

ERDF Interface Meeting Minutes Building MO-607

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy
under Contract 89303320DEM000030



P.O. Box 1464
Richland, Washington 99352

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Date Published
March 2021

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 **CPC** Co
Central Plateau
Cleanup Company
P.O. Box 1464
Richland, Washington 99352

APPROVED

By Julia Raymer at 12:31 pm, Mar 08, 2021

Release Approval

Date

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SUBJECT

**ERDF Interface Meeting Minutes
Building MO-607**

TO

Distribution

FROM

B. L. Lawrence

DATE

March 3, 2021

ATTENDEES

R. Armijo (EPA), A3-46
W. A. Borlaug, T2-03
C. E. Cameron (EPA), A3-46
D. A. Duranceau, T2-05
S. R. Horn, T4-09
C. H. Larson, T2-03
B. L. Lawrence, T2-03
B. A. Stetter (RL), H5-20
D. B. Teachout, T2-03

DISTRIBUTION

Attendees
J. E. Bramson, A6-01
J. M. Curnutt, T2-07
K. A. Ebert, H6-60
J. Johanson, L4-45
D. R. Hildebrand (RL), A6-38
S. L. Trine (RL), R3-50
Administrative Records

A meeting was held on March 3, 2021 at Central Plateau Cleanup Company (CPCC) via the Microsoft Team Meeting application and these minutes are a summary of the discussions.

ADMINISTRATIVE

- Next ERDF Interface Meeting – The next meeting is scheduled for Wednesday, March 17, 2021.
- Attendees/Delegations – Representatives from the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy, Richland Operations Office (RL) were present to conduct the business of the meeting.
- Approval of Minutes – Meeting minutes from the February 17, 2021 meeting were approved.
- Agenda – Attachment 1 is the meeting agenda.

TOPICS DISCUSSED

Operations – Dave Duranceau

- **Status General Operations**
 - ERDF disposed over ~100 roll-on/roll-off (RO/RO) waste containers from 100K and the PFP/WARP projects.
 - ERDF is performing normal facility operations and maintenance.
- **Waste Forecast**
 - ERDF will continue to receive waste from the 100K and PFP/WARP projects.

Engineering – Bill Borlaug

- **Diesel Tank – Disposal**
 - The WARP project has a large diesel tank proposed for disposal at the ERDF. The tank has been pumped empty of the diesel fuel and about 39 gallons of fuel residual in the tank was solidified. The waste generator has assigned the D018 waste code to the tank.
 - The tank will require to be void filled and macroencapsulated in the disposal cell.
 - The EPA has concerns with the disposal of the tank and has requested that the tank be considered for reuse at the Hanford site.
 - ERDF will continue working on the waste profile for the tank.
 - The potential for re-purposing the diesel tank is being explored.
- **SGW Resin Treatment**
 - The Pump and Treat project is in the process of developing a treatment plan for the spent resin. The proposed treatment process will incorporate the specific mixture of cement and ferrous sulfate.
 - ERDF anticipates using the mix boxes treatment method similar to the treatment of the chromium contaminated soils.
- **ERDF Leachate Sample Data – November 2020**
 - The result from the November 2020 leachate sampling event was present during the meeting (see Attachment 2).

Environmental – Barry Lawrence

- **ERDF Annual Report, CY2019 (ERDF-00105) – DOE and EPA Comments**
 - The CY2019 annual report is being finalized, published, and will be provided to the DOE and EPA.
- **ERDF Fact Sheet – “Plug-In” Waste Disposed under the 2007 ROD – Communications Process**
 - The ERDF Fact Sheet is going through the communications and approval process (see Attachment 3).
- **ERDF Leachate Sampling – Quarterly**
 - The quarterly leachate sampling event was collected last week.
- **Next ERDF Regulatory Interface Meeting**
 - The next meeting is scheduled for Wednesday, March 17, 2021.

Attachment 1

ERDF Regulatory Interface Meeting March 3, 2021

Safety Topic

Operations – Dave Duranceau

- Status Operations
- Waste Forecasts

Engineering – Bill Borlaug

- Diesel Tank – Disposal
- SGW Resin Treatment
- ERDF Leachate Sampling Data – November 2020

