mL	1.0 g	590394	11/17/22 09:40	DJP	EET SL
Total/NA	Analysis	903.0		1			592998	12/09/22 16:51	SCB	EET SL

Client Sample ID: Method Blank
Lab Sample ID: MB 160-590396/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000 mL	1.0 g	590396	11/17/22 10:15	DJP	EET SL
Total/NA	Analysis	904.0		1			592998	12/09/22 12:14	SCB	EET SL

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-599897/13**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	599897	11/09/22 10:11	RRC	EET PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-600053/5**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	600053	11/10/22 10:40	RRC	EET PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-600278/5**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	600278	11/11/22 11:02	RRC	EET PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-600295/1**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	50 mL	50 mL	600295	11/11/22 15:01	JP	EET PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-600348/10**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	50 mL	50 mL	600348	11/11/22 16:15	JP	EET PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-600392/1-A**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	600392	11/12/22 12:43	JL	EET PEN
							Completed:	11/12/22 16:29 [1]		
Total Recoverable	Analysis	6010D		1			600467	11/13/22 12:37	LSS	EET PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-600520/5**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	600520	11/14/22 10:51	JAS	EET PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-600590/44**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	600590	11/15/22 00:23	JAS	EET PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-600791/33**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	50 mL	50 mL	600791	11/16/22 12:40	JP	EET PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-600800/5**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	600800	11/15/22 15:52	JAS	EET PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-601005/19**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	601005	11/16/22 17:15	JAS	EET PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-602151/16**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	10 mL	10 mL	602151	11/22/22 19:55	DEK	EET PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-602365/16**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	10 mL	10 mL	602365	11/23/22 19:32	DEK	EET PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-605749/16**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	10 mL	10 mL	605749	12/20/22 18:33	DEK	EET PEN

Lab Chronicle

Client: AECOM
Job ID: 400-228565-1
Project/Site: Agrico Pensacola - Annual GW

Client Sample ID: Method Blank
Lab Sample ID: MB 400-606395/10
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	100 mL	100 mL	606395	12/27/22 16:45	JP	EET PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 160-589928/2-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000 mL	1.0 g	589928	11/14/22 10:35	DJP	EET SL
Total/NA	Analysis	903.0		1			592518	12/06/22 09:22	FLC	EET SL

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 160-589930/2-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000 mL	1.0 g	589930	11/14/22 11:06	DJP	EET SL
Total/NA	Analysis	904.0		1			592075	12/02/22 11:08	FLC	EET SL

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 160-590394/2-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000 mL	1.0 g	590394	11/17/22 09:40	DJP	EET SL
Total/NA	Analysis	903.0		1			592998	12/09/22 16:51	SCB	EET SL

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 160-590396/2-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000 mL	1.0 g	590396	11/17/22 10:15	DJP	EET SL
Total/NA	Analysis	904.0		1			592998	12/09/22 12:17	SCB	EET SL

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-599897/14
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	599897	11/09/22 10:11	RRC	EET PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-600053/6**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	600053	11/10/22 10:40	RRC	EET PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-600278/6**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	600278	11/11/22 11:02	RRC	EET PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-600295/4**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	100 mL	100 mL	600295	11/11/22 15:09	JP	EET PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-600348/13**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	100 mL	100 mL	600348	11/11/22 16:15	JP	EET PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-600392/2-A**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	600392	11/12/22 12:43	JL	EET PEN
							Completed:	11/12/22 16:29 [1]		
Total Recoverable	Analysis	6010D		1			600467	11/13/22 12:41	LSS	EET PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-600520/6**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	600520	11/14/22 11:11	JAS	EET PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-600590/45**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	600590	11/15/22 00:44	JAS	EET PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-600791/36**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	100 mL	100 mL	600791	11/16/22 12:48	JP	EET PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-600800/6**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	600800	11/15/22 16:13	JAS	EET PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-601005/20**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	601005	11/16/22 17:36	JAS	EET PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-602151/48**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	10 mL	10 mL	602151	11/22/22 18:26	DEK	EET PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-602365/17**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	10 mL	10 mL	602365	11/23/22 19:34	DEK	EET PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-605749/17**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	10 mL	10 mL	605749	12/20/22 19:48	DEK	EET PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-606395/13**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	100 mL	100 mL	606395	12/27/22 16:53	JP	EET PEN

Client Sample ID: Lab Control Sample Dup — **Lab Sample ID: LCSD 400-600520/7**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	600520	11/14/22 11:32	JAS	EET PEN

Client Sample ID: Lab Control Sample Dup — **Lab Sample ID: LCSD 400-600590/46**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	600590	11/15/22 01:05	JAS	EET PEN

Client Sample ID: Lab Control Sample Dup — **Lab Sample ID: LCSD 400-600800/7**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	600800	11/15/22 16:34	JAS	EET PEN

Client Sample ID: Lab Control Sample Dup — **Lab Sample ID: LCSD 400-601005/21**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	601005	11/16/22 17:57	JAS	EET PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: MRL 400-599897/15**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	599897	11/09/22 10:12	RRC	EET PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: MRL 400-600053/7**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	600053	11/10/22 10:41	RRC	EET PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: MRL 400-600278/7**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	600278	11/11/22 11:03	RRC	EET PEN

Lab Chronicle

Client: AECOM
Job ID: 400-228565-1
Project/Site: Agrico Pensacola - Annual GW

Client Sample ID: Lab Control Sample
Lab Sample ID: MRL 400-600295/3
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	100 mL	100 mL	600295	11/11/22 15:06	JP	EET PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: MRL 400-600348/12
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	100 mL	100 mL	600348	11/11/22 16:15	JP	EET PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: MRL 400-600791/35
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	100 mL	100 mL	600791	11/16/22 12:45	JP	EET PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: MRL 400-602151/18
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	10 mL	10 mL	602151	11/22/22 19:57	DEK	EET PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: MRL 400-602365/18
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	10 mL	10 mL	602365	11/23/22 17:23	DEK	EET PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: MRL 400-605749/18
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	10 mL	10 mL	605749	12/20/22 18:37	DEK	EET PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: MRL 400-606395/12
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	100 mL	100 mL	606395	12/27/22 16:50	JP	EET PEN

Client Sample ID: ACB-31S
Lab Sample ID: 400-228565-2 MS

Date Collected: 11/08/22 12:20
Matrix: Water
Date Received: 11/08/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	600800	11/15/22 17:16	JAS	EET PEN
Total/NA	Analysis	353.2		1	10 mL	10 mL	602365	11/23/22 17:27	DEK	EET PEN
Total/NA	Analysis	Nitrate by calc		1			601168	11/09/22 10:12	RRC	EET PEN
Total/NA	Analysis	SM 4500 F C		1	100 mL	100 mL	600348	11/11/22 16:15	JP	EET PEN
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	599897	11/09/22 10:13	RRC	EET PEN

Client Sample ID: ACB-31S
Lab Sample ID: 400-228565-2 MSD

Date Collected: 11/08/22 12:20
Matrix: Water
Date Received: 11/08/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	600800	11/15/22 17:37	JAS	EET PEN
Total/NA	Analysis	353.2		1	10 mL	10 mL	602365	11/23/22 17:29	DEK	EET PEN
Total/NA	Analysis	Nitrate by calc		1			601168	11/09/22 10:13	RRC	EET PEN
Total/NA	Analysis	SM 4500 F C		1	100 mL	100 mL	600348	11/11/22 16:15	JP	EET PEN
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	599897	11/09/22 10:13	RRC	EET PEN

Client Sample ID: AC-2S
Lab Sample ID: 400-228686-1 MS

Date Collected: 11/09/22 10:47
Matrix: Water
Date Received: 11/09/22 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	600392	11/12/22 12:43	JL	EET PEN
							Completed:	11/12/22 16:29 [1]		
Total Recoverable	Analysis	6010D		1			600467	11/13/22 14:16	LSS	EET PEN
Total/NA	Prep	PrecSep-21			997.05 mL	1.0 g	589928	11/14/22 10:35	DJP	EET SL
Total/NA	Analysis	903.0		1			592515	12/06/22 09:29	FLC	EET SL
Total/NA	Prep	PrecSep_0			997.05 mL	1.0 g	589930	11/14/22 11:06	DJP	EET SL
Total/NA	Analysis	904.0		1			592071	12/02/22 11:18	FLC	EET SL

Client Sample ID: AC-2S
Lab Sample ID: 400-228686-1 MSD

Date Collected: 11/09/22 10:47
Matrix: Water
Date Received: 11/09/22 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			997.07 mL	1.0 g	589928	11/14/22 10:35	DJP	EET SL
Total/NA	Analysis	903.0		1			592516	12/06/22 12:27	FLC	EET SL
Total/NA	Prep	PrecSep_0			997.07 mL	1.0 g	589930	11/14/22 11:06	DJP	EET SL
Total/NA	Analysis	904.0		1			592071	12/02/22 11:18	FLC	EET SL

Lab Chronicle

Client: AECOM
Job ID: 400-228565-1
Project/Site: Agrico Pensacola - Annual GW

Client Sample ID: AC-12D
Lab Sample ID: 400-228686-3 MS
Date Collected: 11/09/22 14:34
Matrix: Water
Date Received: 11/09/22 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	600053	11/10/22 10:42	RRC	EET PEN

Client Sample ID: AC-12D
Lab Sample ID: 400-228686-3 MSD
Date Collected: 11/09/22 14:34
Matrix: Water
Date Received: 11/09/22 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	600053	11/10/22 10:42	RRC	EET PEN

