



Mission Conversion Services Alliance
1010 Monarch Street, Suite 300
Lexington, Kentucky 40513

January 5, 2026

OSMS-MCSA-26-00103

Ms. Amber Pratt, Site Coordinator
Ohio Environmental Protection Agency
Southeast District Office
Division of Environmental Response and Revitalization
2195 Front Street
Logan, Ohio 43138-8637

Prime Contract No. 89303325DEM000122, Portsmouth Paducah Project Office/Operations and Site Mission Support: 5-Day Written Notification Regarding Cylinder Storage Yard Surface Water Runoff Sample Analysis to Ohio Environmental Protection Agency at the U.S. Department of Energy Portsmouth Gaseous Diffusion Plant

Dear Ms. Pratt:

Mission Conversion Services Alliance, LLC (MCSA) is providing the following written documentation in accordance with the reporting requirements of Section IX of the Depleted Uranium Hexafluoride (DUF6) Management Plan, Attachment A of the Director's Final Findings and Orders (DFF&O) dated January 31, 2017. Electronic notification was made to the Ohio Environmental Protection Agency (Ohio EPA) on December 30, 2025, at 9:15 a.m. detailing information known at that time.

On December 29, 2025, at approximately 4:20 p.m. MCSA was notified by its cylinder yard surface water runoff sampling subcontractor that samples collected in November of 2025, were in exceedance of the limits in the DFF&O at the following locations:

- X-745-C2 had an exceedance delta of 0.72 pCi/L for gross Beta
- X-745-C3 had an exceedance delta of 1.97 pCi/L for gross Beta
- X-745-G1A had an exceedance delta of 1.17 ug/L for total Uranium

The MCSA cylinder yard team completed a thorough visual inspection of the X-745C and X-745G Cylinder Yards and found nothing out of the ordinary. In addition to the inspections, radiological surveys were performed along the perimeter of the cylinder yards leading to the C2, C3 and G1A sampling locations. All radiological survey results were below established action levels.

A copy of the November 2025 Radionuclide Sampling Report, the radiological surveys and a map of sampling locations are attached for reference.

Ms. A. Pratt
January 6, 2026

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Page 2 of 2

MCSA will continue to monitor all sample points and notify Ohio EPA of any future exceedances. Should you have any questions, please contact Steve Skeens, Portsmouth Lead Environment, Safety, & Health Manager, at (740) 289-5602 or me at (803) 645-4947.

Sincerely,

Dutch Conrad
President and Program Manager
Mission Conversion Services Alliance, LLC

Attachments: 1. November 2025 Radionuclide Sampling Report
2. Rad Sampling Locations Map
3. Radiological Surveys

cc/atts: abigail.parish@pppo.gov, PPPO
adam.goldberg@duf6.pppo.gov, MCSA
angus.mackelvey@pppo.gov, PPPO
april.ladd@pppo.gov, PPPO
christopher.richards@pppo.gov, PPPO
craig.carlisle@duf6.pppo.gov, MCSA
erin.hughes@duf6.pppo.gov, MCSA
joe.johnson@duf6.pppo.gov, MCSA
joel.bradburne@pppo.gov, PPPO
john.ball@pppo.gov, ETAS
jud.lilly@pppo.gov, PPPO
keith.bradley@duf6.pppo.gov, MCSA
madison.thomas@pppo.gov, ETAS
osms.mailbox@pppo.gov, PPPO
peter.coutts@duf6.pppo.gov, MCSA
reinhard.knerr@pppo.gov, PPPO
robert.gentry@duf6.pppo.gov, MCSA
scott.nicholson@duf6.pppo.gov, MCSA
stephen.d'antoni@pppo.gov, PPPO
stephen.skeens@duf6.pppo.gov, MCSA
tammy.courtney@pad.pppo.gov, MCSA
tracey.duncan@pppo.gov, PPPO
MCSA Project File

**November 2025
Radionuclide Sampling
Piketon Facility**

Prepared for

Mission Conversion Services Alliance
3930 U.S. Route 23 South
X-1700 Warehouse
Piketon, OH 45661

Agreement No.
MLXS170088

December 2025



5H Technologies, Inc.

**1646 Kentucky Avenue
Paducah, Kentucky 42003**

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Acronyms

| | |
|------------------------|----------------------------------------------|
| 5H Tech | 5H Technologies, Inc. |
| CSY | Cylinder Storage Yard |
| DFF&O..... | Directors Final Findings and Orders |
| DOE..... | US Department of Energy |
| DUF ₆ | Depleted Uranium Hexafluoride |
| EPA | Environmental Protection Agency |
| ICP/MS..... | Inductively Coupled Plasma/Mass Spectrometry |
| LCS..... | laboratory control sample |
| LCSD..... | laboratory control sample duplicate |
| MCSA..... | Mission Conversion Services Alliance |
| pCi/L..... | picocuries per Liter |
| ppb..... | parts per billion |
| RAD | Radionuclide |
| µg/L..... | micrograms per Liter |

I. Overview

Mission Conversion Services Alliance (MCSA) has contracted with 5H Technologies, Inc. (5H Tech) for environmental sampling at the Piketon, Ohio Depleted Uranium Hexafluoride (DUF₆) site. The purpose of the following sampling event was to meet the requirements of the Cylinder Management Plan of the Ohio Environmental Protection Agency (EPA) Directors Final Findings and Orders (DFF&O) of March 28, 2011, pertaining to the U.S. Department of Energy (DOE) cylinder storage yards (CSYs). This is a report for the November 2025 sampling event for Radionuclides (RADs), in locations X-745C1, X-745C2, X-745C3, X-745C4, X-745E1, X-745G1A, and X-745G2. The samples analyzed for this event were taken from stormwater run-off.

II. Sampling Procedures

The November samples were collected from locations X-745C1, X-745C2, X-743C3, X-745C4, X-745E1, X-745G1A, and X-745G2 on November 10, 2025, between 0930 and 1030. One (1) sample was collected at each location, aqueous only. See the 2nd Quarter 2011 RAD sampling report for the radionuclide sampling, analysis, and reporting procedures.

III. Analysis

The analytical results for the November 2025 radionuclide sampling events are located in Appendix A. The samples were analyzed for gross Alpha, gross Beta, and Total Uranium. The gross Alpha and gross Beta procedures are the same as SW-846, Method 9310, with the exception of calibration methods. Total Uranium is an Inductively Coupled Plasma/Mass Spectrometry (ICP/MS) procedure capable of detecting down to one (1) ppb of Uranium (1.0 µg/L).

A. Lab Non-Conformances and Observations

Standard analytical protocols were followed in the analysis of the samples. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, the samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

The samples were received in good condition and properly preserved on December 1, 2025. The temperature of the cooler upon receipt by the lab was 14.0°C.

B. Results

The gross Alpha, gross Beta, and Total Uranium detection goals were met for all samples except gross Beta at X-745C2 and X-745C3 and Total Uranium at X-745G1A. According to the DFF&O requirements for RAD reporting, when the monthly RAD surface water sampling reveals that any single analyte result is greater than the standard deviation above the maximum amount for that location as of August 2013, a thorough inspection of the associated cylinder yard will be initiated and Ohio EPA will be notified within 24 hours. The following table denotes the maximum results for each location per analyte.

Table 1 - Maximum Values per Analyte per Sample Location as of August 2013

| Location | Alpha (pCi/L) | Beta (pCi/L) | Uranium (µg/L) |
|-----------------|--------------------------|-------------------------|---------------------------|
| X-745C1 | 19.60 | 30.50 | 8.40 |
| X-745C2 | 5.60 | 4.20 | 14.00 |
| X-745C3 | 5.08 | 5.64 | 3.50 |
| X-745C4 | 38.50 | 34.50 | 11.00 |
| X-745E1 | 4.60 | 10.20 | 1.90 |
| X-745G1A | 20.60 | 20.10 | 6.20 |
| X-745G2 | 10.30 | 8.30 | 4.70 |

See Appendix B for the table which summarizes when inspections and notifications are required based on each analyte at every sample location. The results for all locations and analytes for November 2025 were within the required limits except gross Beta at X-745C2 and X-745C3 and Total Uranium at X-745G1A. See Appendix C for all sample information and results. See Appendix D for graphs illustrating the results obtained at each sample location since January 2021.

Appendix A

Analytical Report

December 17, 2025

Mr. David Hutcheson
5H Technologies, Inc.
1646 Kentucky Avenue
Paducah, Kentucky 42003

Re: Water and Soil Analytical
Work Order: 754548

Dear Mr. Hutcheson:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on December 01, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4422.

Sincerely,

Jacob Crook
Project Manager

Purchase Order: GELP24-1611
Enclosures

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

FIVE001 5H Technologies, Inc

Client SDG: 754548 GEL Work Order: 754548

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Jacob Crook.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: December 17, 2025

Company : 5H Technologies, Inc.
Address : 1646 Kentucky Avenue

Paducah, Kentucky 42003

Contact: Mr. David Hutcheson
Project: Water and Soil Analytical

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | X-745C1 | Project: | FIVE00119 |
| Sample ID: | 754548001 | Client ID: | FIVE001 |
| Matrix: | Water | | |
| Collect Date: | 10-NOV-25 10:00 | | |
| Receive Date: | 01-DEC-25 | | |
| Collector: | Client | | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|----------------------------------------|-----------|--------|--------|-------|-------|------|----|---------|----------|------|---------|--------|
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B Liquid "As Received" | | | | | | | | | | | | |
| Uranium | | 3.39 | 0.0670 | 0.200 | ug/L | 1.00 | 1 | BAJ | 12/08/25 | 1305 | 2906299 | 1 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|-------------|-------------------|---------|----------|------|------------|
| SW846 3005A | ICP-MS 3005A PREP | HC1 | 12/02/25 | 0845 | 2906298 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------|------------------|
| 1 | SW846 3005A/6020B | |

Notes:

Column headers are defined as follows:

| | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Certificate of Analysis

Report Date: December 17, 2025

Company : 5H Technologies, Inc.
Address : 1646 Kentucky Avenue

Paducah, Kentucky 42003

Contact: Mr. David Hutcheson
Project: Water and Soil Analytical

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | X-745C2 | Project: | FIVE00119 |
| Sample ID: | 754548002 | Client ID: | FIVE001 |
| Matrix: | Water | | |
| Collect Date: | 10-NOV-25 09:50 | | |
| Receive Date: | 01-DEC-25 | | |
| Collector: | Client | | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|----------------------------------------|-----------|--------|--------|-------|-------|------|----|---------|----------|------|---------|--------|
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B Liquid "As Received" | | | | | | | | | | | | |
| Uranium | | 8.20 | 0.0670 | 0.200 | ug/L | 1.00 | 1 | BAJ | 12/08/25 | 1325 | 2906299 | 1 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|-------------|-------------------|---------|----------|------|------------|
| SW846 3005A | ICP-MS 3005A PREP | HC1 | 12/02/25 | 0845 | 2906298 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------|------------------|
| 1 | SW846 3005A/6020B | |

Notes:

Column headers are defined as follows:

| | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Report Date: December 17, 2025

Company : 5H Technologies, Inc.
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Paducah, Kentucky 42003

Contact: Mr. David Hutcheson
Project: Water and Soil Analytical

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | X-745C3 | Project: | FIVE00119 |
| Sample ID: | 754548003 | Client ID: | FIVE001 |
| Matrix: | Water | | |
| Collect Date: | 10-NOV-25 09:40 | | |
| Receive Date: | 01-DEC-25 | | |
| Collector: | Client | | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|----------------------------------------|-----------|--------|--------|-------|-------|------|----|---------|----------|------|---------|--------|
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B Liquid "As Received" | | | | | | | | | | | | |
| Uranium | | 2.10 | 0.0670 | 0.200 | ug/L | 1.00 | 1 | BAJ | 12/08/25 | 1328 | 2906299 | 1 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|-------------|-------------------|---------|----------|------|------------|
| SW846 3005A | ICP-MS 3005A PREP | HC1 | 12/02/25 | 0845 | 2906298 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------|------------------|
| 1 | SW846 3005A/6020B | |

Notes:

Column headers are defined as follows:

| | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: December 17, 2025

Company : 5H Technologies, Inc.
Address : 1646 Kentucky Avenue

Paducah, Kentucky 42003

Contact: Mr. David Hutcheson
Project: Water and Soil Analytical

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | X-745C4 | Project: | FIVE00119 |
| Sample ID: | 754548004 | Client ID: | FIVE001 |
| Matrix: | Water | | |
| Collect Date: | 10-NOV-25 10:10 | | |
| Receive Date: | 01-DEC-25 | | |
| Collector: | Client | | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|----------------------------------------|-----------|--------|--------|-------|-------|------|----|---------|----------|------|---------|--------|
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B Liquid "As Received" | | | | | | | | | | | | |
| Uranium | | 6.59 | 0.0670 | 0.200 | ug/L | 1.00 | 1 | BAJ | 12/08/25 | 1331 | 2906299 | 1 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|-------------|-------------------|---------|----------|------|------------|
| SW846 3005A | ICP-MS 3005A PREP | HC1 | 12/02/25 | 0845 | 2906298 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------|------------------|
| 1 | SW846 3005A/6020B | |

Notes:

Column headers are defined as follows:

| | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Certificate of Analysis

Report Date: December 17, 2025

Company : 5H Technologies, Inc.
Address : 1646 Kentucky Avenue

Paducah, Kentucky 42003

Contact: Mr. David Hutcheson
Project: Water and Soil Analytical

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | X-745G1A | Project: | FIVE00119 |
| Sample ID: | 754548006 | Client ID: | FIVE001 |
| Matrix: | Water | | |
| Collect Date: | 10-NOV-25 10:20 | | |
| Receive Date: | 01-DEC-25 | | |
| Collector: | Client | | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|----------------------------------------|-----------|--------|--------|-------|-------|------|----|---------|----------|------|---------|--------|
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B Liquid "As Received" | | | | | | | | | | | | |
| Uranium | | 8.47 | 0.0670 | 0.200 | ug/L | 1.00 | 1 | BAJ | 12/08/25 | 1337 | 2906299 | 1 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|-------------|-------------------|---------|----------|------|------------|
| SW846 3005A | ICP-MS 3005A PREP | HC1 | 12/02/25 | 0845 | 2906298 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------|------------------|
| 1 | SW846 3005A/6020B | |

Notes:

Column headers are defined as follows:

| | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Certificate of Analysis

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Address : 1646 Kentucky Avenue
Paducah, Kentucky 42003
Contact: Mr. David Hutcheson
Project: Water and Soil Analytical

Report Date: December 17, 2025

Client Sample ID: X-745C1
Sample ID: 754548001
Matrix: Water
Collect Date: 10-NOV-25
Receive Date: 01-DEC-25
Collector: Client

Project: FIVE00119
Client ID: FIVE001

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|------------------------------------------------------------------------------------------|-----------|--------|-------------|------|---------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting <i>GFPC Gross A/B, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Alpha | | 3.31 | +/-2.23 | 2.81 | +/-2.30 | 5.00 | pCi/L | | | CH7 | 12/05/25 | 1740 | 2907506 | 1 |
| Beta | | 5.26 | +/-2.97 | 4.44 | +/-3.09 | 5.00 | pCi/L | | | | | | | |