Environmental – Barry Lawrence

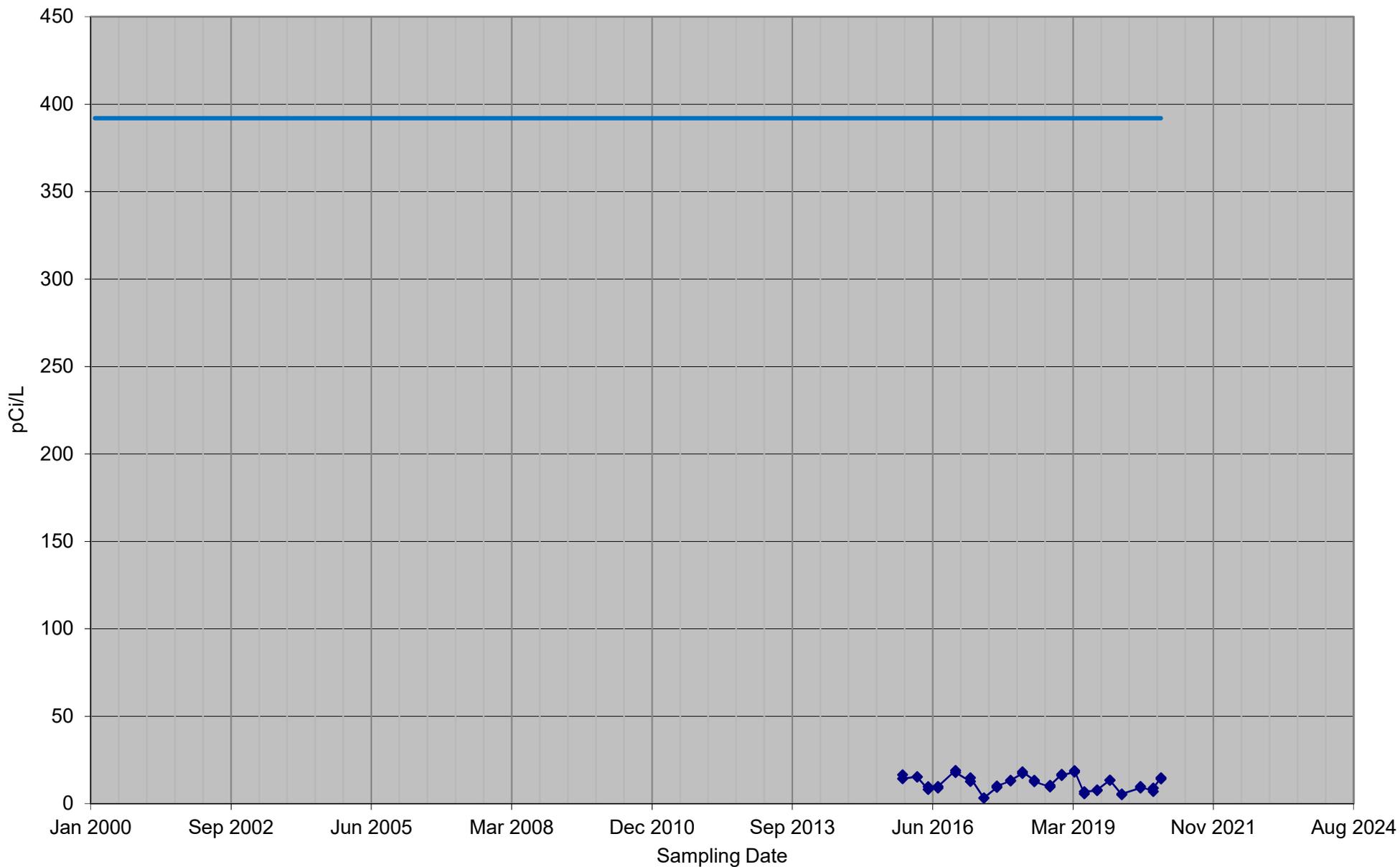
- ERDF Annual Report, CY2019 (ERDF-00105) – Information Clearance Process
- ERDF Fact Sheet – “Plug-In” Waste Disposed under the 2007 ROD Amendment – Communications Process
- Leachate Sampling – Quarterly
- Next ERDF Regulatory Interface Meeting – March 17, 2021