Client Sample ID: AC-35D
Lab Sample ID: 400-228770-1 MS
Date Collected: 11/10/22 08:41
Matrix: Water
Date Received: 11/10/22 16:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	600278	11/11/22 11:04	RRC	EET PEN

Client Sample ID: AC-35D
Lab Sample ID: 400-228770-1 MSD
Date Collected: 11/10/22 08:41
Matrix: Water
Date Received: 11/10/22 16:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NO2 B		1	10 mL	10 mL	600278	11/11/22 11:05	RRC	EET PEN

Client Sample ID: AC-12D
Lab Sample ID: 400-228686-3 DU
Date Collected: 11/09/22 14:34
Matrix: Water
Date Received: 11/09/22 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	50 mL	50 mL	606395	12/27/22 17:43	JP	EET PEN

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Method Summary

Client: AECOM
Job ID: 400-228565-1
Project/Site: Agrico Pensacola - Annual GW

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	EET PEN
6010D	Metals (ICP)	SW846	EET PEN
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	EET PEN
Nitrate by calc	Nitrogen, Nitrate	SM	EET PEN
SM 4500 F C	Fluoride	SM	EET PEN
SM 4500 NO2 B	Nitrogen, Nitrite	SM	EET PEN
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PEN
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: AECOM
Job ID: 400-228565-1
Project/Site: Agrico Pensacola - Annual GW

Laboratory: Eurofins Pensacola

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E81010	06-30-23

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-23
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	12-19-22
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	12-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: J. Fletcher	Lab PM: Savoie, Noel	Carrier Tracking No(s):	COC No: 400-114989-40166.2
Client Contact: Ms. Amy Mixon	Phone: 850-251-0584	E-Mail: Noel.Savoie@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: AECOM	PWSID:			Job #:
Address: 1625 Summit Lake Drive Suite 200	Due Date Requested:			
City: Tallahassee	TAT Requested (days):			
State, Zip: FL, 32317	Compliance Project: Δ Yes Δ No			
Phone: 850-465-3886(Tel)	PO #: Purchase Order Requested			
Email: amy.mixon@aecom.com	WO #: 60618051.1			
Project Name: Agrico Pensacola - Annual GW	Project #: 40015198			
Site: Agrico	SSOW#:			

Analysis Requested

400-228565 COC

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 - Radium-226	904.0 - Radium-228	Nitrate_Calc - Nitrate as N	353.2_Pres - Nitrogen, Nitrate-Nitrite	SM4500_NO2_B - Nitrite as N	300_ORGFM_28D - Chloride and Sulfate	6010D - Arsenic	4500_F_C - Fluoride	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D	S	S	N	N	D	N		
EQ-1	11/8/22	1020	G	W			X	X	X	X	X	X	X	X	7	
ACB-31s		1220	G	W			X	X	X	X	X	X		X	12	MS/MSD collected
AC-2D		1518	G	W			X	X	X	X	X	X		X	6	
DUP-1		—	G	W			X	X	X	X	X	X		X	6	

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/8/22 1612	Aecom		11/8/22 1612	EES
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.6°C IR8

Ver: 06/08/2021

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12/29/2022

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: J. Fletcher	Lab PM: Savoie, Noel	Carrier Tracking No(s):	COC No: 400-114990-40167.1
Client Contact: Ms. Amy Mixon	Phone: 850-251-0584	E-Mail: Noel.Savoie@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: AECOM	PWSID:			Job #:

Address: 1625 Summit Lake Drive Suite 200	Due Date Requested:
City: Tallahassee	TAT Requested (days):
State, Zip: FL, 32317	Compliance Project: Δ Yes Δ No
Phone: 850-465-3886(Tel)	PO #: Purchase Order Requested
Email: amy.mixon@aecom.com	WO #: 60618051.1
Project Name: Agrico Pensacola - Annual SW	Project #: 40015198
Site: Agrico	SSOW#:

Analysis Requested

400-228685 COC

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	4500_F_C - Fluoride	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
BT-02	11/9/22	0825	G	W			X	1	
BT-127	↓	0834	G	W			X	1	
BT-107	↓	0841	G	W			X	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 11/9/22 1542	Company: Aecom	Received by:	Date/Time: 11/9/22 1542	Company: ECLS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 4.4°C JR

Ver: 06/08/2021

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: J. Fletcher	Lab PM: Savoie, Noel	Carrier Tracking No(s):	COC No: 400-114989-40166.1
Client Contact: Ms. Amy Mixon	Phone: 850-251-0584	E-Mail: Noel.Savoie@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: AECOM	PWSID:	400-228686 COC		Job #:

Address: 1625 Summit Lake Drive Suite 200	Due Date Requested:
City: Tallahassee	TAT Requested (days):
State, Zip: FL, 32317	Compliance Project: Δ Yes Δ No
Phone: 850-465-3886(Tel)	PO #: Purchase Order Requested
Email: amy.mixon@aecom.com	WO #: 60618051.1
Project Name: Agrico Pensacola - Annual GW	Project #: 40015198
Site: Agrico	SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 - Radium-226	904.0 - Radium-228	Nitrate_Calc - Nitrate as N	353.2_Pres - Nitrogen, Nitrate-Nitrite	SM4500_NO2_B - Nitrite as N	300_ORGFM_28D - Chloride and Sulfate	6010D - Arsenic	4500_F_C - Fluoride	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D	S	S	N	N	D	N		
AC-2S	11/9/22	1047	G	W			X	X	X	X	X	X	X	X	9	collected MS/MSD on Radium
AC-3D	↓	1300	G	W			X	X	X	X	X	X		X	6	
AC-12D	↓	1434	G	W			X	X	X	X	X	X		X	6	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/9/22 1542	Aecom		11/9/22 1542	ECMS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.6 °C IR9

Ver: 06/08/2021

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Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Savoie, Noel	Carrier Tracking No(s):	COC No: 400-306894.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Noel.Savoie@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida		Job #: 400-228565-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 12/7/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Agrico Pensacola - Annual	Project #: 40015198			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904.0/PrecSep_0 Radium-228	903.0/PrecSep_21 Standard Target List	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
EQ-1 (400-228565-1)	11/8/22	10:20 Eastern		Water			X	X	2	
ACB-31S (400-228565-2)	11/8/22	12:20 Eastern		Water			X	X	2	
AC-2D (400-228565-3)	11/8/22	15:18 Eastern		Water			X	X	2	
DUP-1 (400-228565-4)	11/8/22	12:00 Eastern		Water			X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	FED EX	11/9/22 1200	EETS	FED EX		
	Relinquished by: FED EX	Date/Time:	Company	Received by:	Date/Time: NOV 10 2022 0850	Company EA STL
	Relinquished by:	Date/Time:	Company	Received by: Autumn R. Johnson	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Savoie, Noel	Carrier Tracking No(s):	COC No: 400-306950.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Noel.Savoie@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida		Job #: 400-228565-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 12/9/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Agrico Pensacola - Annual GW	Project #: 40015198			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904.0/PrecSep_0 Radium-228	903.0/PrecSep_21 Standard Target List	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
AC-2S (400-228686-1)	11/9/22	10:47 Central		Water			X	X	2	
AC-2S (400-228686-1MS)	11/9/22	10:47 Central	MS	Water			X	X	2	
AC-2S (400-228686-1MSD)	11/9/22	10:47 Central	MSD	Water			X	X	2	
AC-3D (400-228686-2)	11/9/22	13:00 Central		Water			X	X	2	
AC-12D (400-228686-3)	11/9/22	14:34 Central		Water			X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		11/10/22 1700	ECS	FED EX		
2	FED EX				NOV 11 2022 0840	PRSTL
3				Received by: Autumn R. Johnson		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Savoie, Noel	Carrier Tracking No(s):	COC No: 400-306950.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Noel.Savoie@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida		Job #: 400-228565-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 12/9/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Agrico Pensacola - Annual GW	Project #: 40015198			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904.0/PrecSep_0 Radium-228	903.0/PrecSep_21 Standard Target List	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
AC-2S (400-228686-1)	11/9/22	10:47 Central		Water			X	X	2	
AC-2S (400-228686-1MS)	11/9/22	10:47 Central	MS	Water			X	X	2	
AC-2S (400-228686-1MSD)	11/9/22	10:47 Central	MSD	Water			X	X	2	
AC-3D (400-228686-2)	11/9/22	13:00 Central		Water			X	X	2	
AC-12D (400-228686-3)	11/9/22	14:34 Central		Water			X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		11/10/22 1700	ECS	FED EX		
2	FED EX				NOV 11 2022 0840	PRSTC
3				Received by: Autumn R. Johnson		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Savoie, Noel	Carrier Tracking No(s):	COC No: 400-307286.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Noel.Savoie@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida		Job #: 400-228565-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 11/17/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Agrico Pensacola - Annual GW	Project #: 40015198			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904.0/PrecSep_0 Radium-228	903.0/PrecSep_21 Standard Target List	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
AC-35D (400-228770-1)	11/10/22	08:41 Eastern		Water			X	X	2	
AC-25D (400-228770-2)	11/10/22	10:14 Eastern		Water			X	X	2	
AC-13D (400-228770-3)	11/10/22	12:26 Eastern		Water			X	X	2	
AC-24D (400-228770-4)	11/10/22	14:03 Eastern		Water			X	X	2	
AC-29D (400-228770-5)	11/10/22	15:30 Eastern		Water			X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		11/14/22 1700	EES	FED EX		
2	Relinquished by: FED EX	Date/Time:	Company	Received by: Sierra Worthington	Date/Time: NOV 16 2022 0920	Company EESR
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: AECOM