The following Analytical Methods were performed

| Method | Description |
|--------|----------------------|
| 1 | EPA 900.0/SW846 9310 |

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|------|----------|-----------|-------------------|
|---------------------------|------|----------|-----------|-------------------|

Notes:
The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration

Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Company : 5H Technologies, Inc.
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Paducah, Kentucky 42003

Report Date: December 17, 2025

Contact: Mr. David Hutcheson
Project: Water and Soil Analytical

Client Sample ID: X-745C2
Sample ID: 754548002
Matrix: Water
Collect Date: 10-NOV-25
Receive Date: 01-DEC-25
Collector: Client

Project: FIVE00119
Client ID: FIVE001

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|---------------------------------------------|-----------|--------|-------------|------|---------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Gross A/B, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Alpha | | 7.19 | +/-2.96 | 2.91 | +/-3.18 | 5.00 | pCi/L | | | CH7 | 12/05/25 | 1740 | 2907506 | 1 |
| Beta | | 6.55 | +/-2.61 | 3.42 | +/-2.82 | 5.00 | pCi/L | | | | | | | |

The following Analytical Methods were performed

| Method | Description |
|--------|----------------------|
| 1 | EPA 900.0/SW846 9310 |

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|------|----------|-----------|-------------------|
| | | | | |

Notes:
The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Certificate of Analysis

Company : 5H Technologies, Inc.
Address : 1646 Kentucky Avenue
Paducah, Kentucky 42003
Contact: Mr. David Hutcheson
Project: Water and Soil Analytical

Report Date: December 17, 2025

Client Sample ID: X-745C3
Sample ID: 754548003
Matrix: Water
Collect Date: 10-NOV-25
Receive Date: 01-DEC-25
Collector: Client

Project: FIVE00119
Client ID: FIVE001

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|---------------------------------------------|-----------|--------|-------------|------|---------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Gross A/B, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Alpha | U | 1.00 | +/-1.72 | 3.12 | +/-1.73 | 5.00 | pCi/L | | | CH7 | 12/05/25 | 1740 | 2907506 | 1 |
| Beta | | 8.60 | +/-3.46 | 4.83 | +/-3.74 | 5.00 | pCi/L | | | | | | | |

The following Analytical Methods were performed

| Method | Description |
|--------|----------------------|
| 1 | EPA 900.0/SW846 9310 |

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|------|----------|-----------|-------------------|
|---------------------------|------|----------|-----------|-------------------|

Notes:
The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration

Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC

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Certificate of Analysis

Company : 5H Technologies, Inc.
Address : 1646 Kentucky Avenue

Paducah, Kentucky 42003

Report Date: December 17, 2025

Contact: Mr. David Hutcheson
Project: Water and Soil Analytical

Client Sample ID: X-745C4
Sample ID: 754548004
Matrix: Water
Collect Date: 10-NOV-25
Receive Date: 01-DEC-25
Collector: Client

Project: FIVE00119
Client ID: FIVE001

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|---------------------------------------------|-----------|--------|-------------|------|---------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Gross A/B, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Alpha | | 5.34 | +/-2.60 | 2.38 | +/-2.74 | 5.00 | pCi/L | | | CH7 | 12/05/25 | 1740 | 2907506 | 1 |
| Beta | | 7.28 | +/-2.98 | 3.96 | +/-3.21 | 5.00 | pCi/L | | | | | | | |

The following Analytical Methods were performed

| Method | Description |
|--------|----------------------|
| 1 | EPA 900.0/SW846 9310 |

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|------|----------|-----------|-------------------|
| | | | | |

Notes:
The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : 5H Technologies, Inc.
Address : 1646 Kentucky Avenue

Paducah, Kentucky 42003

Contact: Mr. David Hutcheson

Project: Water and Soil Analytical

Report Date: December 17, 2025

Client Sample ID: X-745E1
Sample ID: 754548005
Matrix: Water
Collect Date: 10-NOV-25
Receive Date: 01-DEC-25
Collector: Client

Project: FIVE00119
Client ID: FIVE001

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|---------------------------------------------|-----------|--------|-------------|------|---------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Gross A/B, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Alpha | | 3.03 | +/-2.04 | 2.45 | +/-2.10 | 5.00 | pCi/L | | | CH7 | 12/05/25 | 1740 | 2907506 | 1 |
| Beta | | 8.56 | +/-3.02 | 3.79 | +/-3.33 | 5.00 | pCi/L | | | | | | | |

The following Analytical Methods were performed

| Method | Description |
|--------|----------------------|
| 1 | EPA 900.0/SW846 9310 |

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|------|----------|-----------|-------------------|
|---------------------------|------|----------|-----------|-------------------|

Notes:
The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration

Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : 5H Technologies, Inc.
Address : 1646 Kentucky Avenue

Paducah, Kentucky 42003

Contact: Mr. David Hutcheson

Project: Water and Soil Analytical

Client Sample ID: X-745G1A

Sample ID: 754548006

Matrix: Water

Collect Date: 10-NOV-25

Receive Date: 01-DEC-25

Collector: Client

Report Date: December 17, 2025

Project: FIVE00119

Client ID: FIVE001

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|---------------------------------------------|-----------|--------|-------------|------|---------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Gross A/B, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Alpha | | 9.24 | +/-3.65 | 3.40 | +/-3.95 | 5.00 | pCi/L | | | CH7 | 12/05/25 | 1740 | 2907506 | 1 |
| Beta | | 12.9 | +/-3.64 | 4.21 | +/-4.21 | 5.00 | pCi/L | | | | | | | |

The following Analytical Methods were performed

| Method | Description |
|--------|----------------------|
| 1 | EPA 900.0/SW846 9310 |

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|------|----------|-----------|-------------------|
|---------------------------|------|----------|-----------|-------------------|

Notes:
The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration

Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : 5H Technologies, Inc.
Address : 1646 Kentucky Avenue
Paducah, Kentucky 42003
Contact: Mr. David Hutcheson
Project: Water and Soil Analytical

Report Date: December 17, 2025

Client Sample ID: X-745G2
Sample ID: 754548007
Matrix: Water
Collect Date: 10-NOV-25
Receive Date: 01-DEC-25
Collector: Client

Project: FIVE00119
Client ID: FIVE001

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|---------------------------------------------|-----------|--------|-------------|------|---------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Gross A/B, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Alpha | U | 2.04 | +/-1.82 | 2.61 | +/-1.85 | 5.00 | pCi/L | | | CH7 | 12/05/25 | 1740 | 2907506 | 1 |
| Beta | | 8.48 | +/-3.11 | 4.06 | +/-3.40 | 5.00 | pCi/L | | | | | | | |

The following Analytical Methods were performed

| Method | Description |
|--------|----------------------|
| 1 | EPA 900.0/SW846 9310 |

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|------|----------|-----------|-------------------|
|---------------------------|------|----------|-----------|-------------------|

Notes:
The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration

Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC

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QC Summary

Report Date: December 17, 2025

Page 1 of 1

5H Technologies, Inc.
1646 Kentucky Avenue
Paducah, Kentucky
Contact: Mr. David Hutcheson

Workorder: 754548

| Parmname | NOM | Sample | Qual | QC | Units | RPD/D% | REC% | Range | Anlst | Date | Time |
|--------------------------------|-----------|--------|------|-------|-------|--------|------|------------|-------|----------|-------|
| Metals Analysis - ICPMS | | | | | | | | | | | |
| Batch | 2906299 | | | | | | | | | | |
| QC1206316389 | 754548001 | DUP | | | | | | | | | |
| Uranium | | 3.39 | | 3.49 | ug/L | 2.79 | | (0%-20%) | BAJ | 12/08/25 | 13:08 |
| QC1206316388 | LCS | | | | | | | | | | |
| Uranium | 50.0 | | | 53.0 | ug/L | | 106 | (80%-120%) | | 12/08/25 | 13:02 |
| QC1206316387 | MB | | | | | | | | | | |
| Uranium | | | U | ND | ug/L | | | | | 12/08/25 | 12:59 |
| QC1206316390 | 754548001 | MS | | | | | | | | | |
| Uranium | 50.0 | 3.39 | | 56.8 | ug/L | | 107 | (75%-125%) | | 12/08/25 | 13:11 |
| QC1206316392 | 754548001 | SDILT | | | | | | | | | |
| Uranium | | 3.39 | | 0.702 | ug/L | 3.54 | | (0%-20%) | | 12/08/25 | 13:17 |

Notes:

The Qualifiers in this report are defined as follows:

U U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: December 17, 2025
Page 1 of 2

Client : **5H Technologies, Inc.**
1646 Kentucky Avenue

Paducah, Kentucky
Contact: **Mr. David Hutcheson**
Workorder: **754548**

| Parmname | NOM | Sample Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---------------------|---------------|-------------|----|---------|-------|------|----------------|-------|---------------|
| Rad Gas Flow | | | | | | | | | |
| Batch | 2907506 | | | | | | | | |
| QC1206318445 | 754548001 DUP | | | | | | | | |
| Alpha | | 3.31 | U | 3.40 | pCi/L | 5.85 | (0% - 100%) | CH7 | 12/05/2517:40 |
| | Uncert: | +/-2.23 | | +/-2.51 | | | | | |
| | TPU: | +/-2.30 | | +/-2.57 | | | | | |
| Beta | | 5.26 | | 8.59 | pCi/L | 48.1 | (0% - 100%) | | |
| | Uncert: | +/-2.97 | | +/-3.10 | | | | | |
| | TPU: | +/-3.09 | | +/-3.40 | | | | | |
| QC1206318448 | LCS | | | | | | | | |
| Alpha | 107 | | | 128 | pCi/L | | 119 (75%-125%) | CH7 | 12/05/2517:40 |
| | Uncert: | | | +/-10.7 | | | | | |
| | TPU: | | | +/-23.5 | | | | | |
| Beta | 365 | | | 427 | pCi/L | | 117 (75%-125%) | | |
| | Uncert: | | | +/-15.2 | | | | | |
| | TPU: | | | +/-70.7 | | | | | |
| QC1206318444 | MB | | | | | | | | |
| Alpha | | | U | 0.764 | pCi/L | | | CH7 | 12/05/2517:40 |
| | Uncert: | | | +/-1.43 | | | | | |
| | TPU: | | | +/-1.44 | | | | | |
| Beta | | | U | 1.13 | pCi/L | | | | |
| | Uncert: | | | +/-2.00 | | | | | |
| | TPU: | | | +/-2.01 | | | | | |
| QC1206318446 | 754548001 MS | | | | | | | | |
| Alpha | 408 | 3.31 | | 480 | pCi/L | | 117 (75%-125%) | CH7 | 12/05/2517:40 |
| | Uncert: | +/-2.23 | | +/-41.4 | | | | | |
| | TPU: | +/-2.30 | | +/-88.7 | | | | | |
| Beta | 1390 | 5.26 | | 1650 | pCi/L | | 118 (75%-125%) | | |
| | Uncert: | +/-2.97 | | +/-58.8 | | | | | |
| | TPU: | +/-3.09 | | +/-273 | | | | | |
| QC1206318447 | 754548001 MSD | | | | | | | | |
| Alpha | 454 | 3.31 | | 533 | pCi/L | 10.4 | 117 (0%-20%) | CH7 | 12/05/2517:40 |
| | Uncert: | +/-2.23 | | +/-45.5 | | | | | |
| | TPU: | +/-2.30 | | +/-98.3 | | | | | |
| Beta | 1550 | 5.26 | | 1870 | pCi/L | 12.5 | 120 (0%-20%) | | |
| | Uncert: | +/-2.97 | | +/-65.7 | | | | | |
| | TPU: | +/-3.09 | | +/-311 | | | | | |

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 754548

Page 2 of 2

| Parmname | NOM | Sample Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|----------|-----|-------------|----|-------|------|------|-------|-------|------|------|
|----------|-----|-------------|----|-------|------|------|-------|-------|------|------|

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

** Indicates analyte is a surrogate/tracer compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: **FIVE** SDG/AR/COC/Work Order: **754548** GEL PM:

Received By: **Stacy Boone** Date Received at GEL: **12.01.25**

Carrier (Circle Applicable) FedEx Express FedEx Ground UPS Field Services Courier Client Other: IR Temp gun # **IR4-24** Daily Calibration Performed? Y/N

| Tracking Number | Temp (C) | If over 6 °C, check if samples do not require cold preservation (ie radiochem only). | Tracking Number | Temp (C) | If over 6 °C, check if samples do not require cold preservation (ie radiochem only). |
|--------------------------------|-----------|--------------------------------------------------------------------------------------|-----------------|----------|--------------------------------------------------------------------------------------|
| 1Z 146 Y7Y 03 9873 5190 | 14 | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Suspected Hazard Information | Yes | No | *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation. |
|------------------------------------------------------------------------|-----|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| A) Shipped as a DOT Hazardous? | | <input checked="" type="checkbox"/> | Hazard Class Shipped: UN#: IFUN2910 , Is the Radioactive Shipment Survey Compliant? Yes ___ No ___ |
| B) Did the client designate the samples to be received as radioactive? | | <input checked="" type="checkbox"/> | COC notation on radioactively labeled containers equal client designation |
| C) Did the RSO classify the samples as radioactive? | | <input checked="" type="checkbox"/> | Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3 |
| D) Are there any sample hazards to document? | | <input checked="" type="checkbox"/> | If yes, select Hazards below: PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other: |
| E) Was a SDS received and reviewed by Lab Safety? | | <input checked="" type="checkbox"/> | Circle Applicable: See additional Comments below. No additional comments needed after review. |

| Sample Receipt Criteria | Yes | NA | No | Comments/Qualifiers (Required for Non-Conforming Items) |
|----------------------------------------------------------------------------------------------|-------------------------------------|----|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 Shipping containers received intact and sealed? | <input checked="" type="checkbox"/> | | | Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe) |
| 2 Chain of custody documents included with shipment? | <input checked="" type="checkbox"/> | | | Circle Applicable: Client contacted and provided COC COC created upon receipt |
| 3 If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)? | | | <input checked="" type="checkbox"/> | Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celsius |
| 4 Sample containers intact and sealed? | <input checked="" type="checkbox"/> | | | Circle Applicable: Seals broken Damaged container Leaking container Other (describe) |
| 5 Samples requiring chemical preservation at proper pH? | <input checked="" type="checkbox"/> | | | Preserved per COC request or list Sample IDs and Containers Affected: |
| 6 Do any samples require Volatile Analysis? (If yes, answer all three additional questions.) | | | <input checked="" type="checkbox"/> | If Preservation added, Lot#: If Yes, are Encores or Soil Kits present? Yes ___ No ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample IDs and containers affected: |
| 7 Samples received within holding time? | <input checked="" type="checkbox"/> | | | IDs and tests affected: |
| 8 Sample IDs on COC match IDs on bottles? | <input checked="" type="checkbox"/> | | | IDs and containers affected: |
| 9 Date & time on COC match date & time on bottles? | <input checked="" type="checkbox"/> | | | Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) |
| 10 Number of containers received match number indicated on COC? | <input checked="" type="checkbox"/> | | | Circle Applicable: No container count on COC Missing Container (provide details) Other (describe) |
| 11 Are sample containers identifiable as GEL provided by use of GEL labels? | <input checked="" type="checkbox"/> | | | |
| 12 COC form is properly signed in relinquished/received sections? | <input checked="" type="checkbox"/> | | | Circle Applicable: Not relinquished Other (describe) |