Attachment 2

ERDF Leachate Sample Data – November 2020

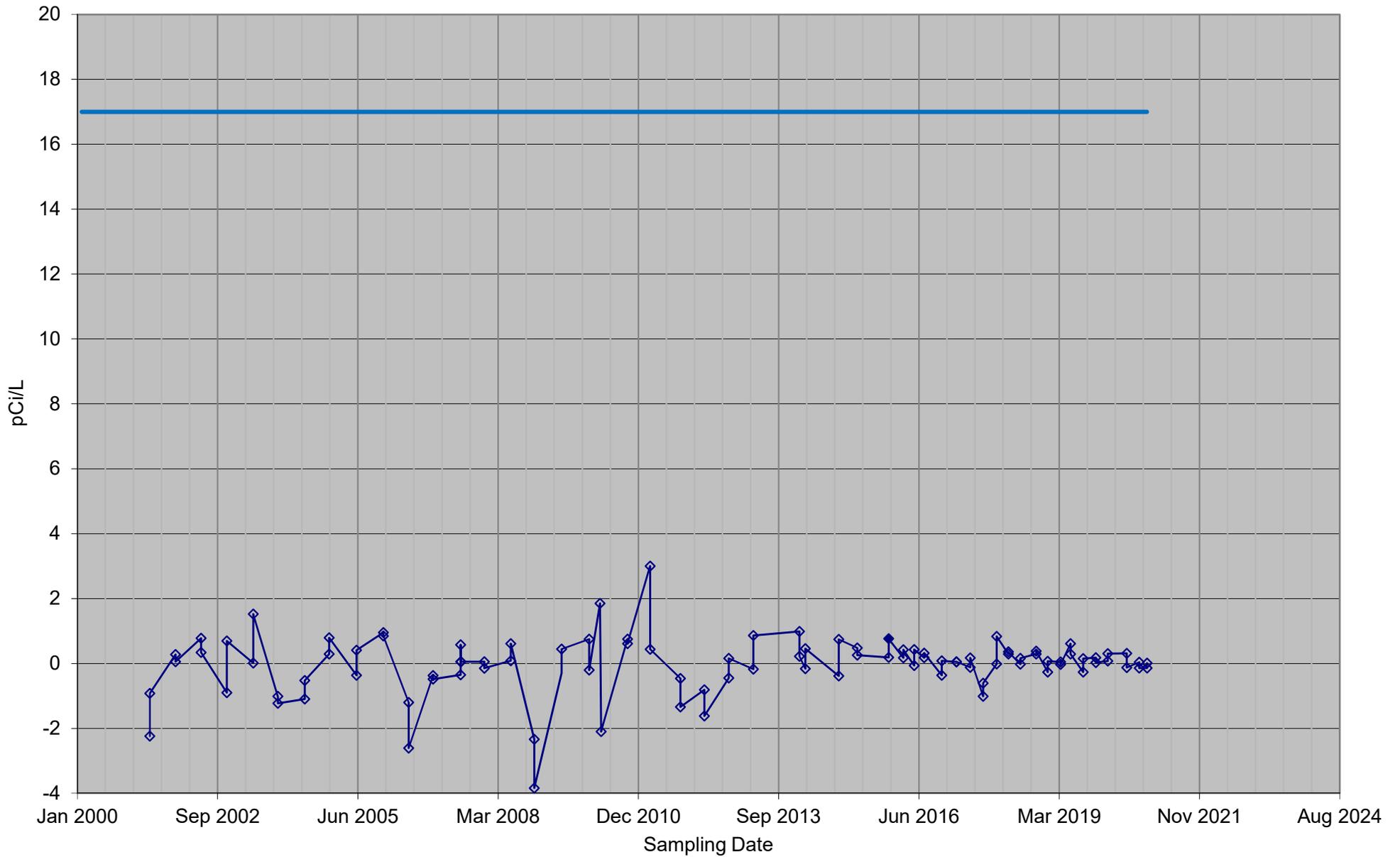
Radioactive Strontium

◆ Rad Sr ERDF Leachate — 200WPTF Action Level (Initiate Active Influent Management)



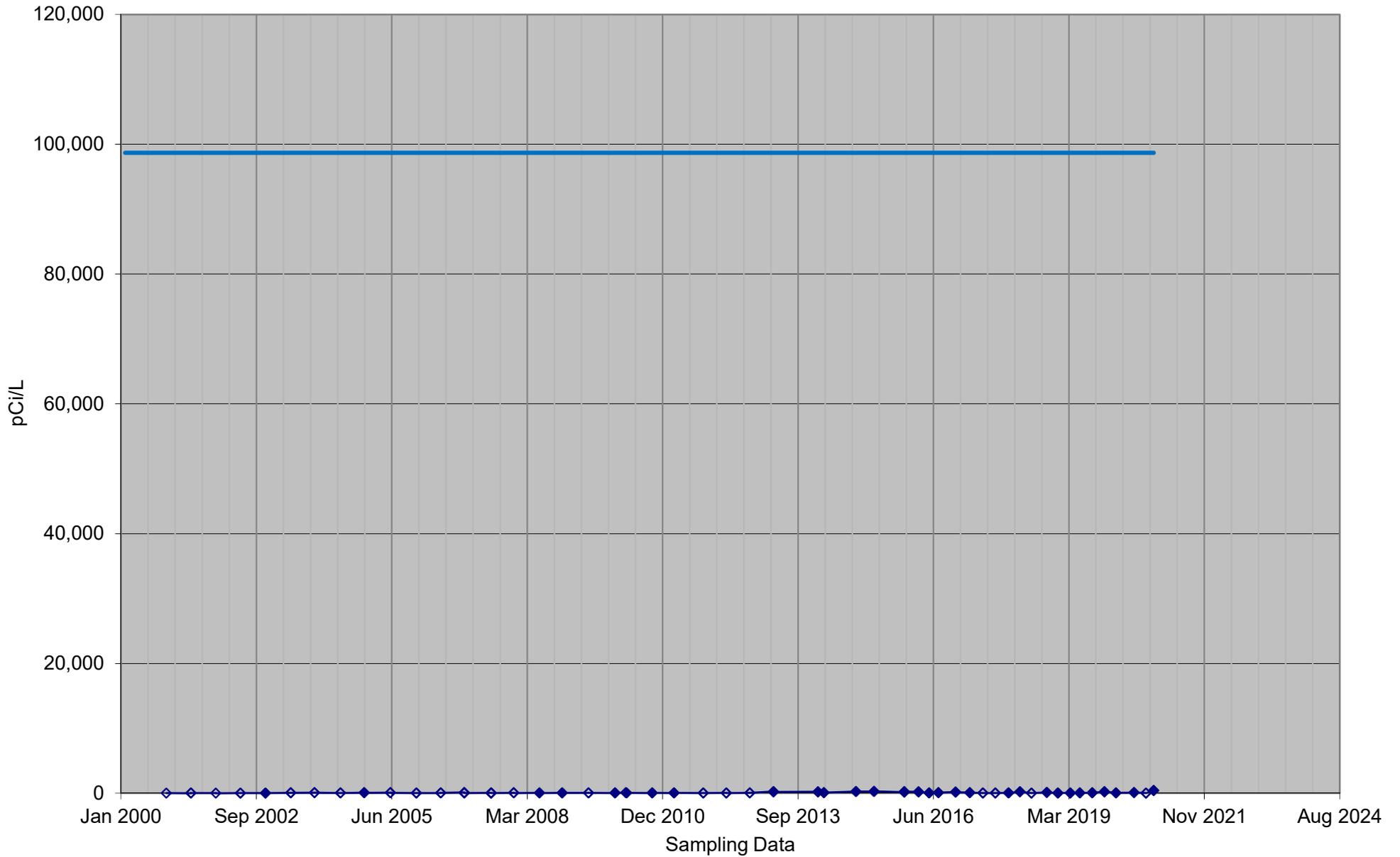
Iodine-129

◆ I-129 ERDF Leachate — 200WPTF Action Level (initiate Active Influent Management)