Job Number: 400-228565-1

Login Number: 228565

List Source: Eurofins Pensacola

List Number: 1

Creator: Roberts, Alexis J

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.5°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 400-228565-1

Login Number: 228565
List Number: 2
Creator: Booker, Autumn R

List Source: Eurofins St. Louis
List Creation: 11/10/22 07:37 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 400-228565-1

Login Number: 228686

List Source: Eurofins Pensacola

List Number: 1

Creator: Perez, Trina M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.6°C IR-9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 400-228565-1

Login Number: 228686
List Number: 2
Creator: Booker, Autumn R

List Source: Eurofins St. Louis
List Creation: 11/11/22 01:18 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 400-228565-1

Login Number: 228770

List Source: Eurofins Pensacola

List Number: 1

Creator: Roberts, Alexis J

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	7.3°C, 8.4°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 400-228565-1

Login Number: 228770
List Number: 2
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 11/16/22 11:13 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-228685-1
Client Project/Site: Agrico Pensacola - Annual SW

For:
AECOM
1625 Summit Lake Drive
Suite 200
Tallahassee, Florida 32317

Attn: Ms. Amy Mixon

Noël Savoie

Authorized for release by:
11/14/2022 9:46:02 AM

Noel Savoie, Project Manager I
(850)254-0107
Noel.Savoie@et.eurofinsus.com

Table of Contents

Case Narrative

Client: AECOM
Project/Site: Agrico Pensacola - Annual SW

Job ID: 400-228685-1

Job ID: 400-228685-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-228685-1

Receipt
The samples were received on 11/9/2022 3:42 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: AECOM
Project/Site: Agrico Pensacola - Annual SW

Job ID: 400-228685-1

Client Sample ID: BT-02 — Lab Sample ID: 400-228685-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.2		0.10		mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: BT-127 — Lab Sample ID: 400-228685-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.90		0.10		mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: BT-107 — Lab Sample ID: 400-228685-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.58		0.10		mg/L	1		SM 4500 F C	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: AECOM
Job ID: 400-228685-1
Project/Site: Agrico Pensacola - Annual SW

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-228685-1	BT-02	Water	11/09/22 08:25	11/09/22 15:42
400-228685-2	BT-127	Water	11/09/22 08:34	11/09/22 15:42
400-228685-3	BT-107	Water	11/09/22 08:41	11/09/22 15:42

Client Sample Results

Client: AECOM
Project/Site: Agrico Pensacola - Annual SW

Job ID: 400-228685-1

Client Sample ID: BT-02
Lab Sample ID: 400-228685-1
Date Collected: 11/09/22 08:25
Matrix: Water
Date Received: 11/09/22 15:42

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (SM 4500 F C)	1.2		0.10		mg/L			11/11/22 16:09	1

Client Sample ID: BT-127
Lab Sample ID: 400-228685-2
Date Collected: 11/09/22 08:34
Matrix: Water
Date Received: 11/09/22 15:42

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (SM 4500 F C)	0.90		0.10		mg/L			11/11/22 16:12	1

Client Sample ID: BT-107
Lab Sample ID: 400-228685-3
Date Collected: 11/09/22 08:41
Matrix: Water
Date Received: 11/09/22 15:42

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (SM 4500 F C)	0.58		0.10		mg/L			11/11/22 16:16	1

Definitions/Glossary

Client: AECOM
Job ID: 400-228685-1
Project/Site: Agrico Pensacola - Annual SW

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: AECOM
Job ID: 400-228685-1
Project/Site: Agrico Pensacola - Annual SW

General Chemistry

Analysis Batch: 600295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228685-1	BT-02	Total/NA	Water	SM 4500 F C	
400-228685-2	BT-127	Total/NA	Water	SM 4500 F C	
400-228685-3	BT-107	Total/NA	Water	SM 4500 F C	
MB 400-600295/1	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-600295/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-600295/3	Lab Control Sample	Total/NA	Water	SM 4500 F C	

QC Sample Results

Client: AECOM
Project/Site: Agrico Pensacola - Annual SW

Job ID: 400-228685-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-600295/1
Matrix: Water
Analysis Batch: 600295

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			11/11/22 15:01	1

Lab Sample ID: LCS 400-600295/4
Matrix: Water
Analysis Batch: 600295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride			5.00	4.92		mg/L		98	90 - 110		

Lab Sample ID: MRL 400-600295/3
Matrix: Water
Analysis Batch: 600295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride			0.100	0.105		mg/L		105			

Lab Chronicle

Client: AECOM
Job ID: 400-228685-1
Project/Site: Agrico Pensacola - Annual SW

Client Sample ID: BT-02
Lab Sample ID: 400-228685-1
Date Collected: 11/09/22 08:25
Matrix: Water
Date Received: 11/09/22 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	50 mL	50 mL	600295	11/11/22 16:09	JP	EET PEN

Client Sample ID: BT-127
Lab Sample ID: 400-228685-2
Date Collected: 11/09/22 08:34
Matrix: Water
Date Received: 11/09/22 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	50 mL	50 mL	600295	11/11/22 16:12	JP	EET PEN

Client Sample ID: BT-107
Lab Sample ID: 400-228685-3
Date Collected: 11/09/22 08:41
Matrix: Water
Date Received: 11/09/22 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	50 mL	50 mL	600295	11/11/22 16:16	JP	EET PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-600295/1
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	50 mL	50 mL	600295	11/11/22 15:01	JP	EET PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-600295/4
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	100 mL	100 mL	600295	11/11/22 15:09	JP	EET PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: MRL 400-600295/3
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	100 mL	100 mL	600295	11/11/22 15:06	JP	EET PEN

Laboratory References:
EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: AECOM
Job ID: 400-228685-1
Project/Site: Agrico Pensacola - Annual SW

Method	Method Description	Protocol	Laboratory
SM 4500 F C	Fluoride	SM	EET PEN

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: AECOM
Job ID: 400-228685-1
Project/Site: Agrico Pensacola - Annual SW

Laboratory: Eurofins Pensacola

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E81010	06-30-23

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: J. Fletcher	Lab PM: Savoie, Noel	Carrier Tracking No(s):	COC No: 400-114990-40167.1
Client Contact: Ms. Amy Mixon	Phone: 850-251-0584	E-Mail: Noel.Savoie@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: AECOM	PWSID:			Job #:

Analysis Requested

Address: 1625 Summit Lake Drive Suite 200	Due Date Requested:
City: Tallahassee	TAT Requested (days):
State, Zip: FL, 32317	Compliance Project: Δ Yes Δ No
Phone: 850-465-3886(Tel)	PO #: Purchase Order Requested
Email: amy.mixon@aecom.com	WO #: 60618051.1
Project Name: Agrico Pensacola - Annual SW	Project #: 40015198
Site: Agrico	SSOW#:

400-228685 COC

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	4500_F_C - Fluoride	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
BT-02	11/9/22	0825	G	W			X	1	
BT-127	↓	0834	G	W			X	1	
BT-107	↓	0841	G	W			X	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 11/9/22 1542	Company: Aecom	Received by:	Date/Time: 11/9/22 1542	Company: ECLS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 4.4°C IR 6