Comments:

PM (or PMA) review: Initials **gs** Date **12/2/25**

List of current GEL Certifications as of 17 December 2025

| State | Certification |
|-----------------------------|----------------------|
| Alabama | 42200 |
| Alaska | 17-018 |
| Alaska Drinking Water | SC00012 |
| Arkansas | 88-00651 |
| CLIA | 42D0904046 |
| California | 2940 |
| Colorado | SC00012 |
| Connecticut | PH-0169 |
| DoD ELAP/ ISO17025 A2LA | 2567.01 |
| Florida NELAP | E87156 |
| Foreign Soils Permit | 525-24-281-19660 |
| Georgia | SC00012 |
| Georgia SDWA | 967 |
| Hawaii | SC00012 |
| Idaho | SC00012 |
| Illinois NELAP | 200029 |
| Indiana | C-SC-01 |
| Kansas NELAP | E-10332 |
| Kentucky SDWA | KY90129 |
| Kentucky Wastewater | KY90129 |
| Louisiana Drinking Water | LA024 |
| Louisiana NELAP | 03046 (A133904) |
| Maine | 2023019 |
| Maryland | 270 |
| Massachusetts | M-SC012 |
| Massachusetts PFAS Approval | Letter |
| Michigan | 9976 |
| Mississippi | SC00012 |
| Nebraska | NE-OS-26-13 |
| Nevada | NV-C24-00175 |
| New Hampshire NELAP | 205424 |
| New Jersey NELAP | SC002 |
| New Mexico | SC00012 |
| New York NELAP | 11501 |
| North Carolina | 233 |
| North Carolina SDWA | 45709 |
| North Dakota | R-158 |
| Oklahoma | 2023-152 |
| Pennsylvania NELAP | 68-00485 |
| Puerto Rico | SC00012 |
| S. Carolina Radiochem | 10120002 |
| Sanitation Districts of LA | 9255651 |
| South Carolina Chemistry | 10120001 |
| Tennessee | TN 02934 |
| Texas NELAP | T104704235 |
| Utah NELAP | SC000122024-45 |
| Vermont | VT87156 |
| Virginia NELAP | 460202 |
| Washington | C780 |

**Technical Case Narrative
5H Technologies, Inc
SDG #: 754548**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 37

Analytical Batch: 2906299

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 15

Preparation Batch: 2906298

The following samples were analyzed using the above methods and analytical procedure(s).

| <u>GEL Sample ID#</u> | <u>Client Sample Identification</u> |
|------------------------------|--------------------------------------------|
| 754548001 | X-745C1 |
| 754548002 | X-745C2 |
| 754548003 | X-745C3 |
| 754548004 | X-745C4 |
| 754548005 | X-745E1 |
| 754548006 | X-745G1A |
| 754548007 | X-745G2 |
| 1206316387 | Method Blank (MB)ICP-MS |
| 1206316388 | Laboratory Control Sample (LCS) |
| 1206316392 | 754548001(X-745C1L) Serial Dilution (SD) |
| 1206316389 | 754548001(X-745C1D) Sample Duplicate (DUP) |
| 1206316390 | 754548001(X-745C1S) Matrix Spike (MS) |

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Radiochemistry

Product: GFPC Gross A/B, Liquid

Analytical Method: EPA 900.0/SW846 9310

Analytical Procedure: GL-RAD-A-001 REV# 20

Analytical Batch: 2907506

The following samples were analyzed using the above methods and analytical procedure(s).

| <u>GEL Sample ID#</u> | <u>Client Sample Identification</u> |
|------------------------------|-------------------------------------------------|
| 754548001 | X-745C1 |
| 754548002 | X-745C2 |
| 754548003 | X-745C3 |
| 754548004 | X-745C4 |
| 754548005 | X-745E1 |
| 754548006 | X-745G1A |
| 754548007 | X-745G2 |
| 1206318444 | Method Blank (MB) |
| 1206318445 | 754548001(X-745C1) Sample Duplicate (DUP) |
| 1206318446 | 754548001(X-745C1) Matrix Spike (MS) |
| 1206318447 | 754548001(X-745C1) Matrix Spike Duplicate (MSD) |
| 1206318448 | Laboratory Control Sample (LCS) |

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Gross Alpha/Beta Preparation Information

High hygroscopic salt content in evaporated samples can cause the sample mass to fluctuate due to moisture absorption. To minimize this interference, the salts are converted to oxides by heating the sample under a flame until a dull red color is obtained. The conversion to oxides stabilizes the sample weight and ensures that proper alpha/beta efficiencies are assigned for each sample. Volatile radioisotopes of carbon, hydrogen, technetium, polonium and cesium may be lost during sample heating.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Appendix B

Reporting Table

Portsmouth November 2025 RAD Report Requirement

Sample Date: November 10, 2025

| Alpha (pCi/L) | | | | |
|-----------------|----------------------|--------------------|----------------|---------|
| Sample Location | Max (as of Aug 2013) | Standard Deviation | Current Result | Report? |
| X-745C1 | 19.60 | 3.53 | 3.31 | No |
| X-745C2 | 5.60 | 1.95 | 7.19 | No |
| X-745C3 | 5.08 | 0.99 | 1.00 | No |
| X-745C4 | 38.50 | 7.02 | 5.34 | No |
| X-745E1 | 4.60 | 1.12 | 3.03 | No |
| X-745G1A | 20.60 | 2.78 | 9.24 | No |
| X-745G2 | 10.30 | 1.50 | 2.04 | No |

| Beta (pCi/L) | | | | |
|-----------------|----------------------|--------------------|----------------|---------|
| Sample Location | Max (as of Aug 2013) | Standard Deviation | Current Result | Report? |
| X-745C1 | 30.50 | 4.31 | 5.26 | No |
| X-745C2 | 4.20 | 1.63 | 6.55 | Yes |
| X-745C3 | 5.64 | 0.99 | 8.60 | Yes |
| X-745C4 | 34.50 | 6.10 | 7.28 | No |
| X-745E1 | 10.20 | 1.95 | 8.56 | No |
| X-745G1A | 20.10 | 3.27 | 12.9 | No |
| X-745G2 | 8.30 | 1.70 | 8.48 | No |

| Uranium (µg/L) | | | | |
|-----------------|----------------------|--------------------|----------------|---------|
| Sample Location | Max (as of Aug 2013) | Standard Deviation | Current Result | Report? |
| X-745C1 | 8.40 | 4.00 | 3.39 | No |
| X-745C2 | 14.00 | 3.50 | 8.20 | No |
| X-745C3 | 3.50 | 1.40 | 2.10 | No |
| X-745C4 | 11.00 | 3.20 | 6.59 | No |
| X-745E1 | 1.90 | 0.60 | 0.703 | No |
| X-745G1A | 6.20 | 1.10 | 8.47 | Yes |
| X-745G2 | 4.70 | 1.00 | 3.39 | No |

Appendix C

Sample Table

November 2025 RAD

| Sample Location | Lab ID | Date Sampled | Time Sampled | Contaminant | Results | Total Uncertainty | Detection Limit |
|-----------------|-----------|--------------|--------------|---------------|--------------|-------------------|-----------------|
| X-745C1 | 754548001 | 11/10/2025 | 10:00 | Total Alpha | 3.31 pCi/L | 2.23 pCi/L | 2.81 pCi/L |
| | | | | Total Beta | 5.26 pCi/L | 2.97 pCi/L | 4.44 pCi/L |
| | | | | Total Uranium | 3.39 µg/L | | 0.0670 µg/L |
| X-745C2 | 754548002 | 11/10/2025 | 9:50 | Total Alpha | 7.19 pCi/L | 2.96 pCi/L | 2.91 pCi/L |
| | | | | Total Beta | 6.55 pCi/L | 2.61 pCi/L | 3.42 pCi/L |
| | | | | Total Uranium | 8.20 µg/L | | 0.0670 µg/L |
| X-745C3 | 754548003 | 11/10/2025 | 9:40 | Total Alpha | 1.00 pCi/L U | 1.72 pCi/L | 3.12 pCi/L |
| | | | | Total Beta | 8.60 pCi/L | 3.46 pCi/L | 4.83 pCi/L |
| | | | | Total Uranium | 2.10 µg/L | | 0.0670 µg/L |
| X-745C4 | 754548004 | 11/10/2025 | 10:10 | Total Alpha | 5.34 pCi/L | 2.60 pCi/L | 2.38 pCi/L |
| | | | | Total Beta | 7.28 pCi/L | 2.98 pCi/L | 3.96 pCi/L |
| | | | | Total Uranium | 6.59 µg/L | | 0.0670 µg/L |
| X-745E1 | 754548005 | 11/10/2025 | 9:30 | Total Alpha | 3.03 pCi/L | 2.04 pCi/L | 2.45 pCi/L |
| | | | | Total Beta | 8.56 pCi/L | 3.02 pCi/L | 3.79 pCi/L |
| | | | | Total Uranium | 0.703 µg/L | | 0.0670 µg/L |
| X-745G1A | 754548006 | 11/10/2025 | 10:20 | Total Alpha | 9.24 pCi/L | 3.65 pCi/L | 3.40 pCi/L |
| | | | | Total Beta | 12.9 pCi/L | 3.64 pCi/L | 4.21 pCi/L |
| | | | | Total Uranium | 8.47 µg/L | | 0.0670 µg/L |
| X-745G2 | 754548007 | 11/10/2025 | 10:30 | Total Alpha | 2.04 pCi/L U | 1.82 pCi/L | 2.61 pCi/L |
| | | | | Total Beta | 8.48 pCi/L | 3.11 pCi/L | 4.06 pCi/L |
| | | | | Total Uranium | 3.39 µg/L | | 0.0670 µg/L |

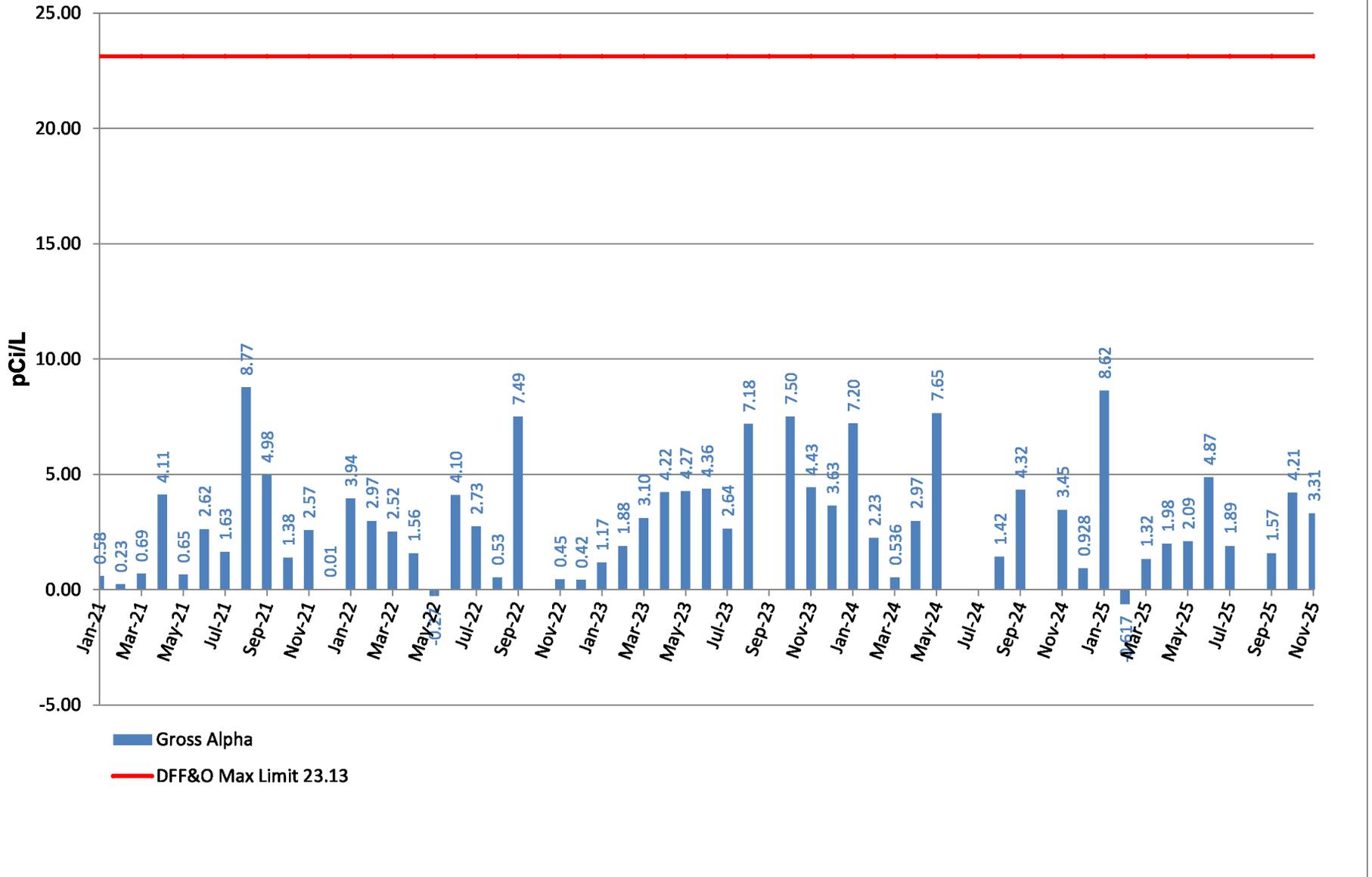
U = Indicates the analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J = Indicates value is estimated.