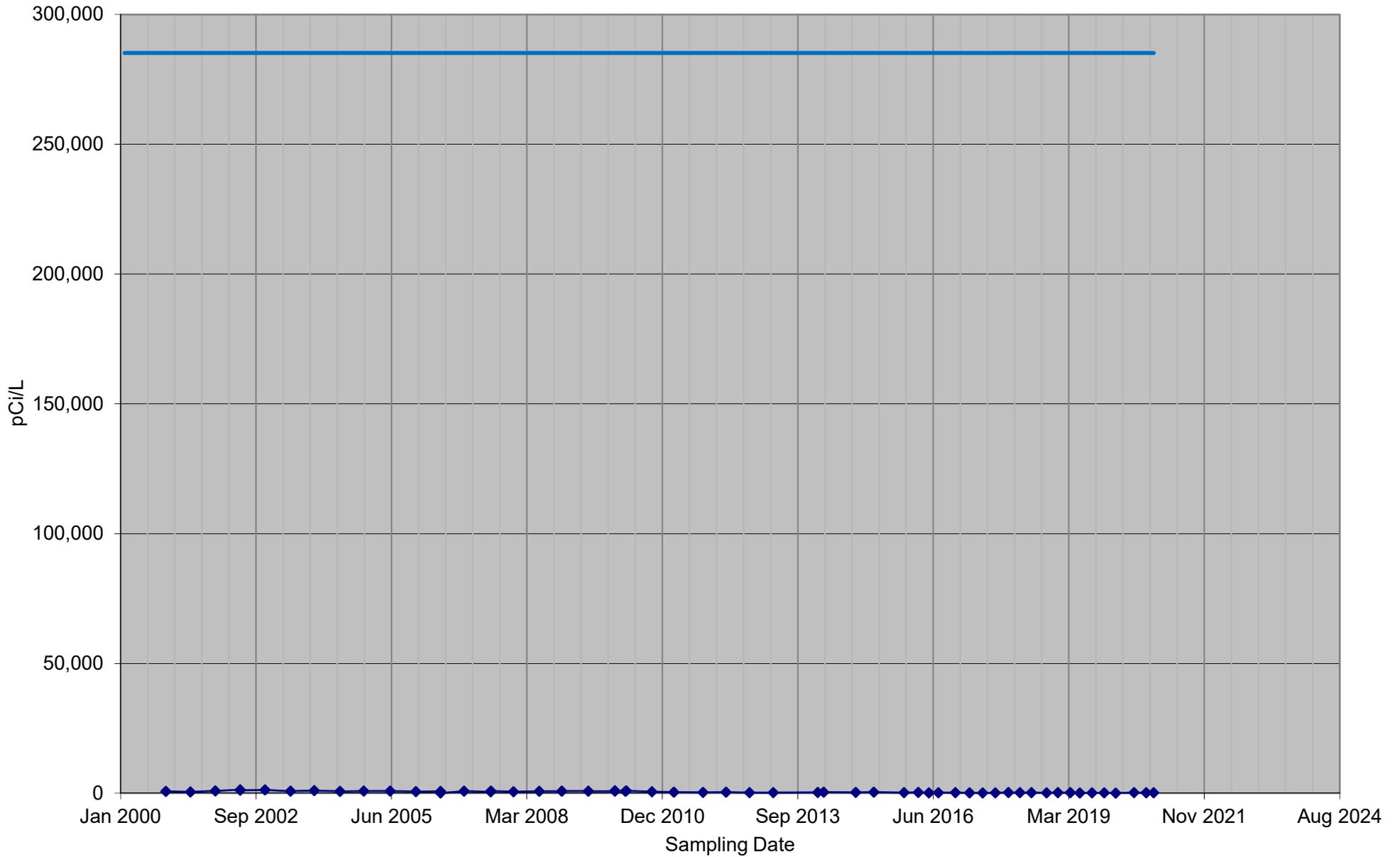
Carbon-14

◆ C-14 ERDF Leachate — 200WPTF Action Level (Initiate Active Influent Management)