Ver: 06/08/2021

Page 13 of 14

11/14/2022

Login Sample Receipt Checklist

Client: AECOM

Job Number: 400-228685-1

Login Number: 228685
List Number: 1
Creator: Roberts, Alexis J

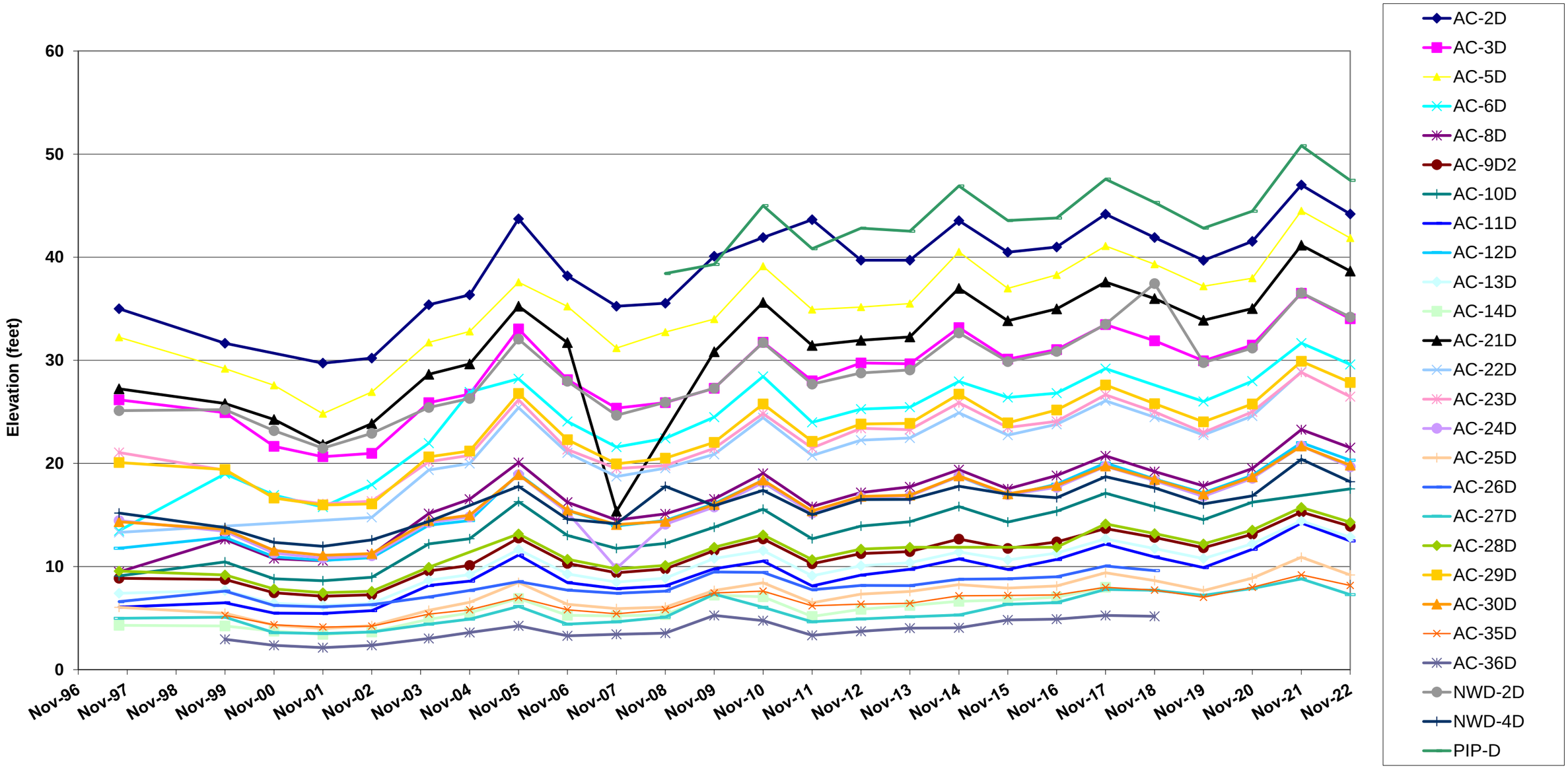
List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.4°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX B

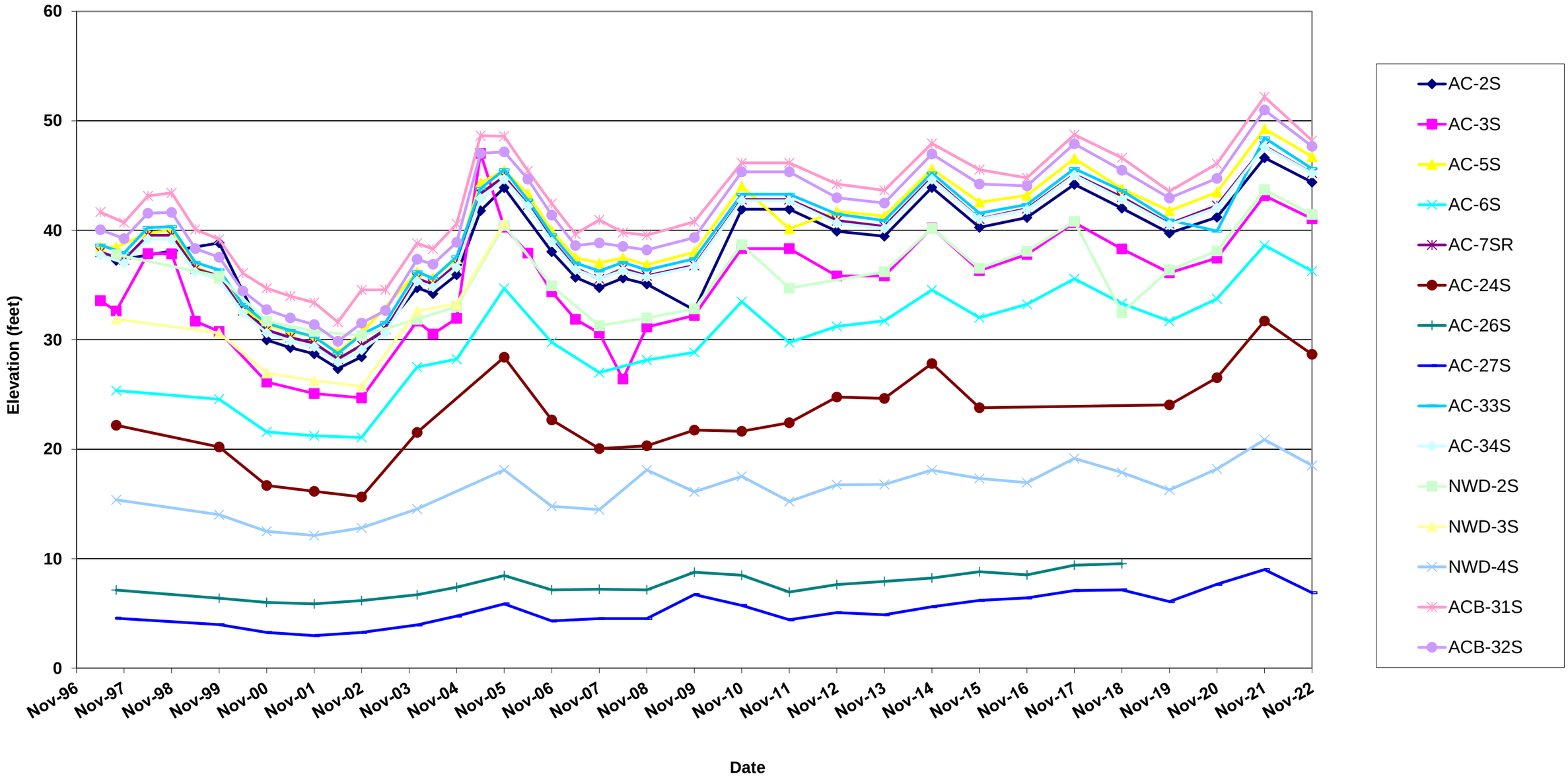
Appendix B
Groundwater Elevation Trend in Main Producing Zone

Agrico Site
Pensacola, FL



Appendix B
Groundwater Elevation Trend in Surficial Zone

Agrico Site
Pensacola, FL



APPENDIX C

AECOM

MEMORANDUM

To:	Alex Webster (FDEP NW District) Billy Hessman (FDEP, Tallahassee) Tim Haag (ECUA) Tom Brown (NWFWMD) L. Derrik Owens (City of Pensacola) Mark Spitznagel (ECHD) Chips Kirshenfeld (Escambia County) Alan Hagans (FDOT Chipley)	From: Date:	Amy Mixon, P.E. AECOM Tallahassee February 21, 2022

Subject: Institutional Controls Coordination
Agrico Site, Pensacola, Florida

As part of the U.S. Environmental Protection Agency (EPA) approved Remedial Action Work Plan for Operating Unit Two (OU-2) (November 1998), periodic communications are planned with the agencies to verify that existing institutional controls remain in place. The purpose of this Memorandum is to solicit, in writing, information on any changes in existing or any proposed new regulatory requirements that may affect the existing institutional controls pertaining to the Agrico Site.

SITE SUMMARY

Monitored Natural Attenuation Results

Statistical monitored natural attenuation (MNA) evaluations were prepared in 2009 and 2013. Additionally, annual trend plots are prepared for all constituents analyzed for each sampling location. The reports and trend plots in each annual report that are submitted to EPA and the Florida Department of Environmental Protection (FDEP) continue to show that mechanisms for attenuation are in place throughout the OU-2 area. These mechanisms, and the OU-1 source remedy, are propagating downgradient toward Bayou Texar, as expected. For the plume area, the highest concentrations for each constituent are declining and downgradient peaks are less than historical highs. It is estimated from statistical evaluation following EPA MNA guidance that much of the groundwater will reach the target concentrations within two to three decades. However, the discharge area near Bayou Texar may take longer. The processes at this discharge boundary are more complex and do not follow the upgradient time line. Additionally, radium declines may lag behind the other constituents. Radium concentrations are more dependent on increases in pH as the overall chemical conditions improve upgradient. Initial fate and transport modeling performed for the site in the early 1990s suggested targets would not be reached for at least 70 years. Twenty-four years has passed since the source controls were implemented. The approximately 45 years remaining is still reasonable and well within the targets estimated with the statistical evaluation.

Groundwater Sampling Results

Groundwater sampling at the site has been conducted since 1999. The groundwater sampling network has been modified beginning in November 2015 to a select set of sampling locations for the Agrico site per discussions with the FDEP and approval by EPA on March 10, 2015.

Annual groundwater (the 24st year of sampling) monitoring was conducted in November 2021.

Groundwater results for November 2021 continue to compare favorably to past results. Overall concentration trends within the surficial zone are downward and the impact extent is shrinking. Impacts are limited for this zone. This is a direct result of effective source remediation and the local hydrogeologic conditions.

For the deeper main producing zone, the trend in concentrations is generally downward and stable, also indicating continued plume stability.

Slight upward or downward ticks in the trends for the constituents of concern (COCs) are to be expected over time. It is the long-term trend for each of the COCs that is important.

Groundwater Levels

Results of water level measurements collected in November 2021 indicate that groundwater flow remains toward Bayou Texar for both the surficial zone and main producing zone. In 2021, groundwater flow patterns closely followed historical patterns.