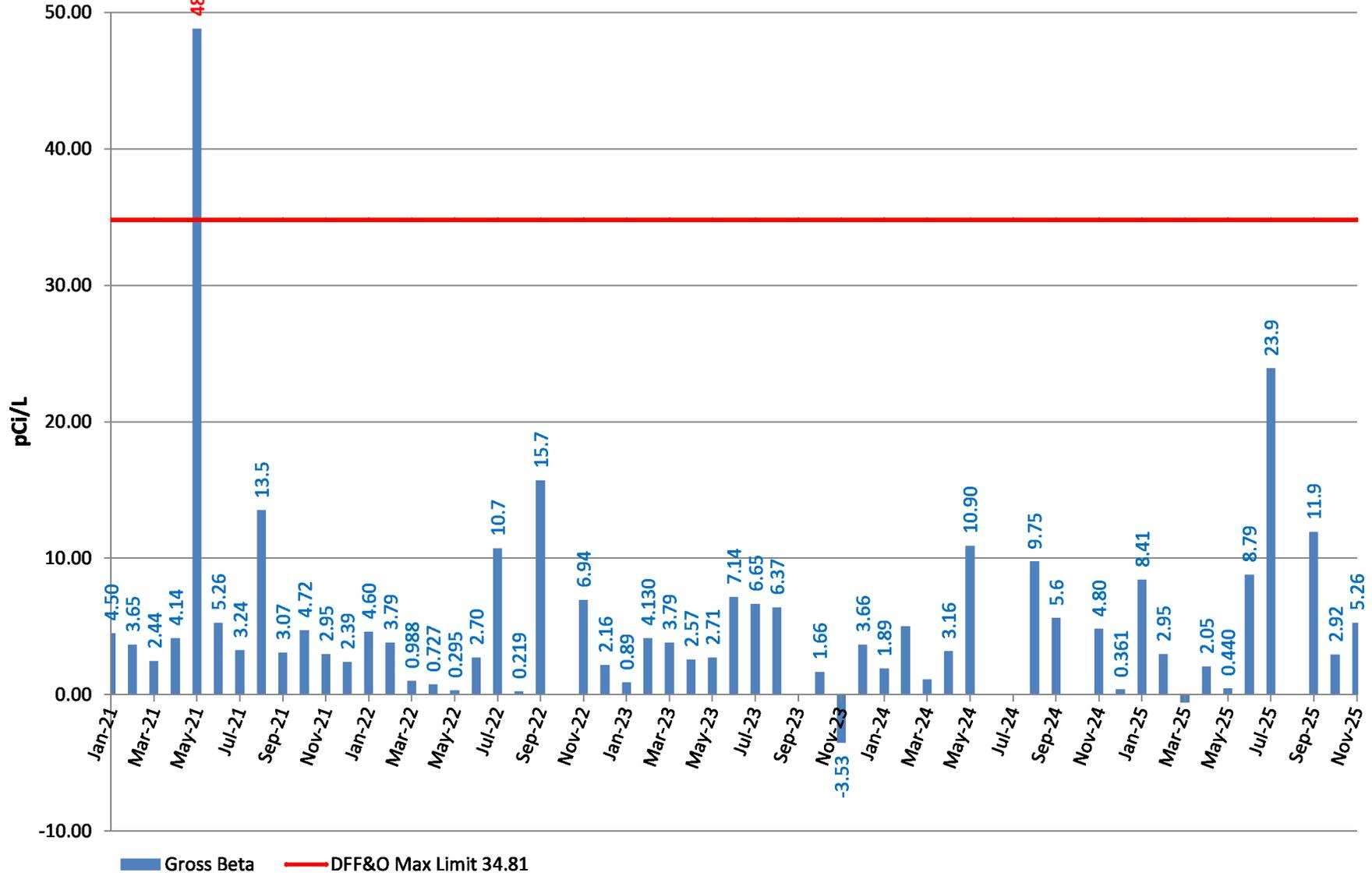
Appendix D

Sample Location Graphs

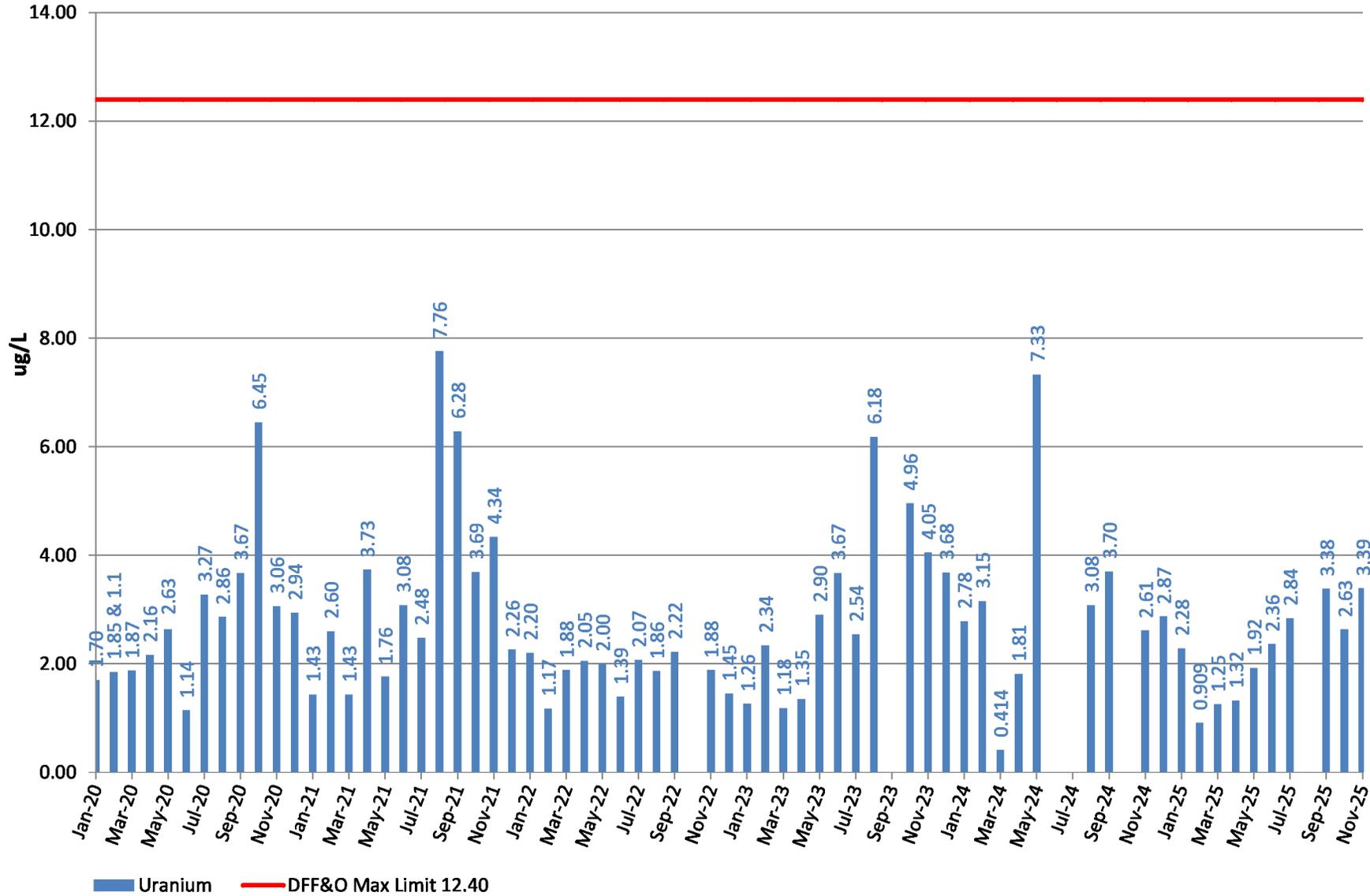
X-745C1 Gross Alpha



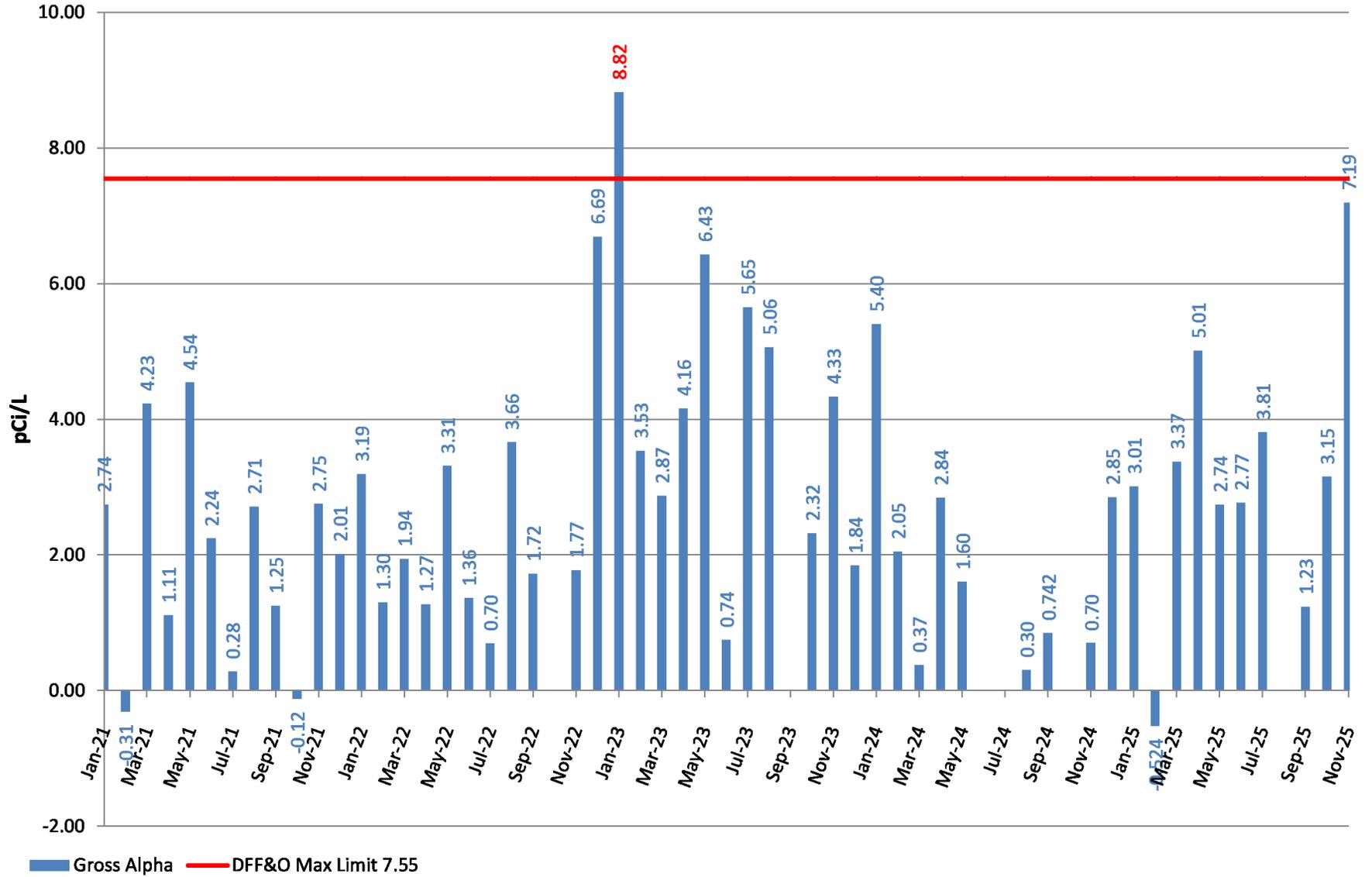
X-745C1 Gross Beta



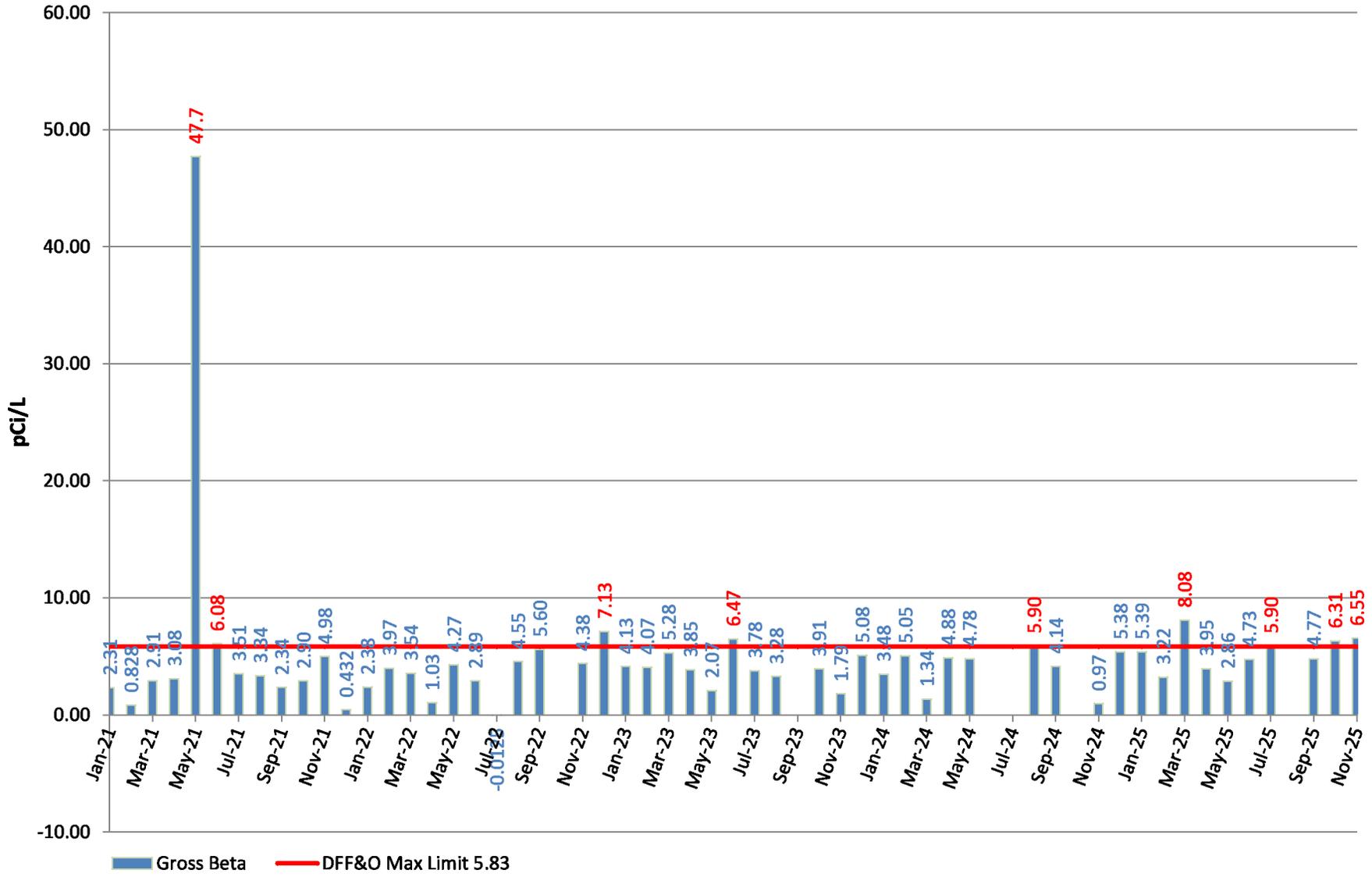
X-745C1 Uranium



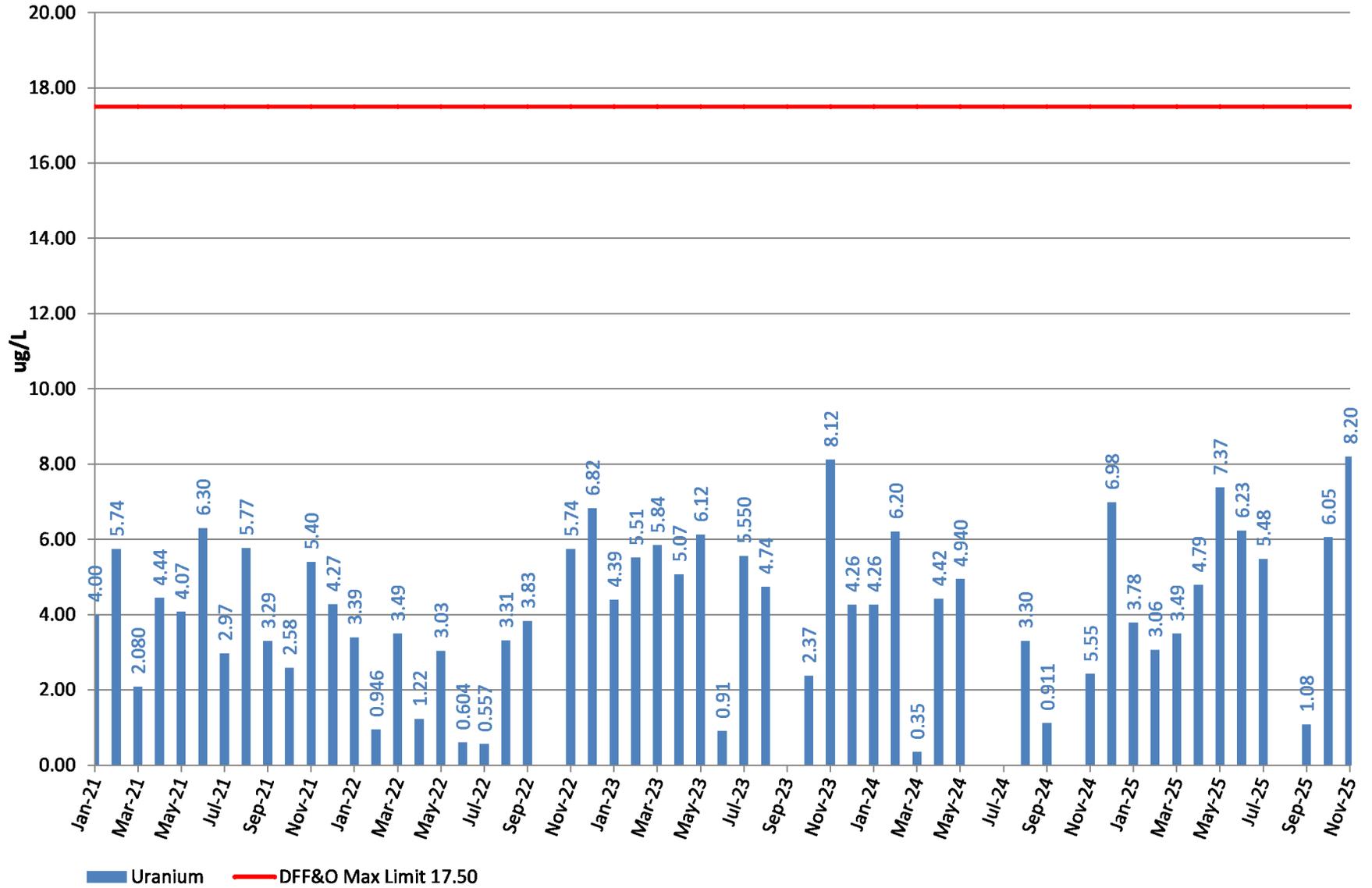
X-745C2 Gross Alpha