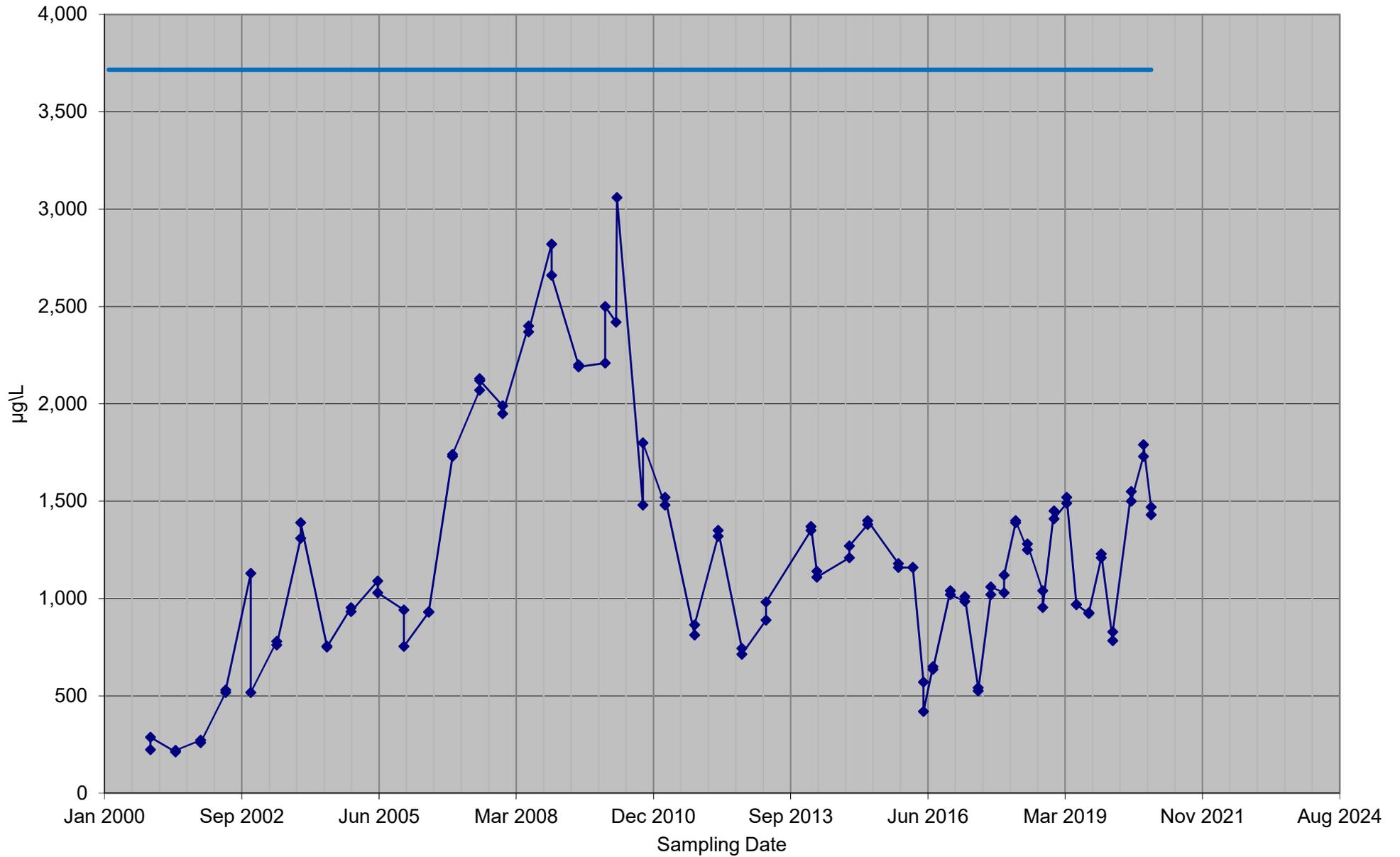
Technetium-99

◆ Tc-99 ERDF Leachate — 200WPTF Action Level (Initiate Active Influent Management)