Bayou Texar Sampling Results

An assessment of potential impacts downgradient of the Agrico groundwater plume was presented to the EPA and the FDEP on September 4, 2009 in the report, "*Conceptual Site Model, Ecological Impact Evaluation of Bayou Texar Downgradient of Agrico's Groundwater Fluoride Plume, September 14, 2009."* The report concluded that there is no completed exposure pathway between populations of demersal fish and benthic receptors in the Bayou downgradient of the Site and concentrations of fluoride in pore water and near-bottom surface water that potentially would cause adverse effects to the populations of dermersal fish and benthic receptors. The report also concluded that the fluoride solubility in the surface sediments and in pore waters within the groundwater plume discharge area is controlled by mineral precipitation reactions that are responsible for buffering dissolved concentrations of fluoride. This report was approved by EPA on September 20, 2010. The approval modified the report recommendations to include three surface water sampling locations as part of the annual sampling for the site.

Surface water sampling was conducted in November 2021. Sampling continues to show concentrations in the bayou at levels well below the surface water standard (5 mg/L) for fluoride.

INSTITUTIONAL CONTROLS

Several rules, regulations and policies already exist which control the use of groundwater within the OU-2 area. These serve as institutional controls, and include:

1. Approval of well construction and consumptive use is a function of the Northwest Florida Water Management District (NWFWMD). On February 22, 2001 the NWFWMD Governing Board passed a well construction moratorium for the area bounded to the north by Hyatt Street, Wynnehurst Street, Kenneth Street, Boxwood Drive and Brookside Place; to the west by the CSX Railroad; to the south by East Cross Street; and to the east by Bayou Texar. This moratorium applies to all new well construction within the designated area except monitoring wells and encompasses both the Agrico and Escambia Treating Company areas. The moratorium remains in effect during 2022. Checking of NWFWMD drilling permits indicates that no well construction permits were issued within the Agrico OU-2 area during 2021.

2. Access is restricted on the Agrico site. The property is secured by a perimeter chain link security fence and locked gates. Restrictive and site information signs are posted advising the public of the on-site conditions, and a contact phone number is also posted for inquiries. The site is routinely inspected by authorized personnel and inspection reports on the site conditions are completed twice a year. Additionally, the site is inspected after each major storm event. Any damages found are repaired. Construction or related activities which would interfere with maintaining the site remedial measures are prohibited by the legal deed restrictions. Any use of the property contrary to the Record of Decision is prohibited, as per covenants filed for the property.

3. The location of the Agrico plume is well characterized and documented. Because this information is submitted to the Emerald Coast Utilities Authority (ECUA) and other agencies in an annual report, and because of the NWFWMD well moratorium, it is highly improbable that future municipal wells will be located in the vicinity of the site. It should also be noted that non-Agrico groundwater impacts are present outside of the Agrico plume. To the north of the Agrico site, groundwater impacts have been caused by the Escambia Treating Company (ETC) site. This plume intrudes into the Agrico area to the south. Also, south of the Agrico plume, the FDEP is assessing a site referred to as Site 348. This site has reportedly contributed to groundwater

impacts to the south of the Agrico plume. The Site 348 plume has the potential to intrude into the Agrico area, and Site 348 has similar COCs to those of Agrico. This site is being assessed for possible impacts to ECUA wells, including F& Scott Streets well, No. 9 well, and East Plant well. Groundwater from Site 348 moves easterly and may discharge into Bayou Texar, if not affected by pumping from F & Scott Streets Well. Additionally, other sources of groundwater impacts exist within and in the near proximity of the Agrico plume and include releases from petroleum and dry-cleaning related sites as documented by the FDEP.

4. The ECUA regularly samples and analyzes water being pumped from public supply wells. ECUA controls the pumpage from these wells. The cause of current impacts to ECUA wells, as noted above, is the subject of an ongoing assessment by the FDEP. Pumping of both East Plant and well No.9 has been discontinued. The F& Scott Street well is still active and within a distance from Site 348 impacts that pumping influences could potentially draw the Site 348 plume toward this active well.

5. In 1997, the NWFWMD established 7-year and 20-year capture zones around each ECUA water supply well. These captures zones constitute the wellhead protection area for each well (Richards, Pratt, and Milla, December 1997, Wellhead Protection Area Delineation in Southern Escambia County, Florida; Water Resources Special Report 97-4, NWFWMD). The Agrico plume remains outside of the 20-year capture zone for all supply wells. Site 348 lies within the 20- year capture zone for inactive ECUA Well No. 9, and Site 348 lies near the designated capture zone for active ECUA Well F & Scott.

6. The Designated Area has been established by the FDEP and regulated by Florida Administrative Code, Chapter 62-524, FDEP rules. New potable well permitting requirements must be met to install a new potable water well. This designated area is the same as the area defined in item number 1. At this time, the NWFWMD moratorium is a more stringent restriction than that related to the Chapter 62-524 designation.

The 2021 Annual Report is currently in preparation and will be distributed to you following approval by EPA. It is anticipated this will occur in the June 2022 timeframe.

Five Five-Year Reviews of the Agrico Site have been completed by EPA, and the next is scheduled for 2024. Each Review has concluded that the remedy at the Agrico Site is functioning as intended by the Records of Decision for OU-1 and OU-2 and remains protective of human health and the environment.

Site information is available at the local EPA repository located at:

University Archives and West Florida History Center
University of West Florida Libraries
Building 32
11000 University Pkwy
Pensacola, Florida 32514
850-474-2213

Information stored at the repository includes various project documents. Additionally, a site-specific internet web site has been established at: http://www.agricopensacola.com. The web site contains general information and includes all Fact Sheets for the site as well as pertinent documents for the site.

Please respond in writing concerning any contemplated changes in existing or any proposed new regulatory requirements that may affect the existing institutional controls pertaining to the Agrico Site to Amy Mixon, AECOM, 1625 Summit Lake Drive, Suite 300, Tallahassee, Florida 32317, or send an e-mail to amy.mixon@aecom.com. Your assistance in this cooperative effort is greatly appreciated.

If you have any questions, please contact me at (850) 465-3886.

Sincerely,

Amy R. Mixon, P.E.
Project Manager

ARM:lc

AECOM
1625 Summit Lake Drive
Suite 300
Tallahassee, FL 32317

850-688-9941 tel
www.aecom.com

February 3, 2022 **alan.hagans@dot.state.fl.us**

Mr. Alan Hagans
Florida Department of Transportation District 3
1074 Highway 90
Chipley, Florida 32428

Subject: **Inquiry Regarding Construction Activities**
Fairfield Drive (SR 727) at I-110 (SR 8-A) Roadway ID 48004000
Mile Marker 9.009 at Palafox to Mile Marker 9.490 at I-110 West Ramp
Pensacola, Florida

Dear Mr. Hagans:

Per the U.S. Environmental Protection Agency (USEPA) requirements set forth in the Agrico Chemical Site Operation and Maintenance Plans, this inquiry is submitted to determine if intrusive work into the subsurface soils in the above-referred location is planned by the Florida Department of Transportation (FDOT) for the year 2022. Additionally, this inquiry seeks to determine if there are work activities included in FDOT's five-year plan that will involve intrusive work at Fairfield Drive from Palafox to the I-110 ramp.

If there is additional information that we or the USEPA should be aware of, please let me know.

Please respond in writing regarding receipt of this correspondence. If you have any questions concerning this request, please e-mail me at amy.mixon@aecom.com.

Sincerely,

Amy R. Mixon, P.E.
Senior Project Engineer

APPENDIX D

OU-1 Bi-Annual Inspection Report
Agrico Chemical Site
Pensacola, Florida

ROUTINE FACILITY INSPECTION CHECKLIST AGRICO CHEMICAL SITE, PENSACOLA FLORIDA	SATISFACTORY	UNSATISFACTORY	DATE CORRECTED	INITIALED	REMARKS
GENERAL FACILITY AREA					
Gates and Locks Secured	✓				Locks in place + New gate code
Perimeter Fencing	✓				
Signage	✓				
Roadway Conditions	✓				
COVER SYSTEM					
Surface Water Runoff Controlled	✓				
No Ponding Water On Cover	✓				
No Sideslope or Top Erosion or Gullying	✓				
Topsoil and Vegetation Intact	✓				
Settlement/Cracking Inspection	✓				
SURFACE WATER COLLECTION SYSTEM					
No Obstructions of Culverts or Inlets	✓				small amounts of grass from mowing removed during inspection
Inlet Sediment Controls Intact	✓				
No Erosion of Drainage Ditches or Berms	✓				
Detention Ponds Draining Adequately	✓				
Side Slope Erosion of Detention Ponds	✓				
Leaks, Structural Damage to Inlets, Culverts, or Pipes	✓				

INSPECTED BY: Amy Mixon

SIGNATURE: Amy R Mixon

DATE INSPECTED: 3/18/2022

FOLLOW-UP NOTES:

OU-1 Bi-Annual Inspection Report

Agrico Chemical Site
Pensacola, Florida

ROUTINE FACILITY INSPECTION CHECKLIST AGRICO CHEMICAL SITE, PENSACOLA FLORIDA	SATISFACTORY	UNSATISFACTORY	DATE CORRECTED	INITIALED	REMARKS
GENERAL FACILITY AREA					
Gates and Locks Secured	✓				
Perimeter Fencing	✓				
Signage	✓				
Roadway Conditions	✓				
COVER SYSTEM					
Surface Water Runoff Controlled	✓				
No Ponding Water On Cover	✓				
No Sideslope or Top Erosion or Gullying	✓				
Topsoil and Vegetation Intact	✓				
Settlement/Cracking Inspection	✓				
SURFACE WATER COLLECTION SYSTEM					
No Obstructions of Culverts or Inlets	✓				
Inlet Sediment Controls Intact	✓				
No Erosion of Drainage Ditches or Berms	✓				
Detention Ponds Draining Adequately	✓				
Side Slope Erosion of Detention Ponds	✓				
Leaks, Structural Damage to Inlets, Culverts, or Pipes	✓				