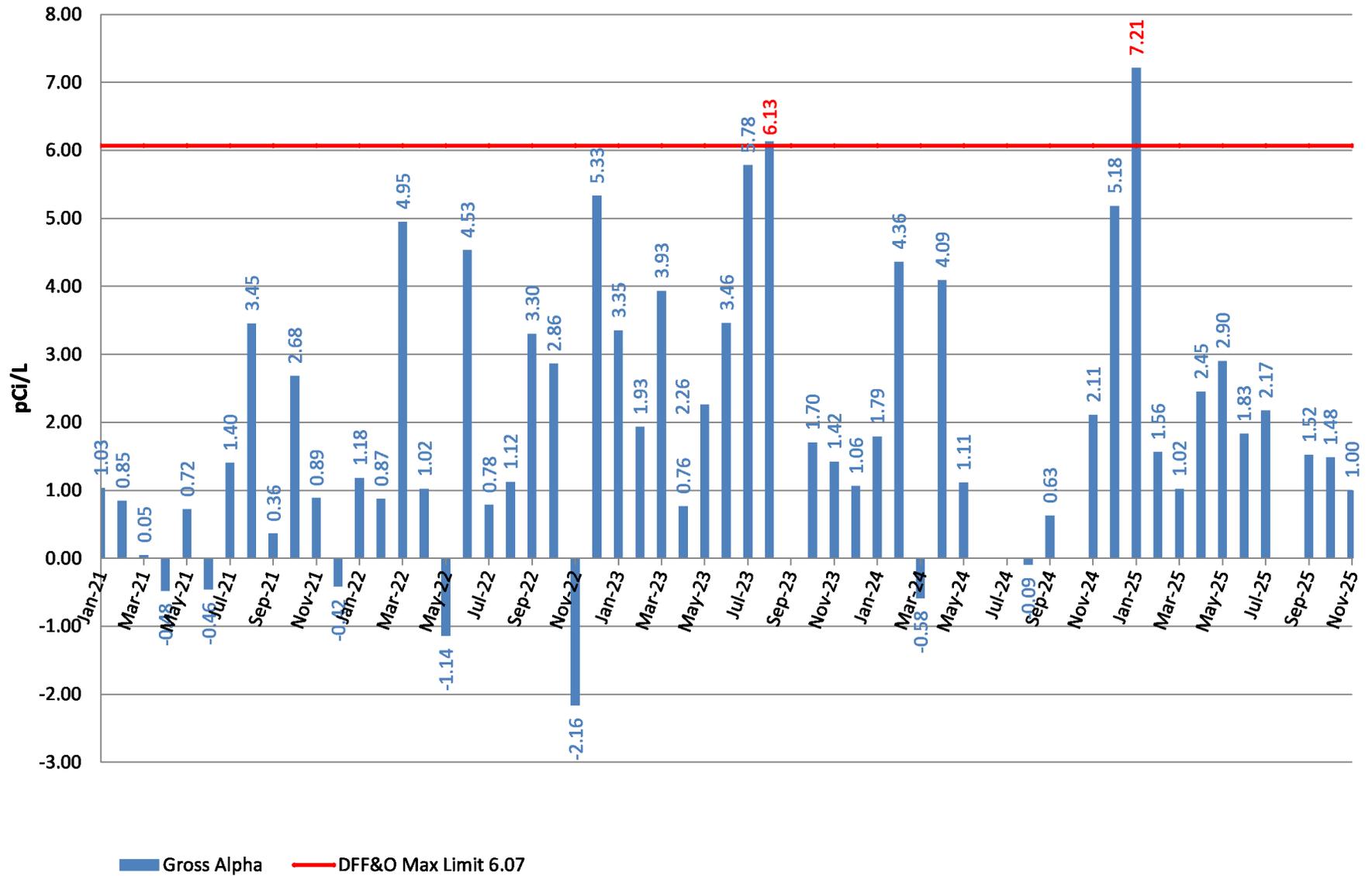
X-745C2 Gross Beta



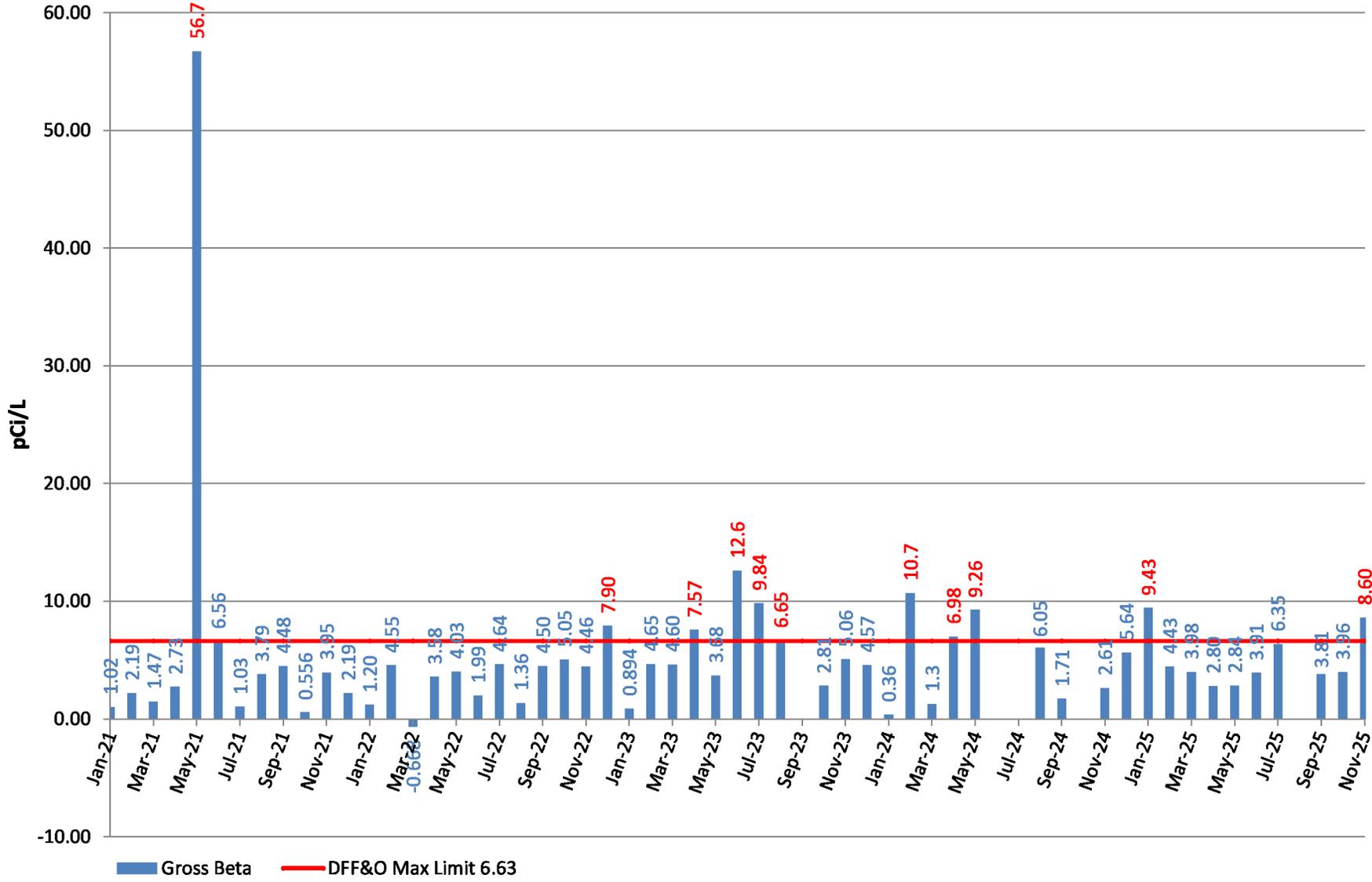
X-745C2 Uranium



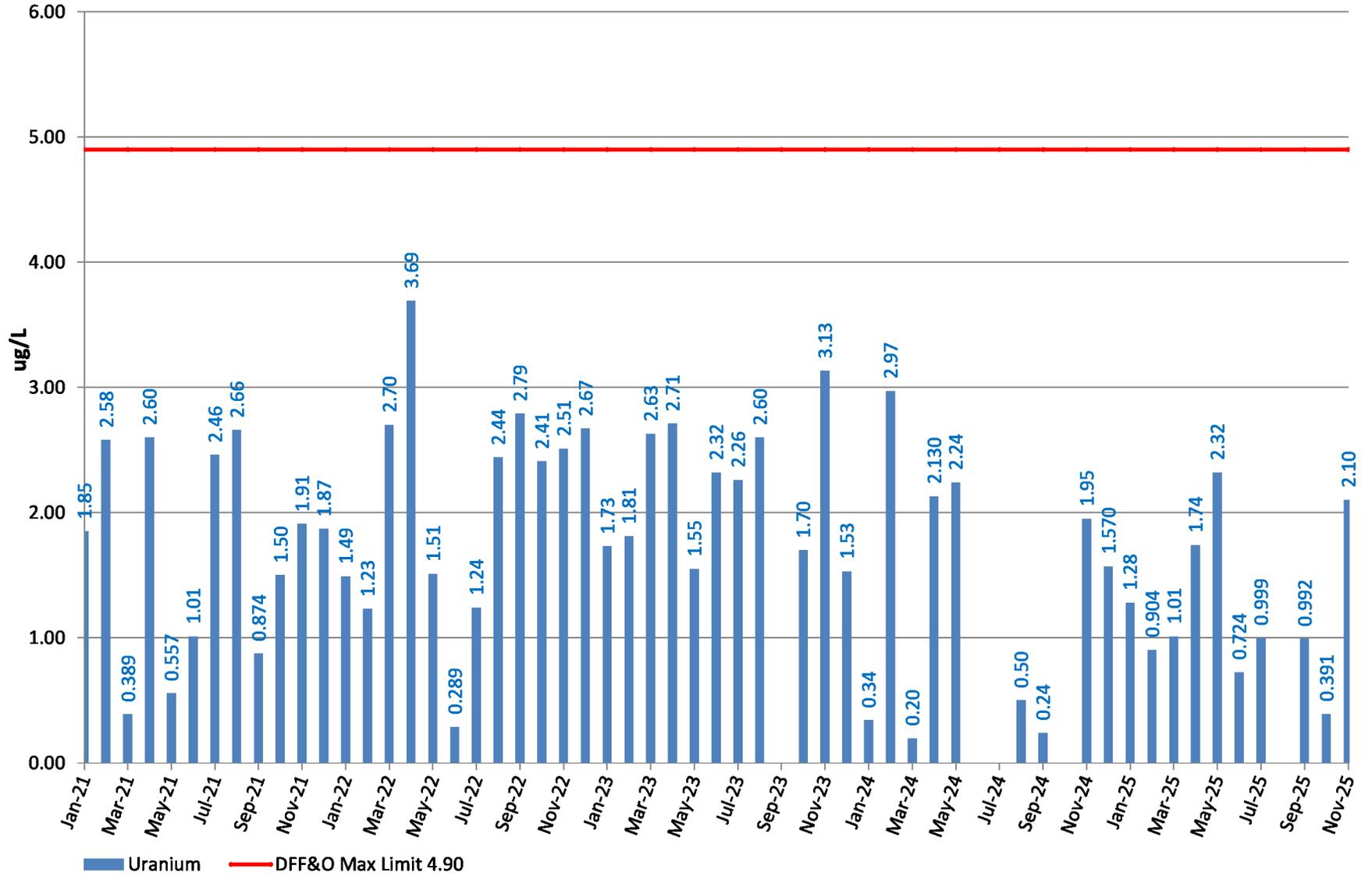
X-745C3 Gross Alpha



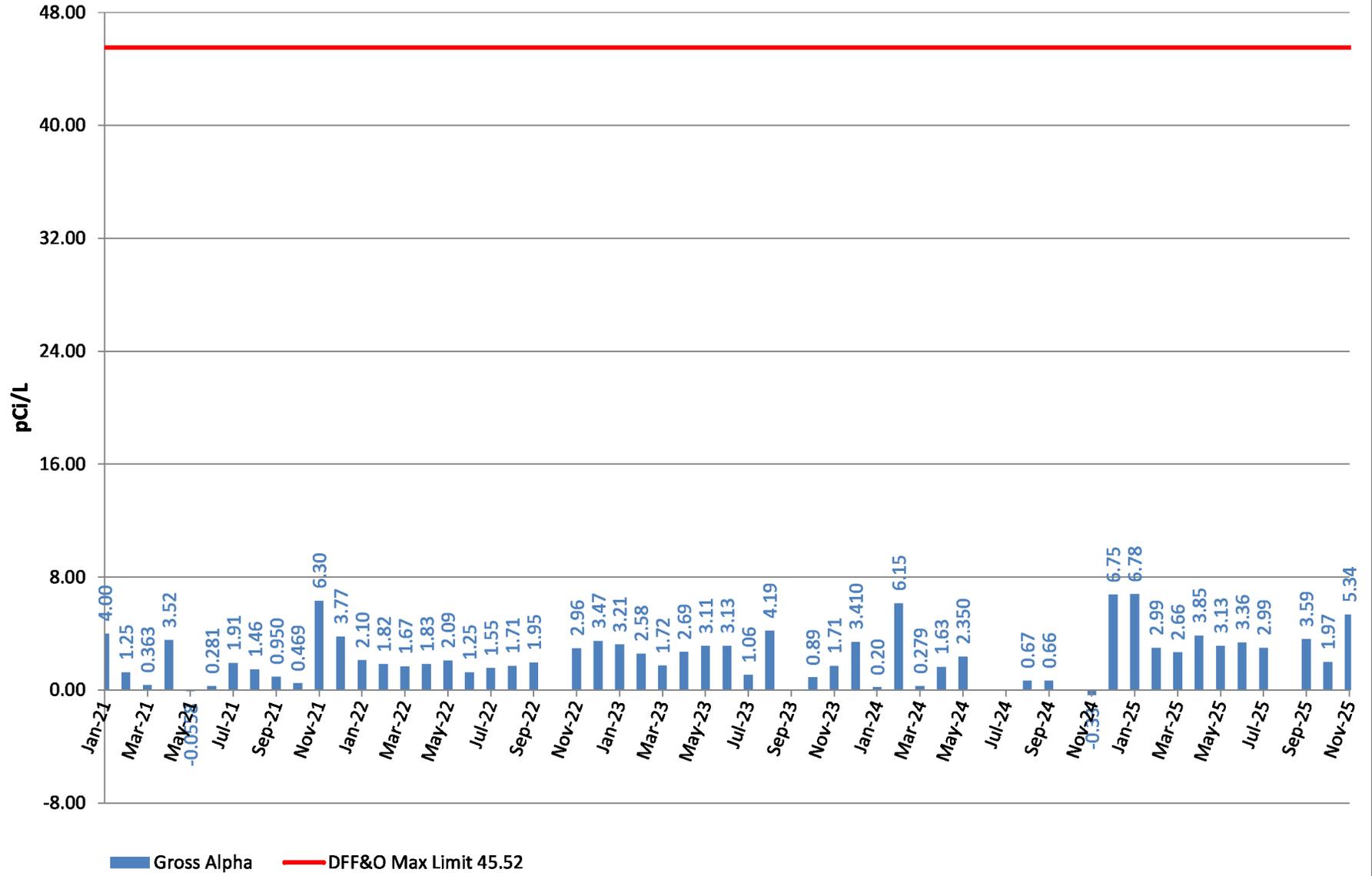
X-745C3 Gross Beta



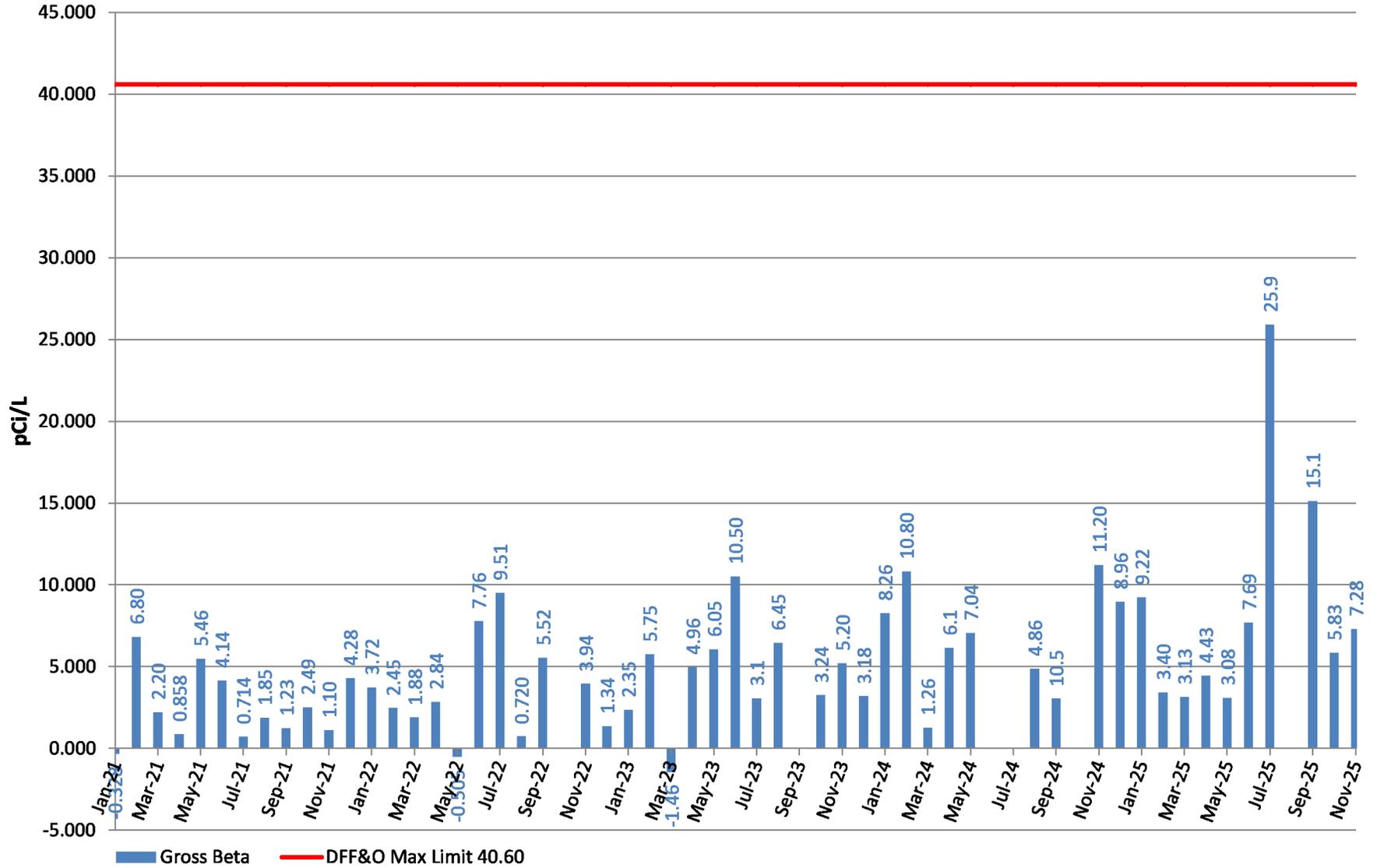
X-745C3 Uranium