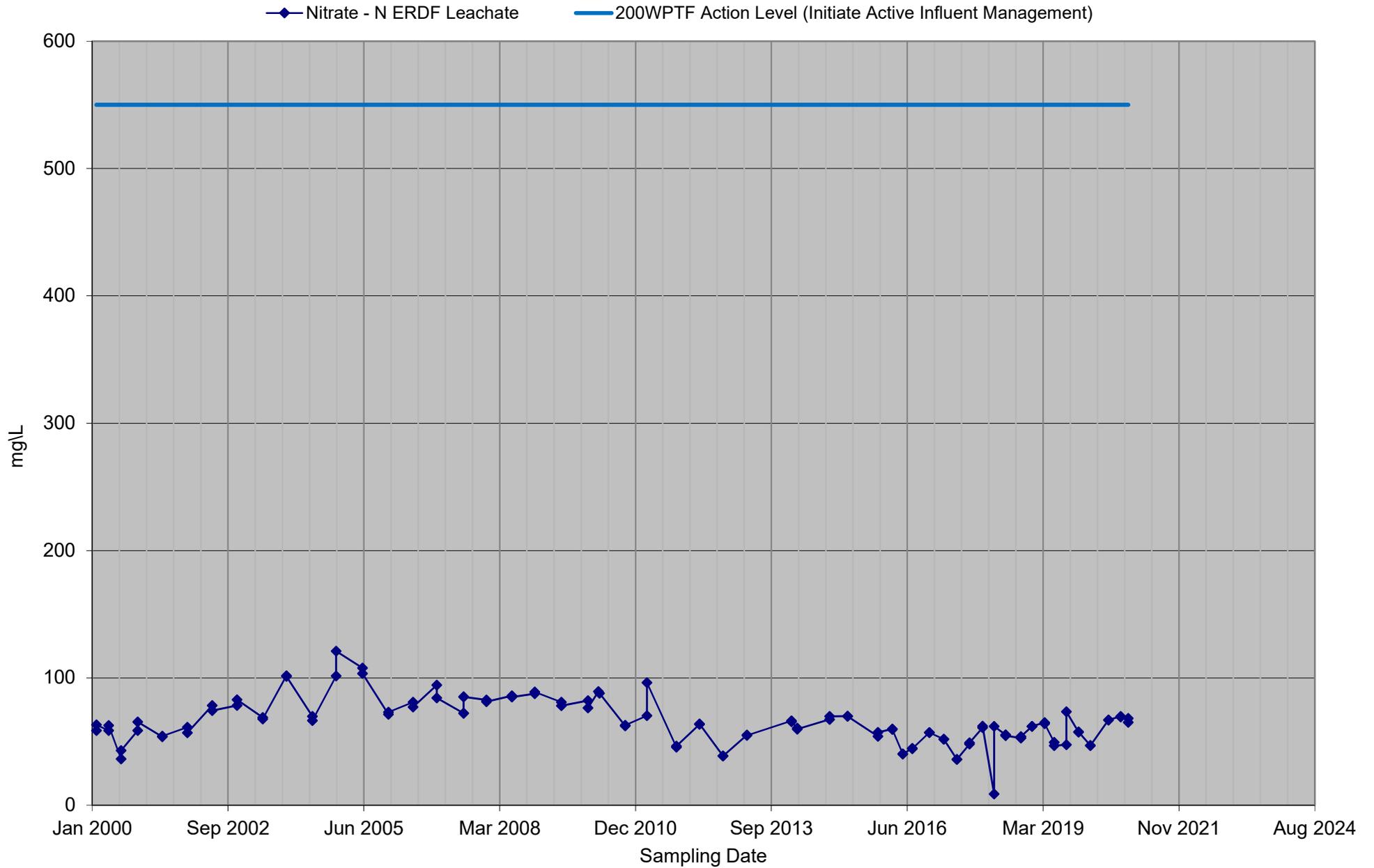


Total Uranium

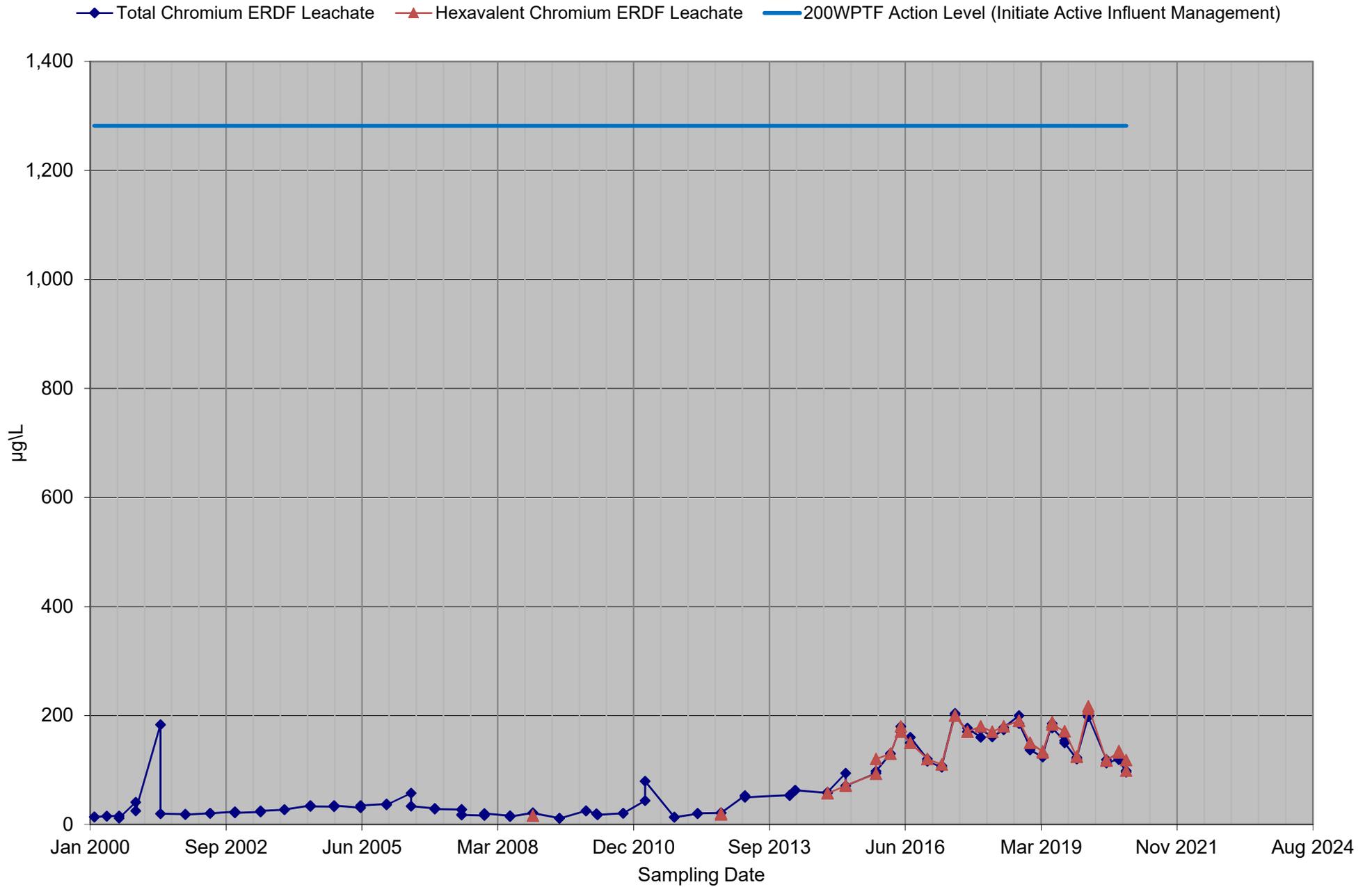
◆ U ERDF Leachate — 200WPTF Action Level (Initiate Active Influent Management)