INSPECTED BY: J. Fletcher

SIGNATURE:

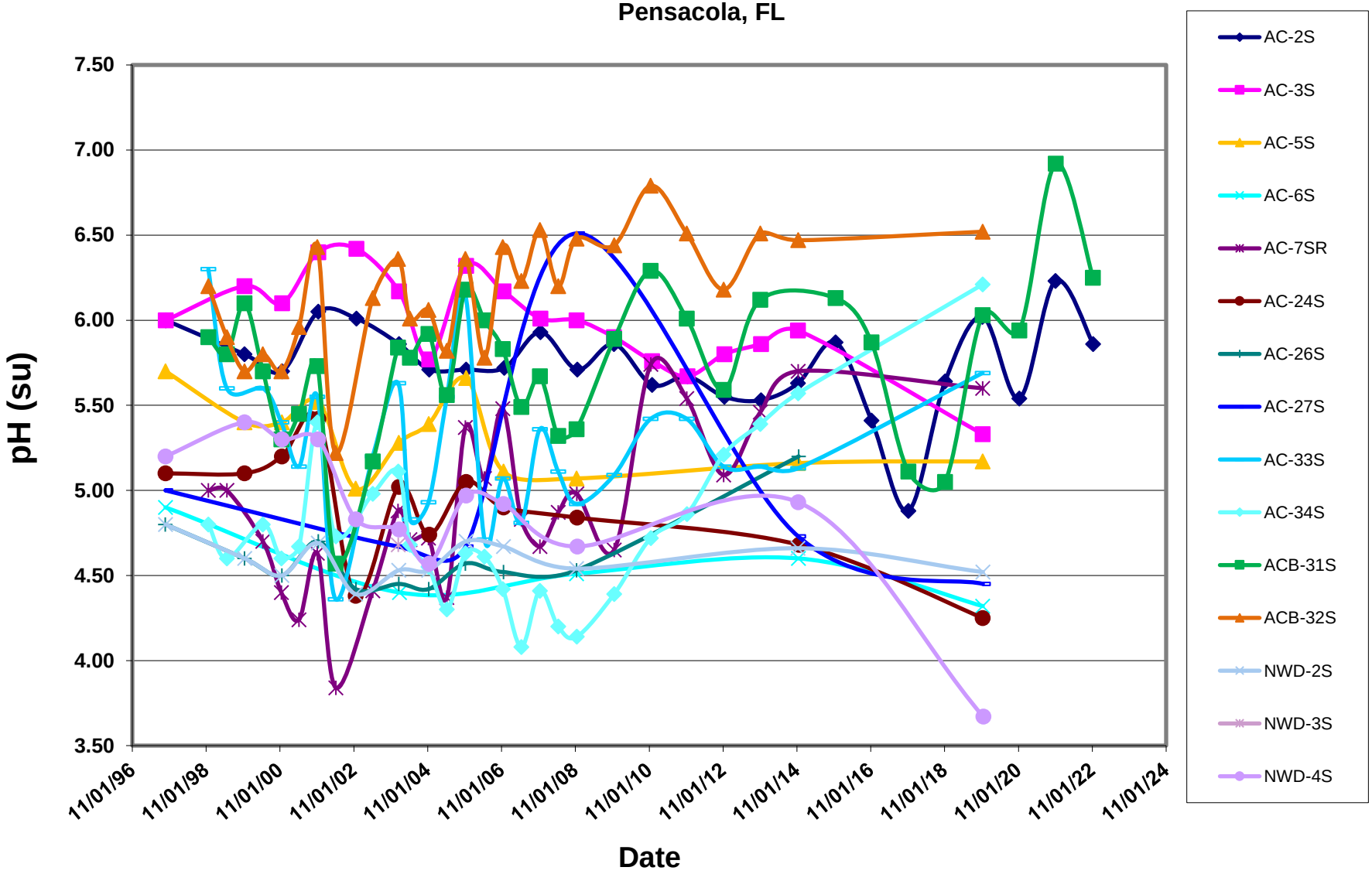
DATE INSPECTED: 11/8/22

FOLLOW-UP NOTES:

APPENDIX E

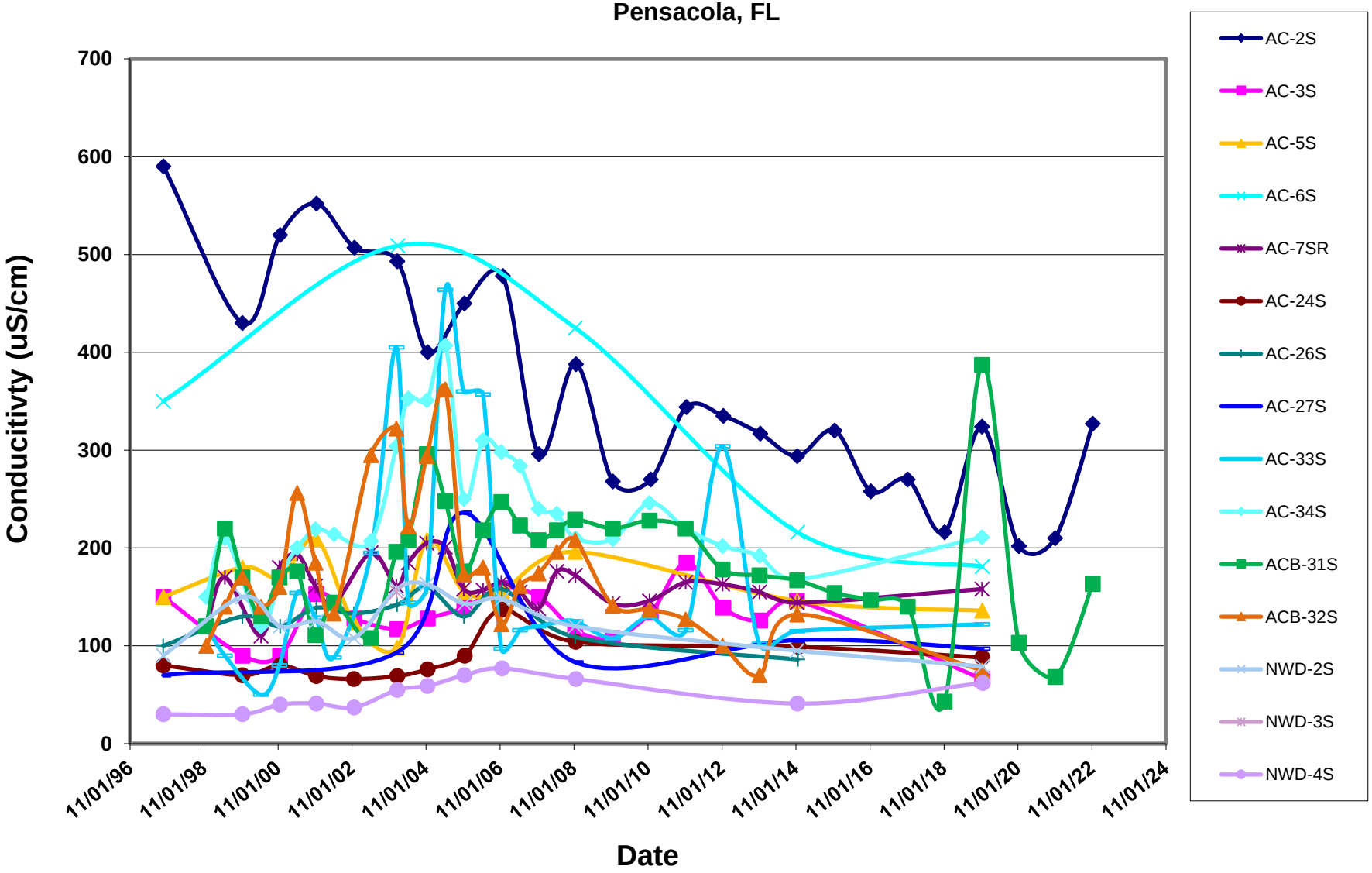
Appendix E
pH Trend in Surficial Zone

Agrico Site
Pensacola, FL

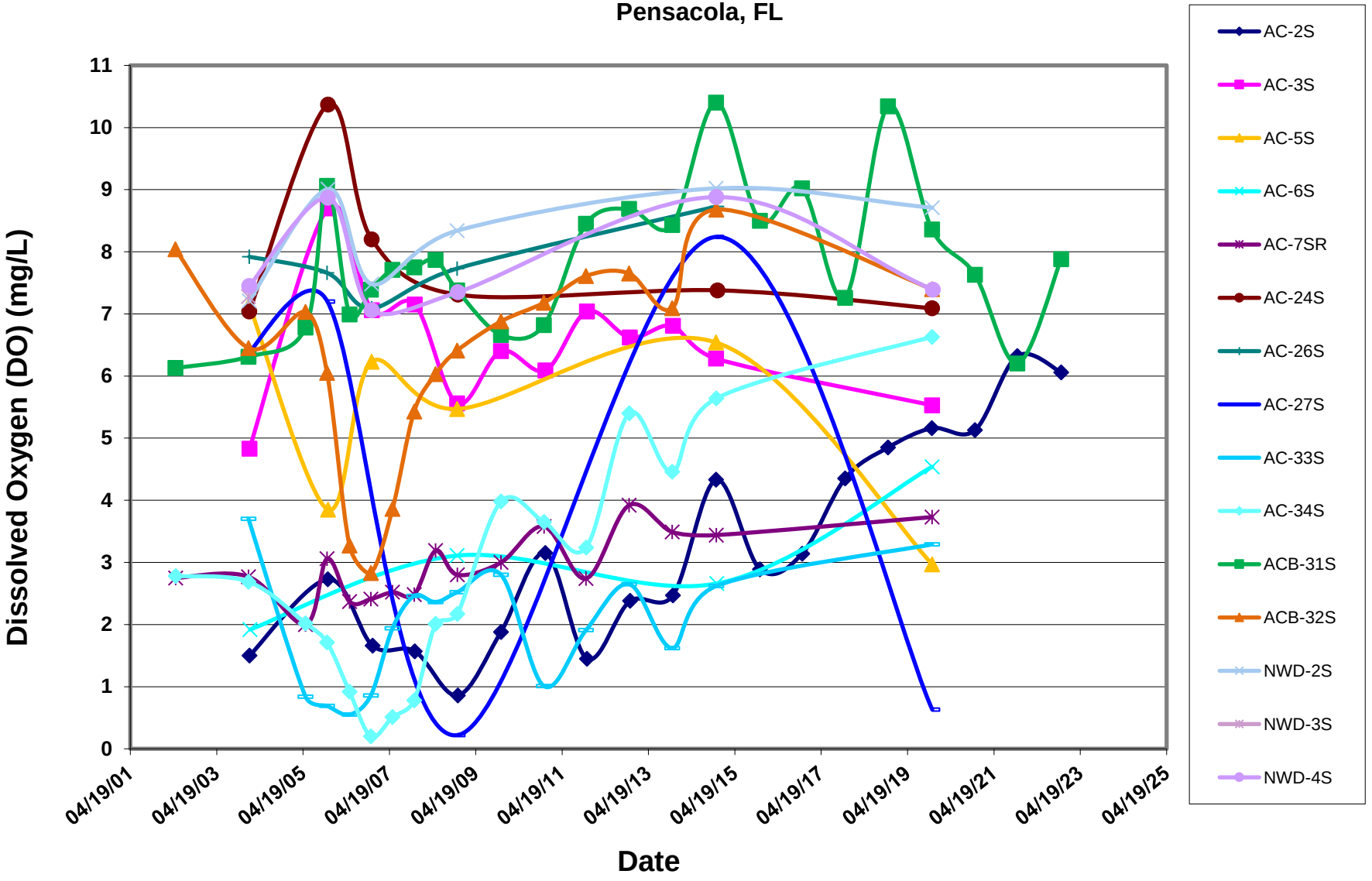


Appendix E
Conductivity Trend in Surficial Zone

Agrico Site
Pensacola, FL

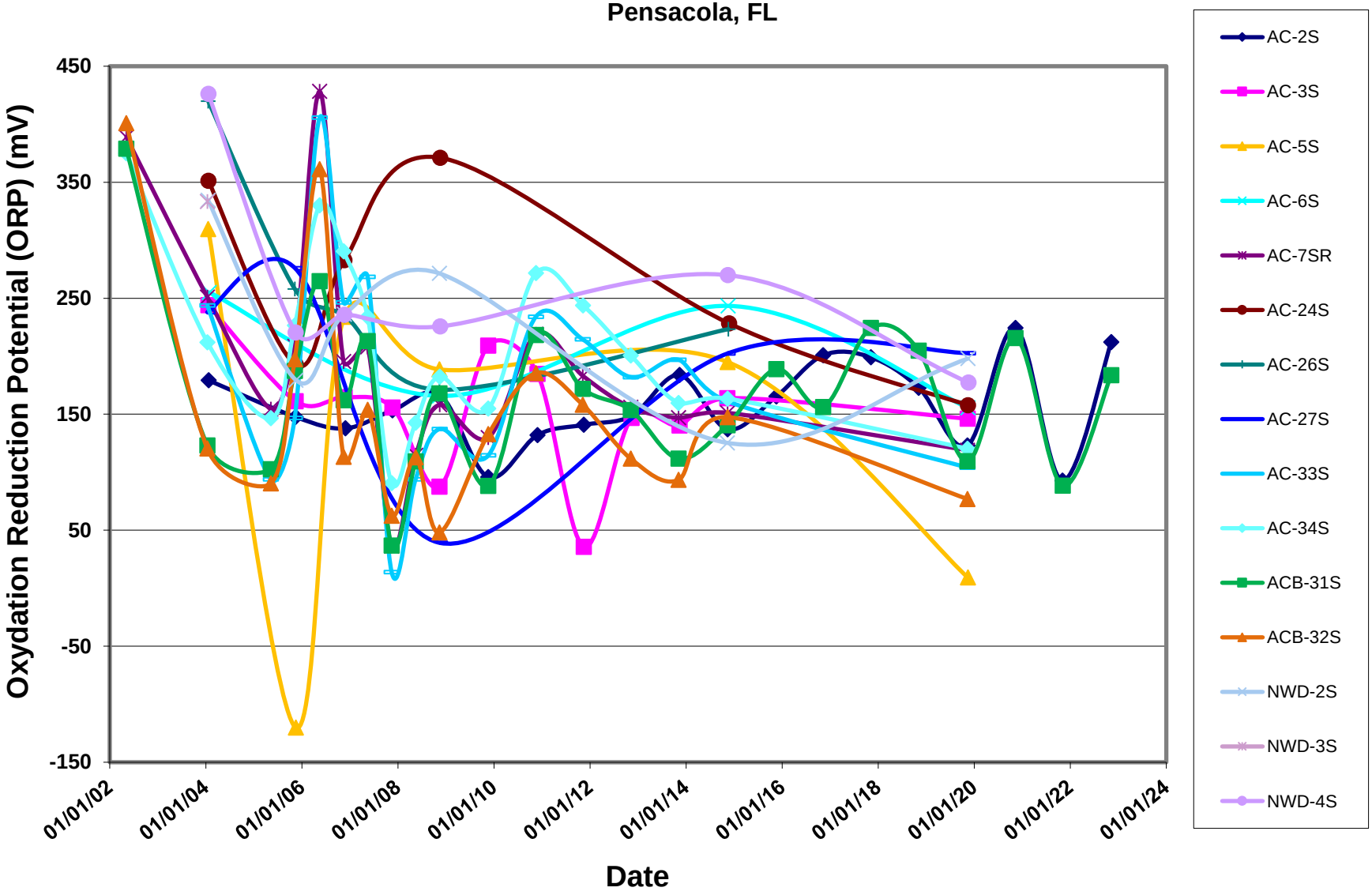


Appendix E
Dissolved Oxygen Trend in Surficial Zone



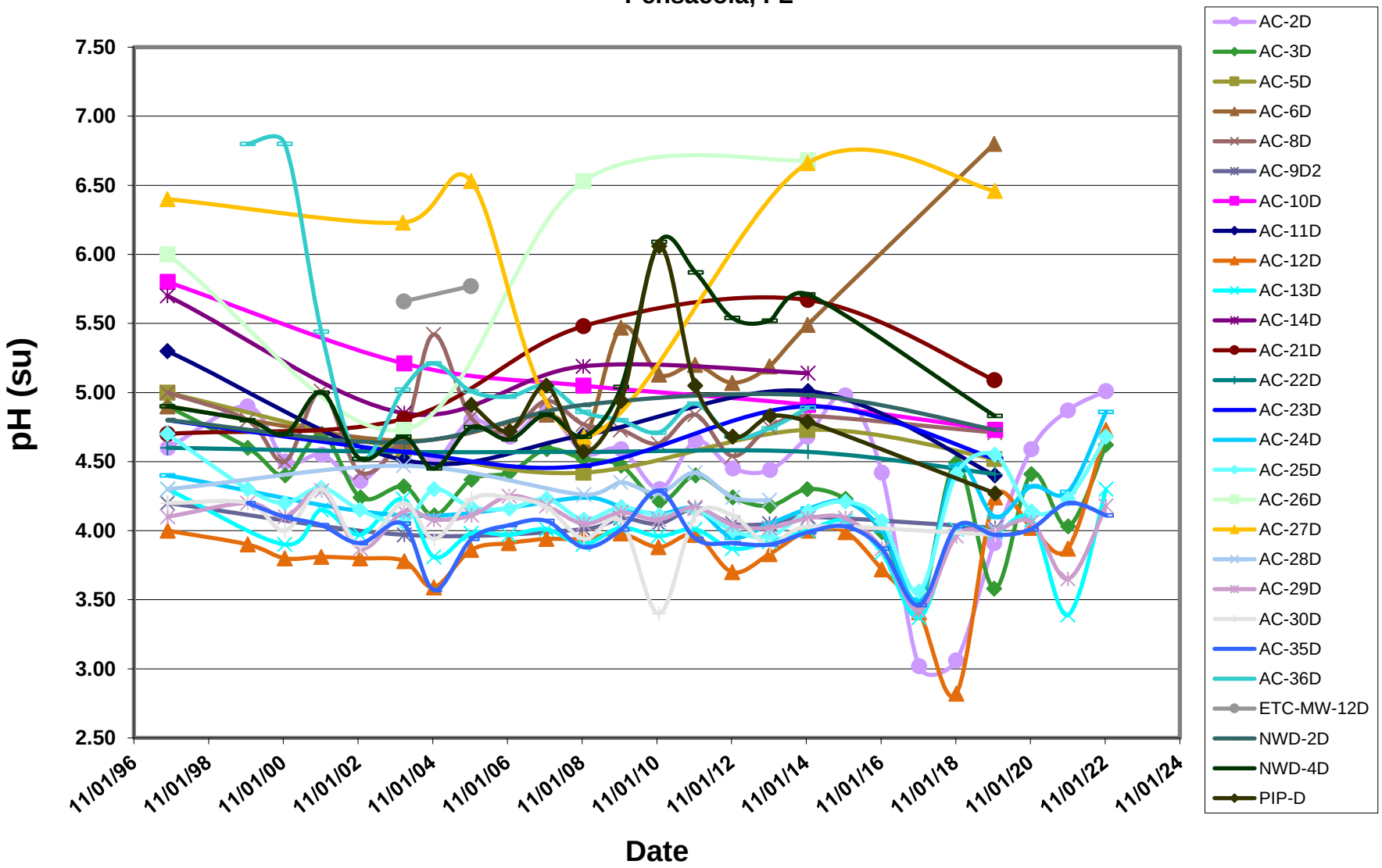
Appendix E
Oxydation Reduction Potential Trend in Surficial Zone