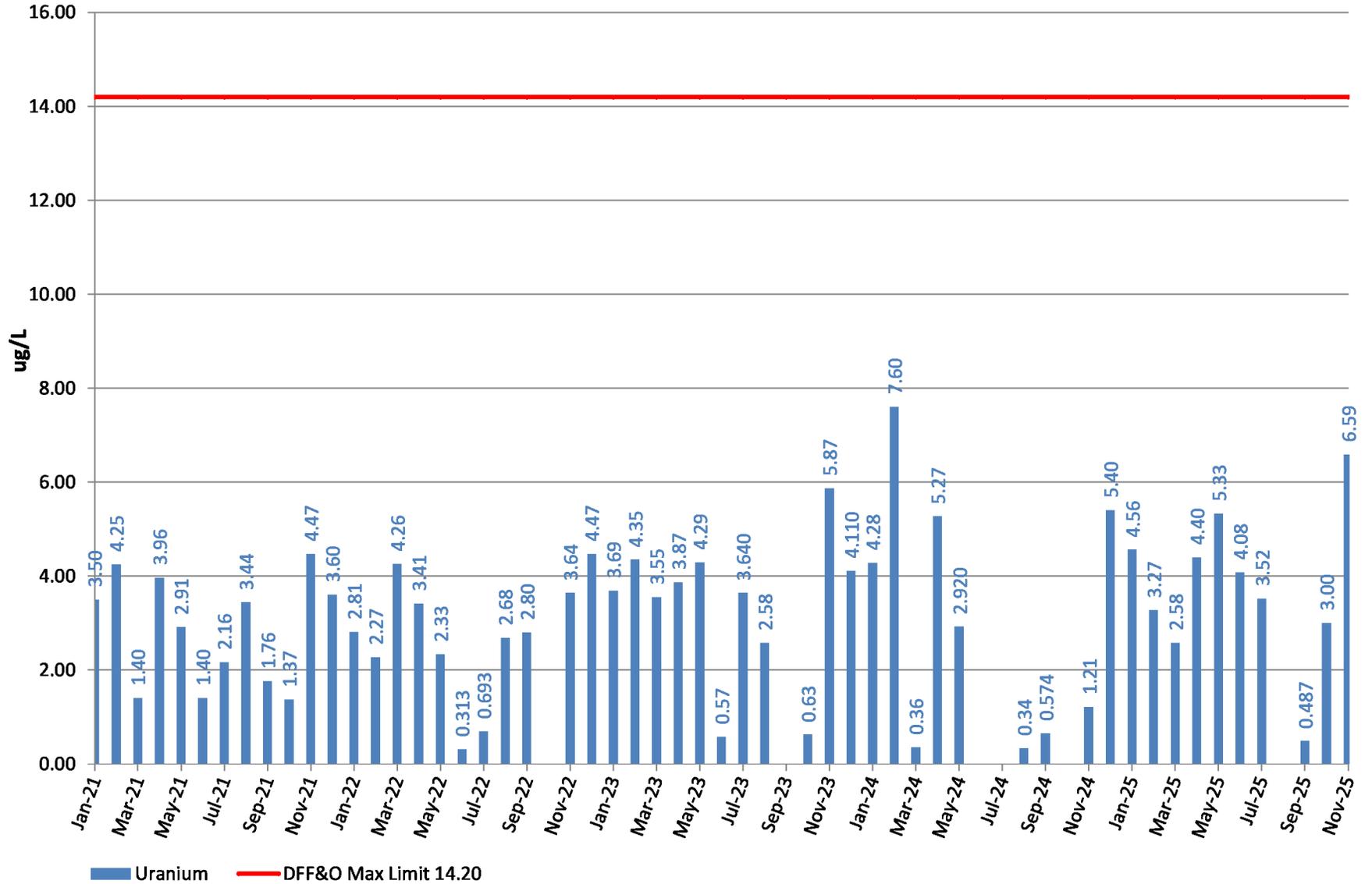
X-745C4 Gross Alpha



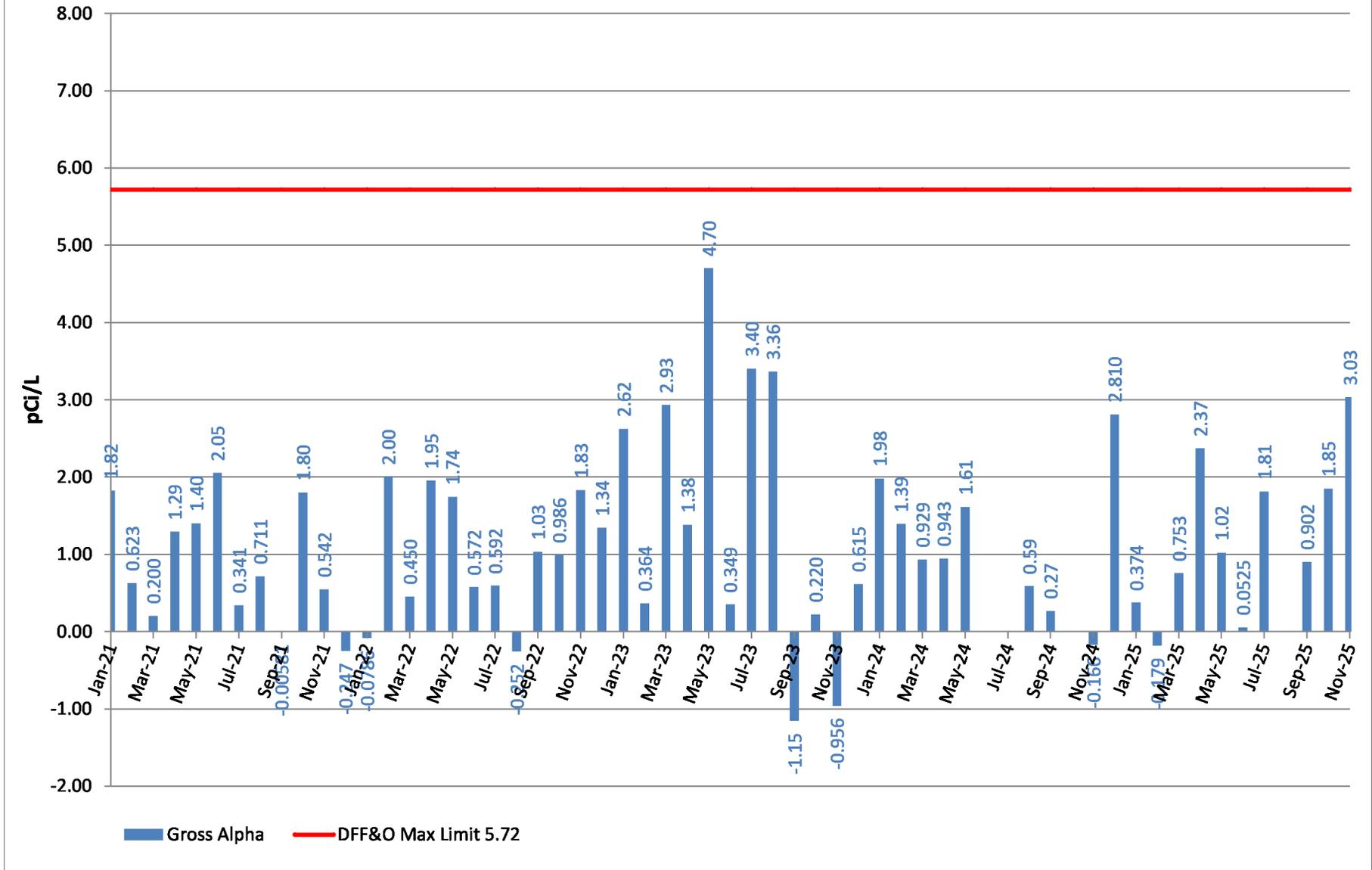
X-745C4 Gross Beta



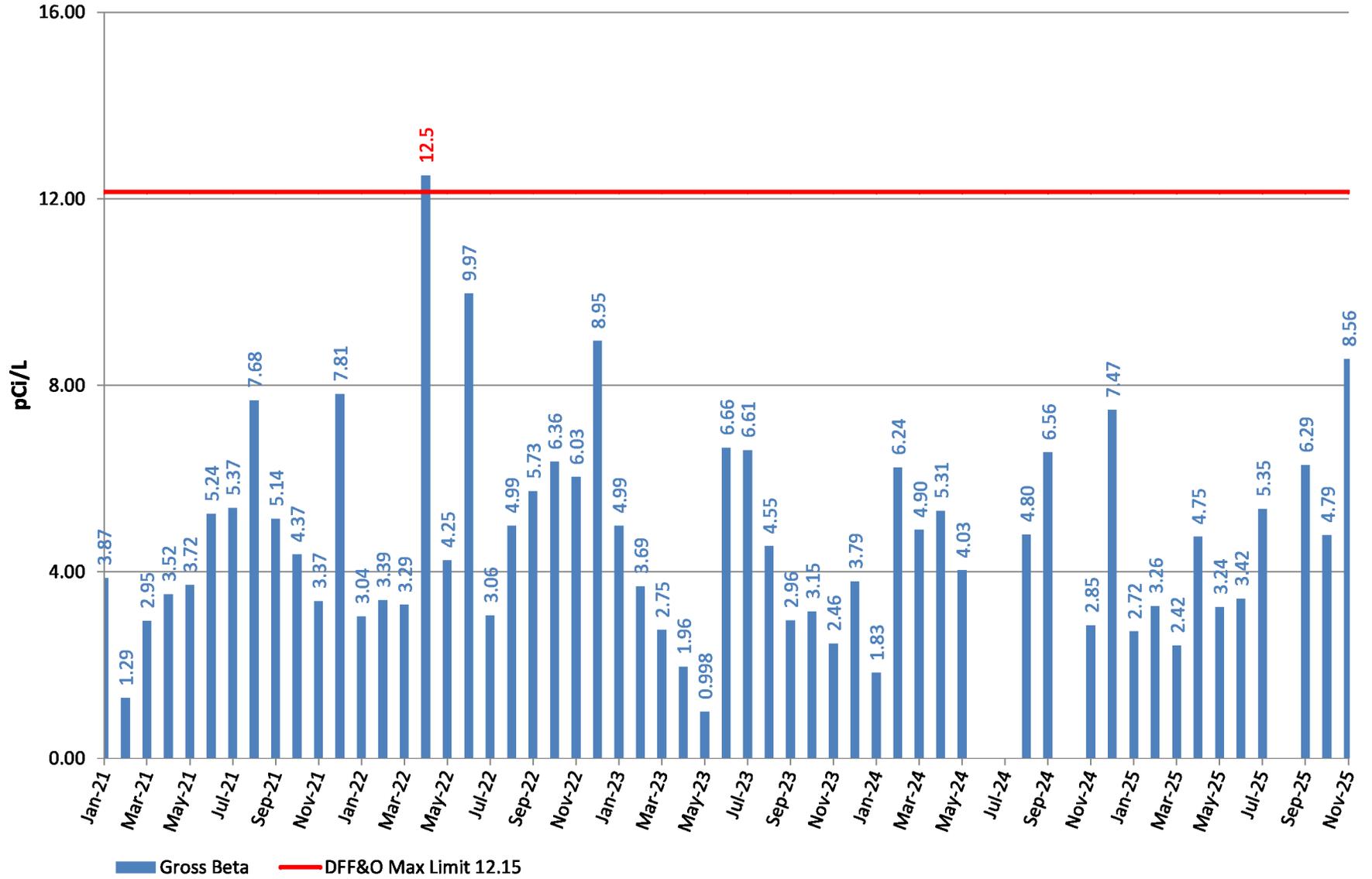
X-745C4 Uranium



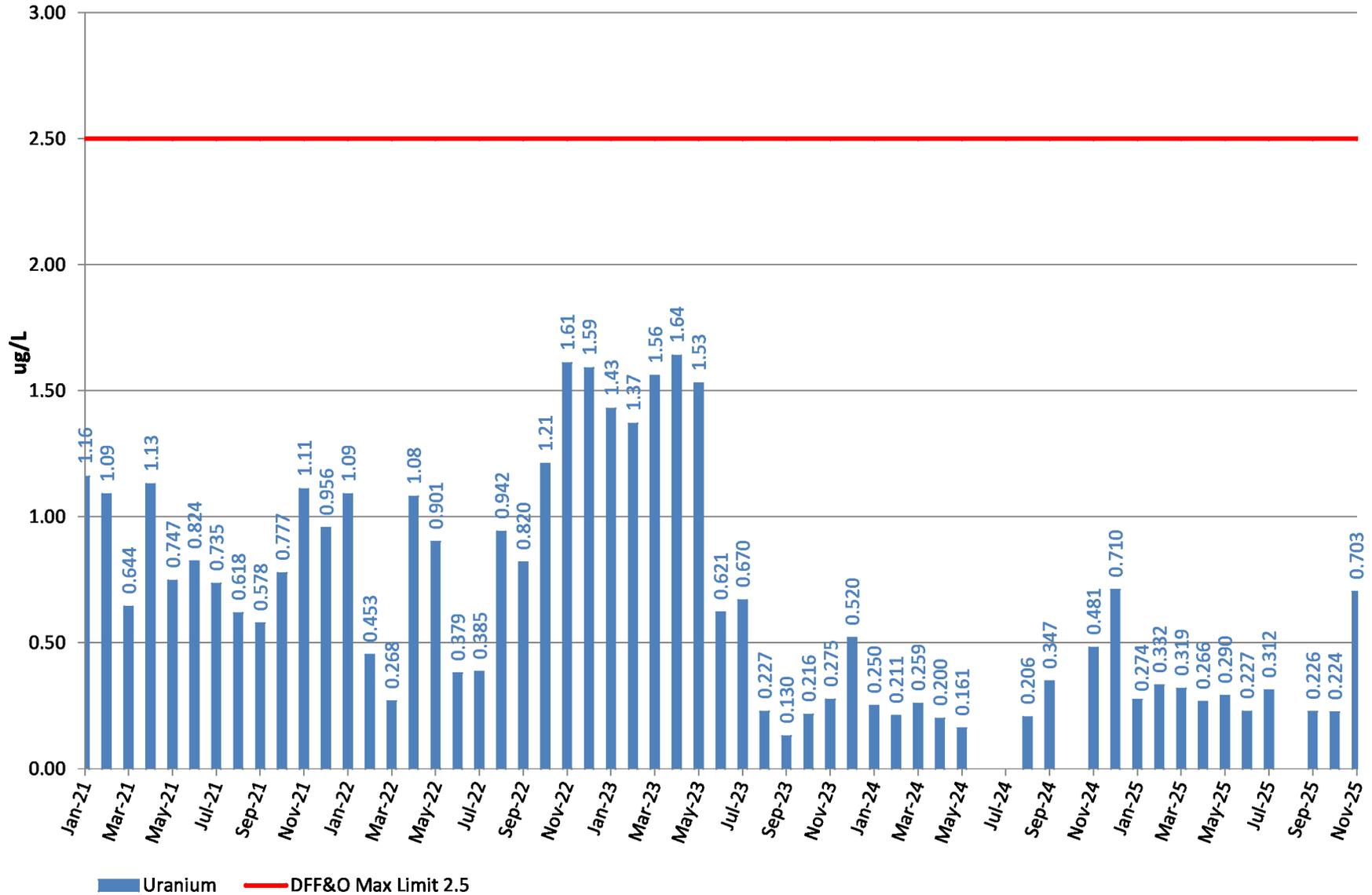
X-745E1 Gross Alpha



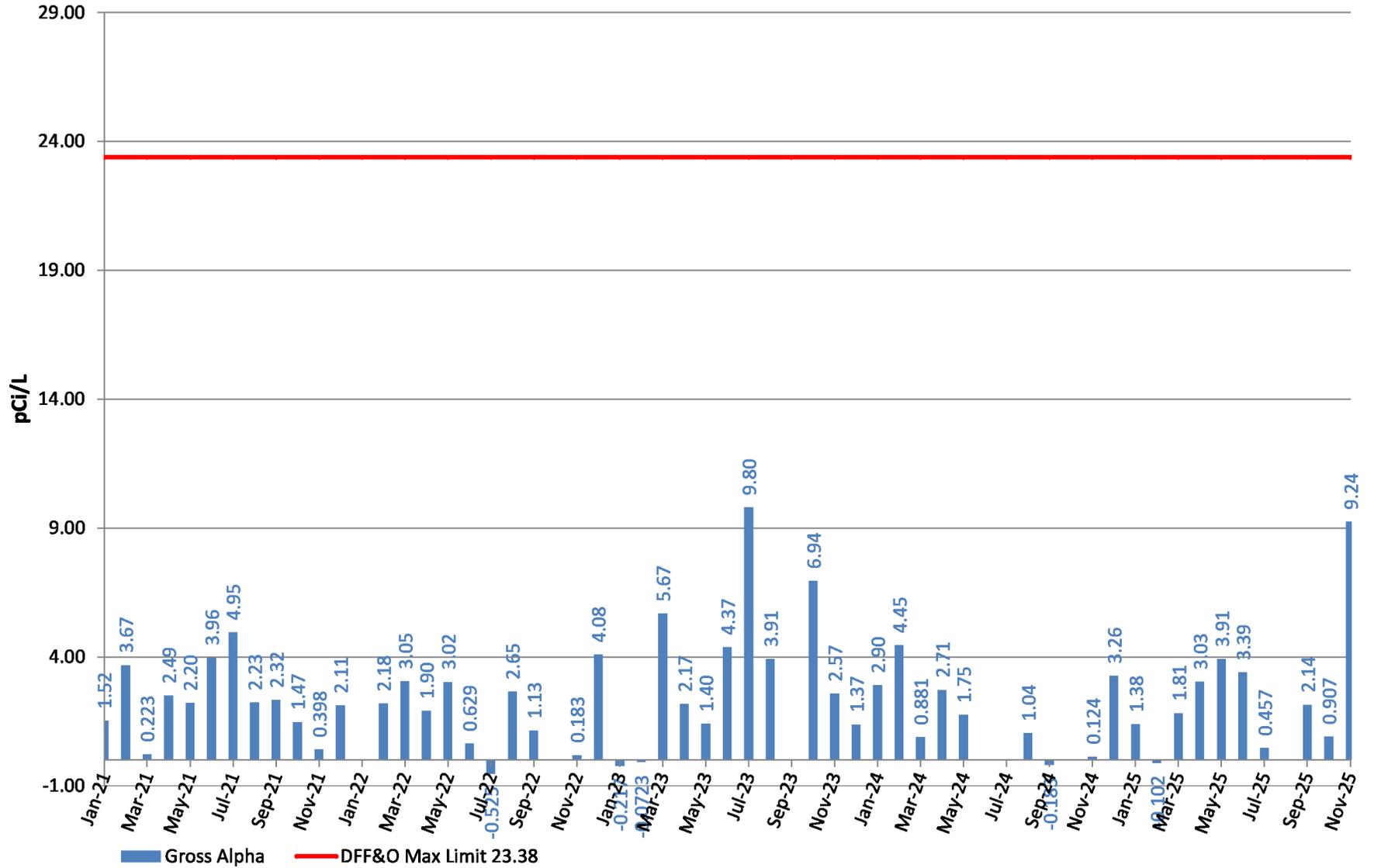
X-745E1 Gross Beta