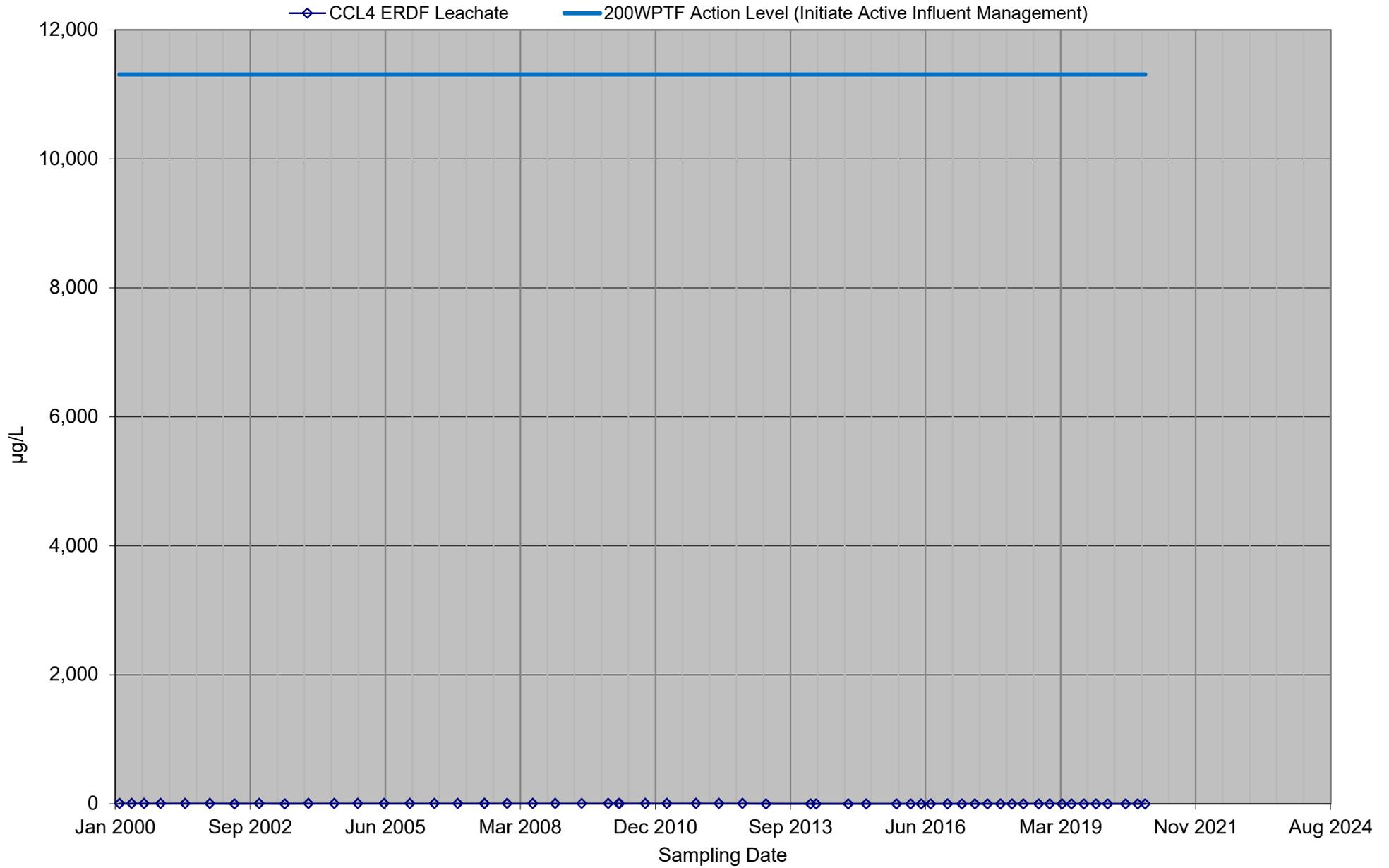
Nitrate as N



Chromium

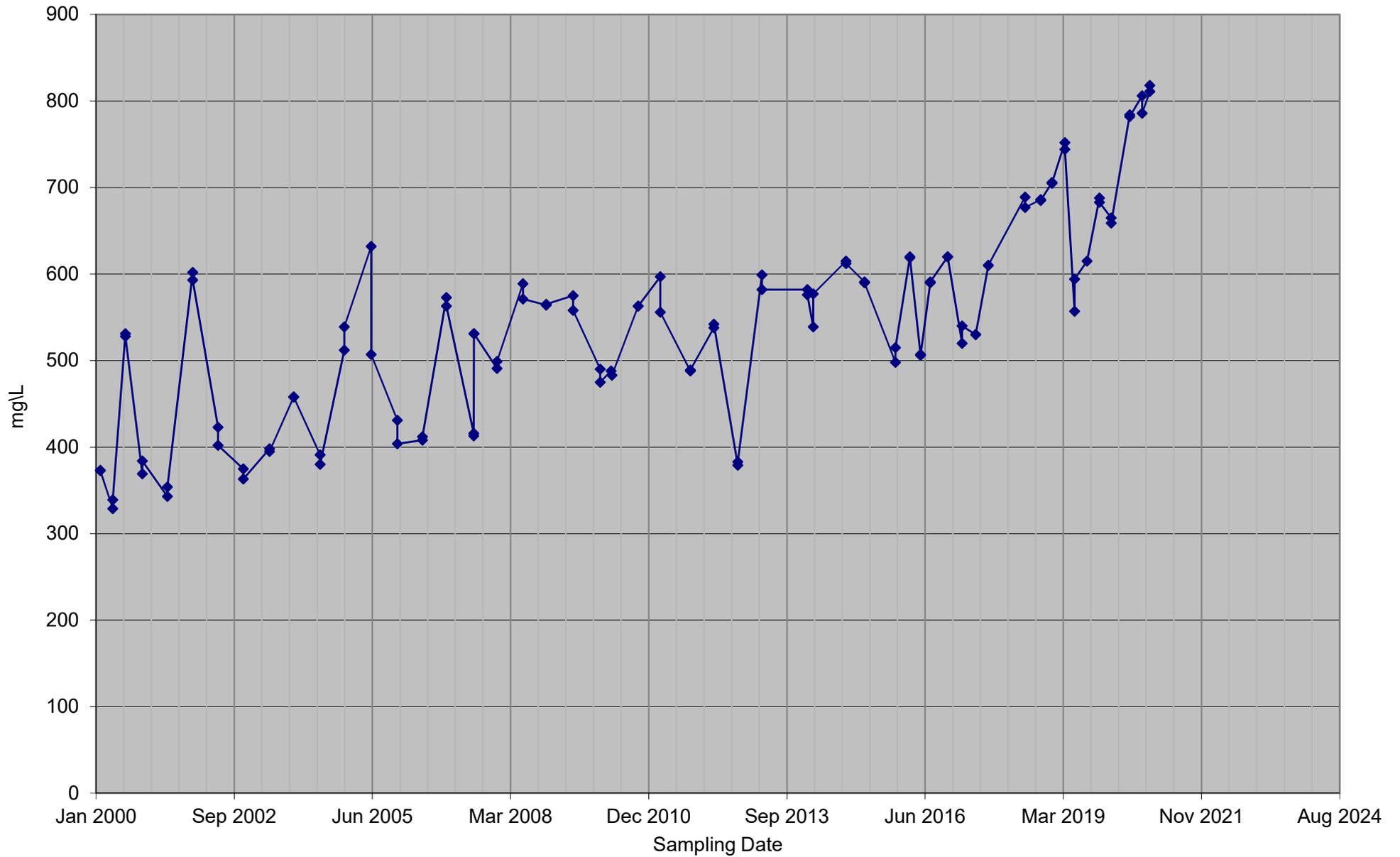


Carbon Tetrachloride



Sulfate

—◆— Sulfate ERDF Leachate



Attachment 3

ERDF Fact Sheet – “Plug-In” Waste Disposed under the 2007 ROD Amendment

The Tri-Party Agreement agencies – the U.S. Environmental Protection Agency (EPA), the Washington State Department of Ecology, and the U.S. Department of Energy – signed a Record of Decision (ROD) authorizing construction of the Environmental Restoration Disposal Facility (ERDF) in January 1995. The ROD provides the overall requirements for design, construction and disposal operations at the facility. The ROD has been amended six times, mostly to authorize expansion of the facility. An amendment in 2007 authorized disposal of some additional Hanford Site waste not previously authorized. This annual fact sheet documents the waste approved for disposal under the “plug-in” approach approved by EPA in 2020.