Agrico Site
Pensacola, FL



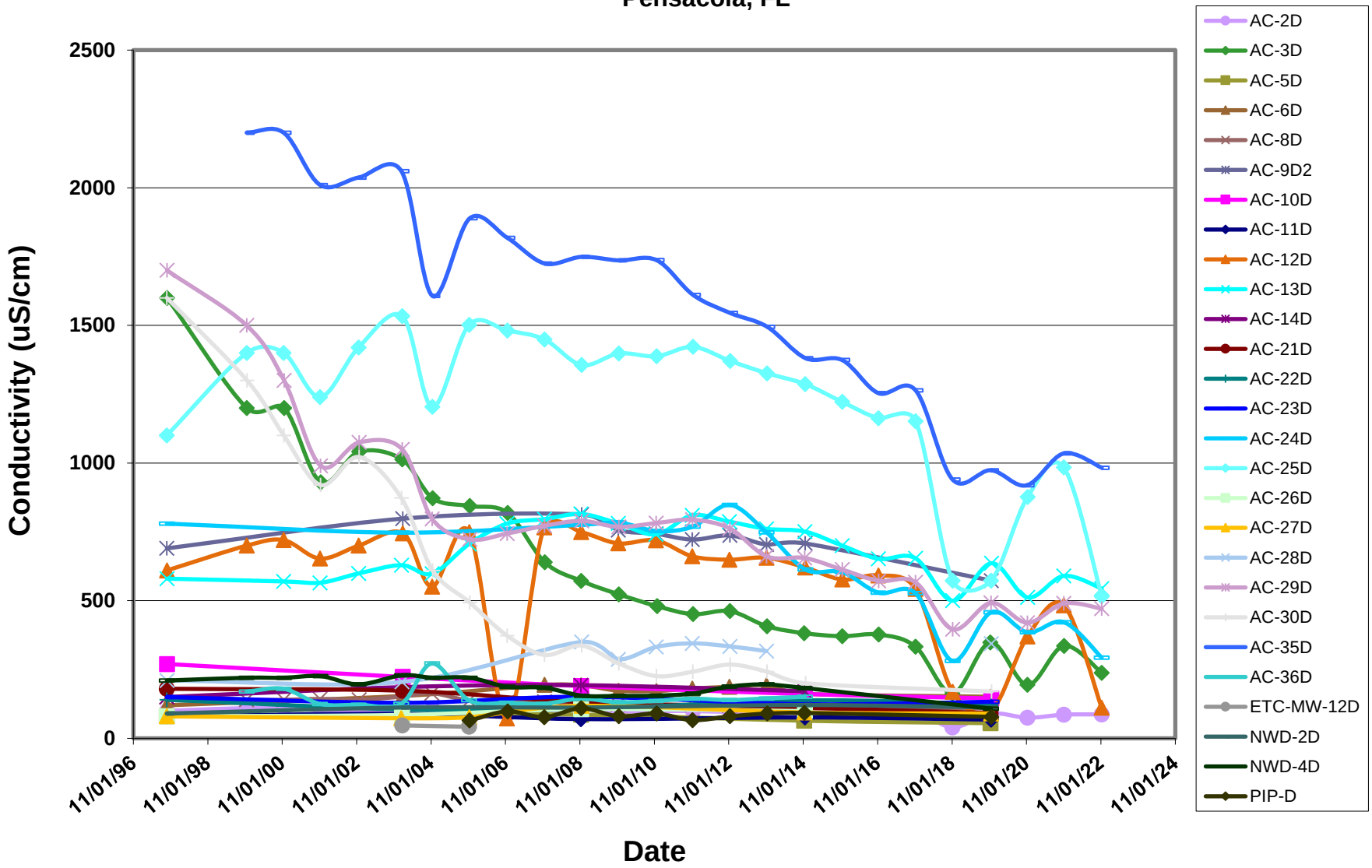
Appendix E
pH Trend in Main Producing Zone

Agrico Site
Pensacola, FL



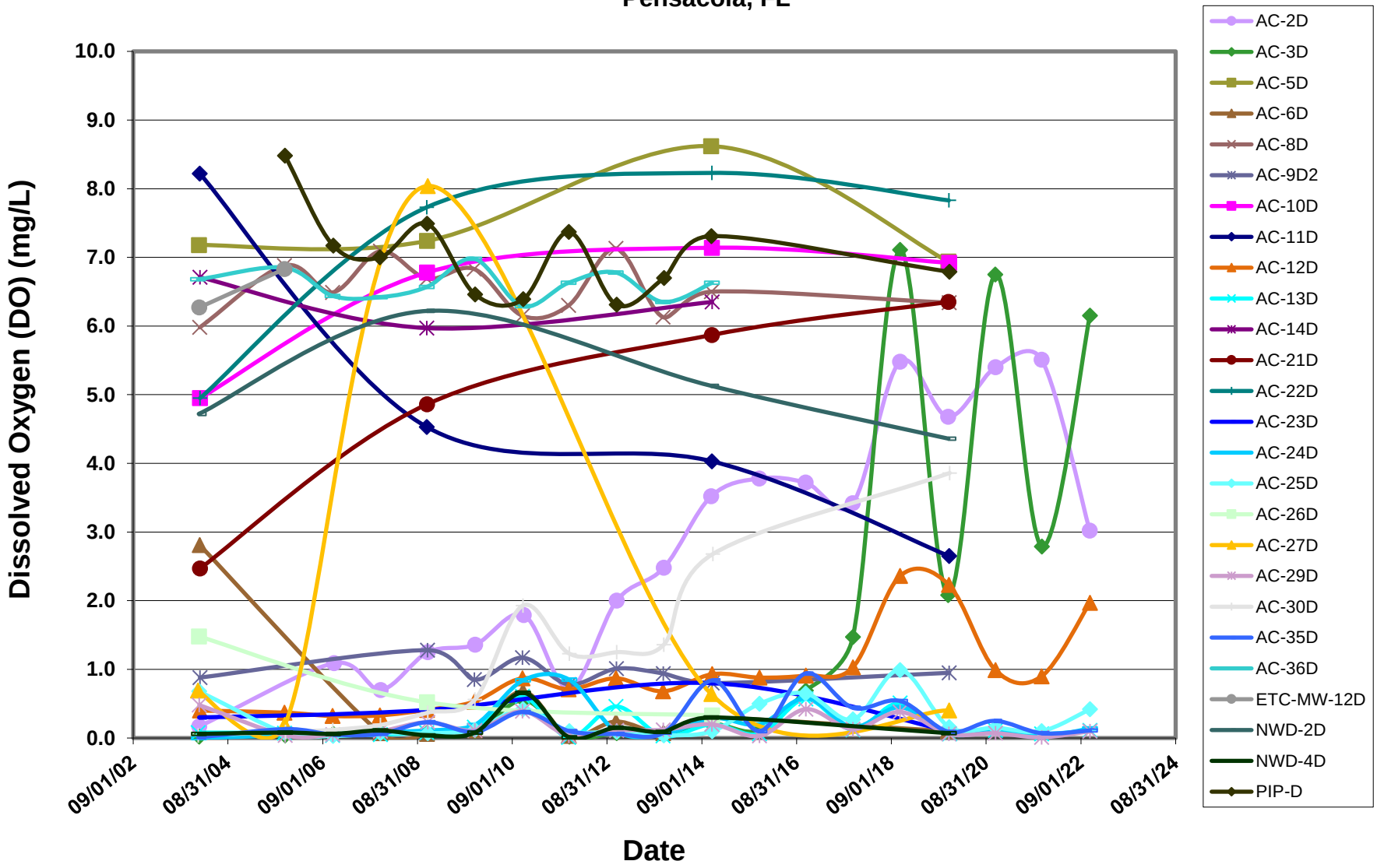
Appendix E
Conductivity Trend in Main Producing Zone

Agrico Site
Pensacola, FL



Appendix E
Dissolved Oxygen Trend in Main Producing Zone

Agrico Site
Pensacola, FL



Appendix E
Oxydation Reduction Potential Trend in Main Producing Zone

Agrico Site
Pensacola, FL