Background

The 580-square-mile Hanford Site in southeastern Washington state was created in 1943 (the waste) as part of the Manhattan Project to produce plutonium for the nation’s defense program. Today, waste management and environmental cleanup, including protection of the Columbia River, are Hanford’s primary missions.

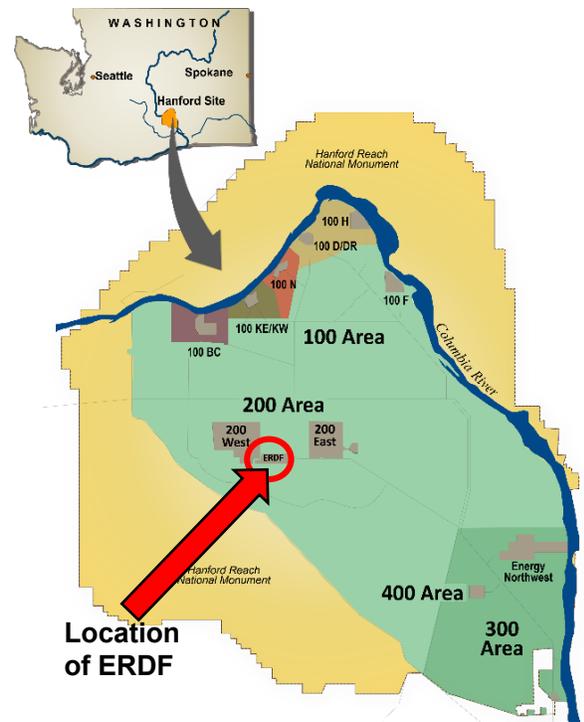
The Environmental Restoration Disposal Facility (ERDF) is a large, engineered landfill in the center of the Hanford Site for the disposal of low-level radioactive, hazardous and mixed wastes generated from Hanford cleanup activities. ERDF is composed of 10 large disposal cells over 108 acres with a waste capacity of 21 million tons. ERDF is regulated by the U.S. Environmental Protection Agency.

The facility is designed to keep the environment safe by isolating waste and leachate (rain and dust-suppression water in contact with the environment). A liner system inside the cells protects the environment from the contents inside. A cover will be placed over the facility when Hanford Site cleanup is completed.

Since operations began in 1996, more than 18.5 million tons of waste has been disposed at ERDF.



Engineered waste containers are staged at ERDF. Waste from Hanford Site operations will be loaded into the cans and returned to the on-site landfill for safe permanent disposal



Environmental Restoration Disposal Facility: Annual Listing of Other Hanford “Plug-In” Waste Sites – 2020

Annual Listing of Other Hanford “Plug-In” Waste Under 2007 ROD Amendment

The Amended Record of Decision (ROD) for the Environmental Restoration Disposal Facility (ERDF) issued in January 2007 authorized the use of a plug-in approach for disposal of Hanford Site-only generated waste at ERDF. In order to be eligible for disposal at ERDF under the plug-in approach, the waste must be approved by EPA and meet the following criteria:

- Be similar to the waste identified in Table 1 of the 2007 ROD Amendment (see table on page 2)
- Meet existing ERDF waste acceptance criteria (WAC) or be capable of meeting the WAC with treatment
- Comply with land disposal restriction (LDR) requirements
- Be generated at the Hanford Site or be derived directly from Hanford Site-generated waste in support of *Resource Conservation and Recovery Act of 1976 (RCRA)* and *Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA)* cleanup actions
- Be compatible for disposal at ERDF
- Not addressed by an existing CERCLA decision document

Summary

The table below summarizes the waste that has been approved for disposal at ERDF under the plug-in approach during calendar year 2020 under the 2007 ROD Amendment:

Similar to Table 1	Meets the ERDF Waste Acceptance Criteria?	LDR Treatment Required?	Generated at the Hanford Site in Support of a Cleanup Action?	Compatible for ERDF Disposal?	CERCLA Decision?	Approved by EPA
Contaminated soils from the construction activities associated with the W-135 Project Capsule Storage Area (CSA).	Yes	No	Approximately 186.3 tons of contaminated soils from the construction activities associated with the W-135 Project Capsule Storage Area (CSA). This waste is generated on the Hanford Site in support of RCRA and CERCLA cleanup actions.	Yes	No	Jan. 23, 2020
Contaminated asphalt road surfacing, railroad ties, and miscellaneous waste (paper, plastic, metal, rubber, glass, PPE, etc.) from the construction activities associated with the W-135 Project Capsule Storage Area (CSA).	Yes	No	Approximately 50.3 tons of contaminated asphalt road surfacing, railroad ties, and miscellaneous waste (paper, plastic, metal, rubber, glass, PPE, etc.) from the construction activities associated with the W-135 Project Capsule Storage Area (CSA). This waste is generated on the Hanford Site in support of RCRA and CERCLA cleanup actions.	Yes	No	Jan. 23, 2020

To request additional information, please contact: Brian Stetter, U.S. Department of Energy, Richland Operations Office, at 509-376-3535 or Brian.stetter@rl.doe.gov