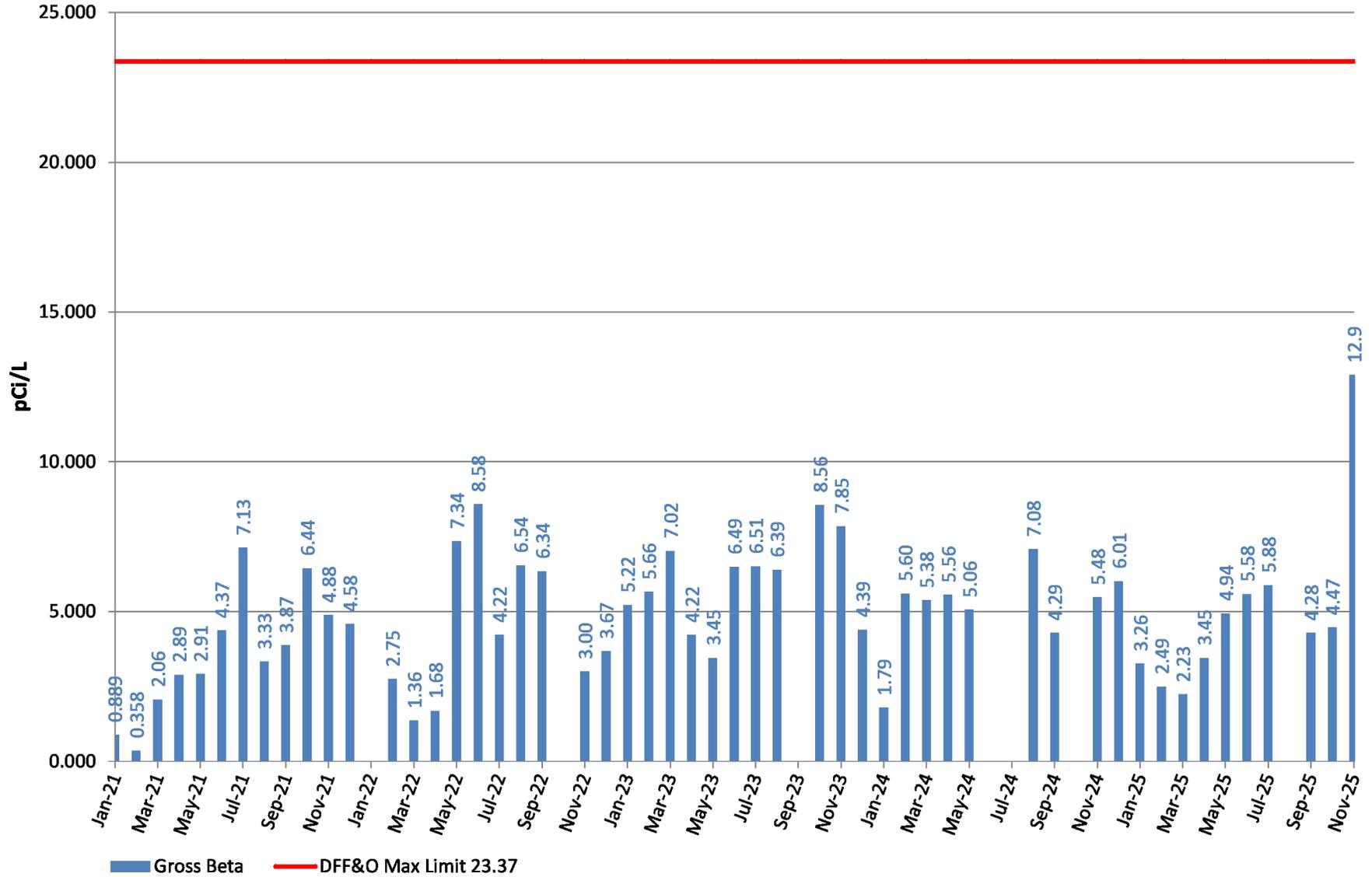
X-745E1 Uranium



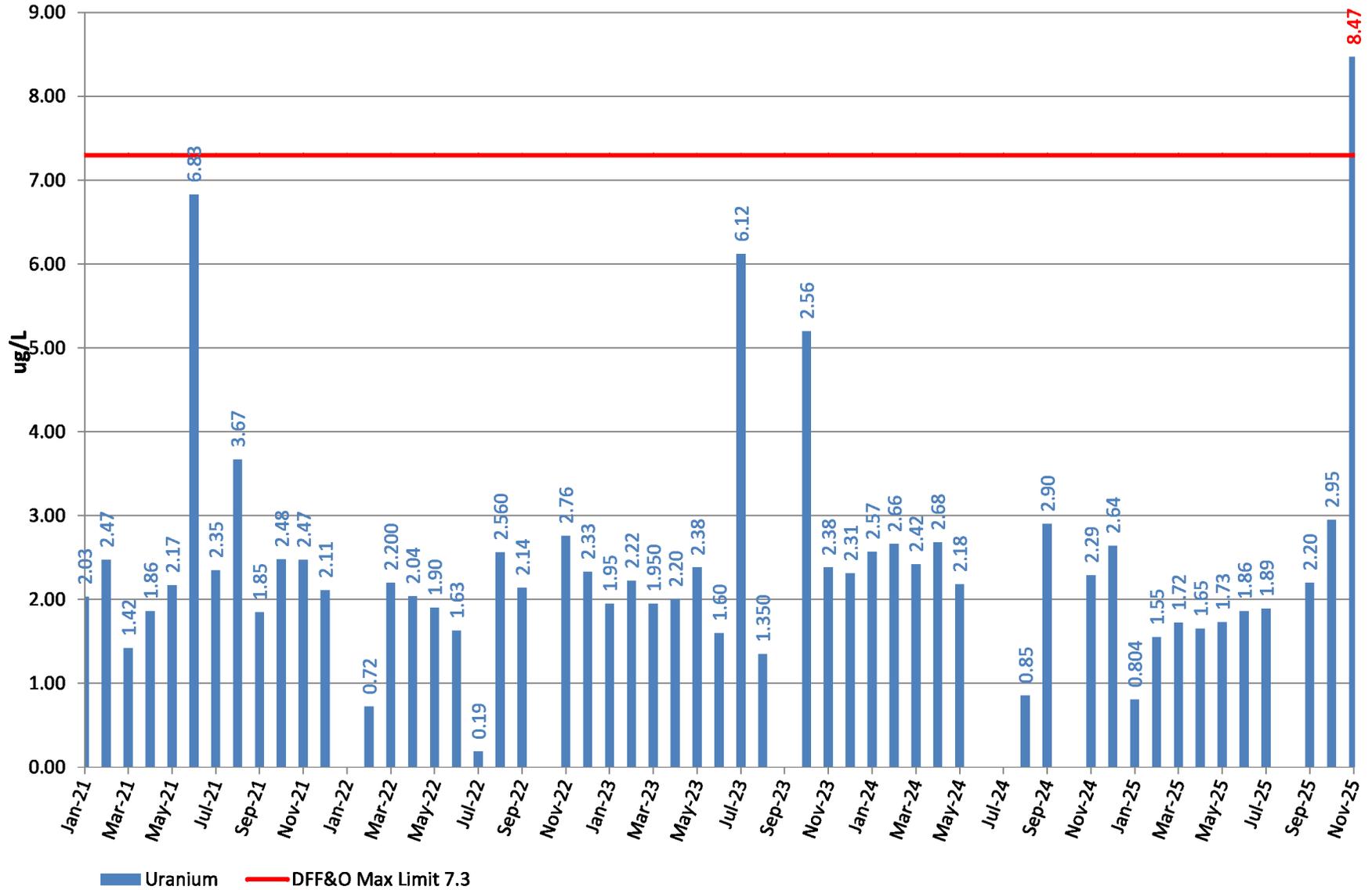
X-745G1A Gross Alpha



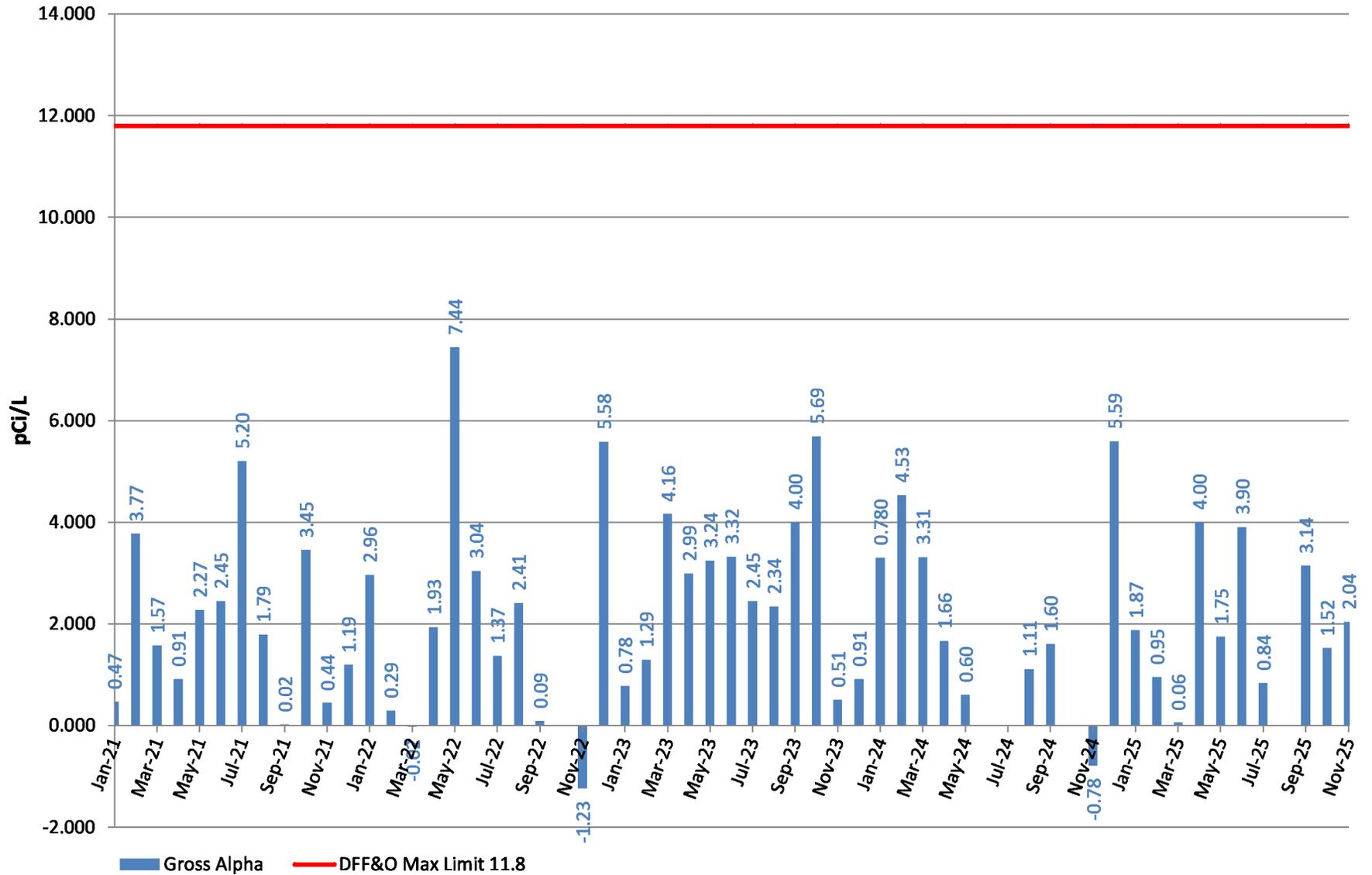
X-745G1A Gross Beta



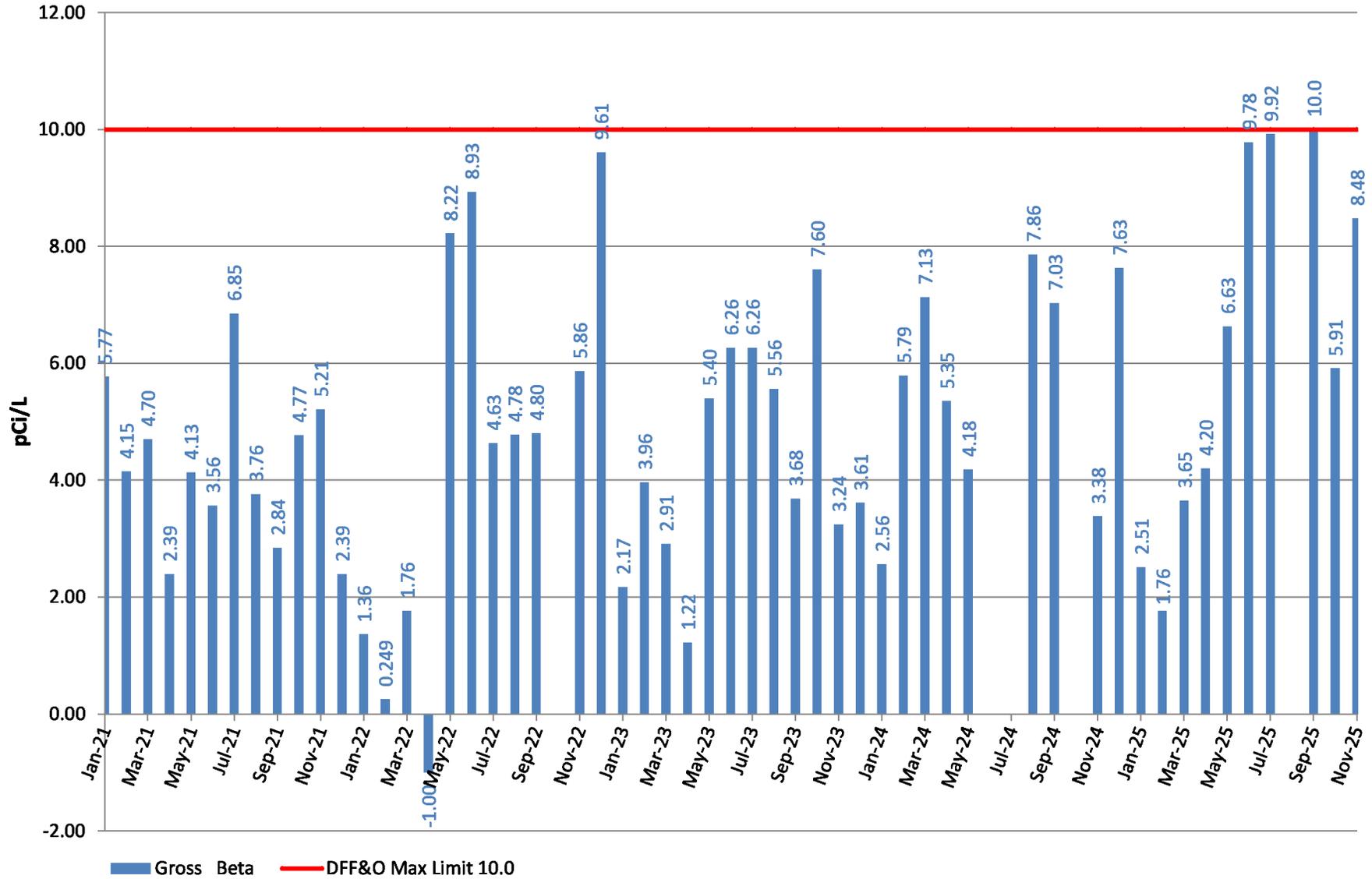
X-745G1A Uranium



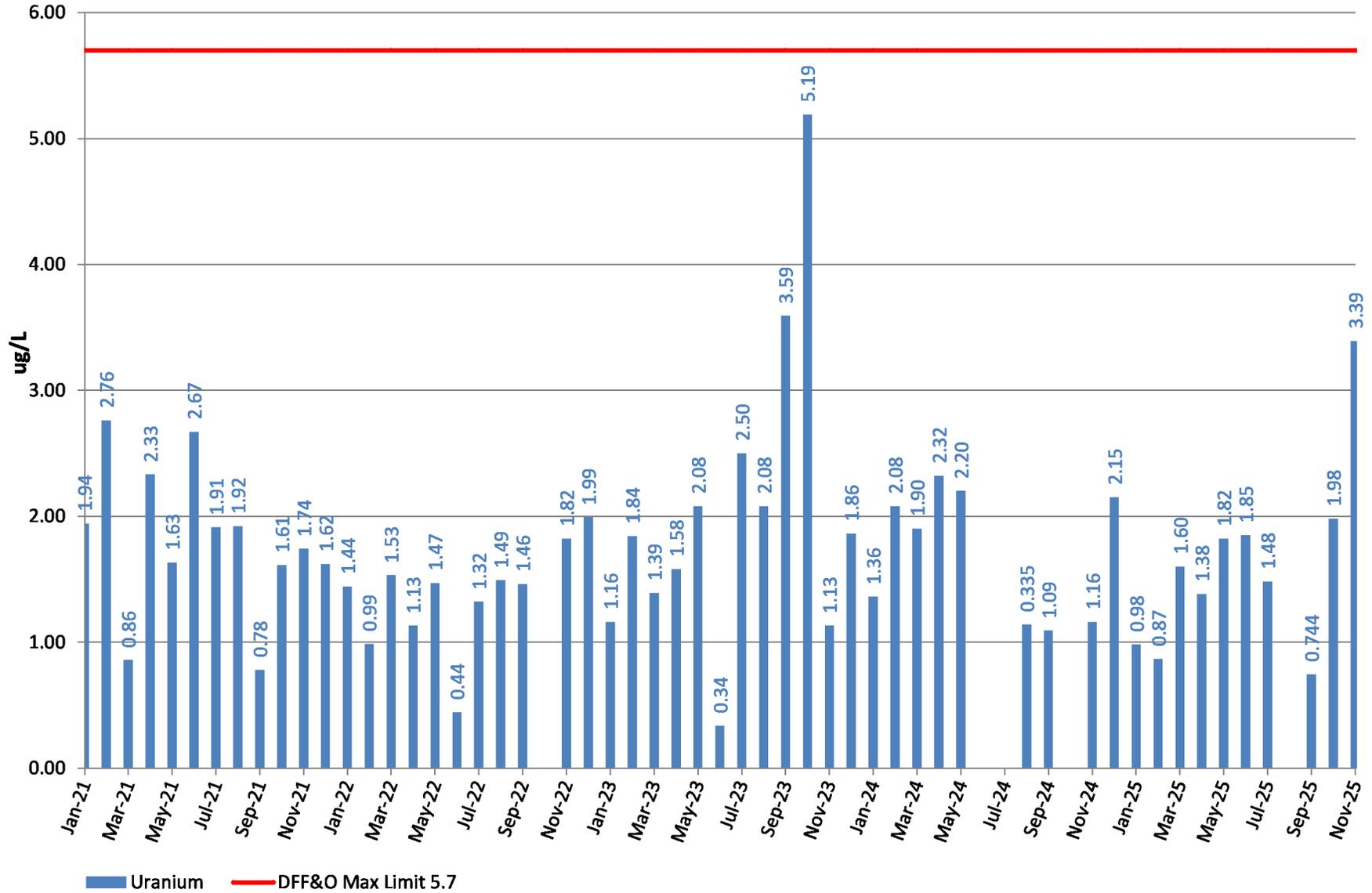
X-745G2 Gross Alpha



X-745G2 Gross Beta



X-745G2 Uranium





X-745G1A

X-745G2

X-745E1

X-745C3

X-745C2

X-745C1

X-745C4

PROJECT # 303.20
DATE: 11/14/2025
SCALE: N.T.S.
DRAWN BY: CKJ
CHECKED BY: DFH



RAD SAMPLING LOCATIONS

MISSION CONVERSION SERVICES ALLIANCE
PORTSMOUTH FACILITY
PIKETON, OH

FIGURE No.:

2.0

Survey #: RSD-PRT-CYLO-54631

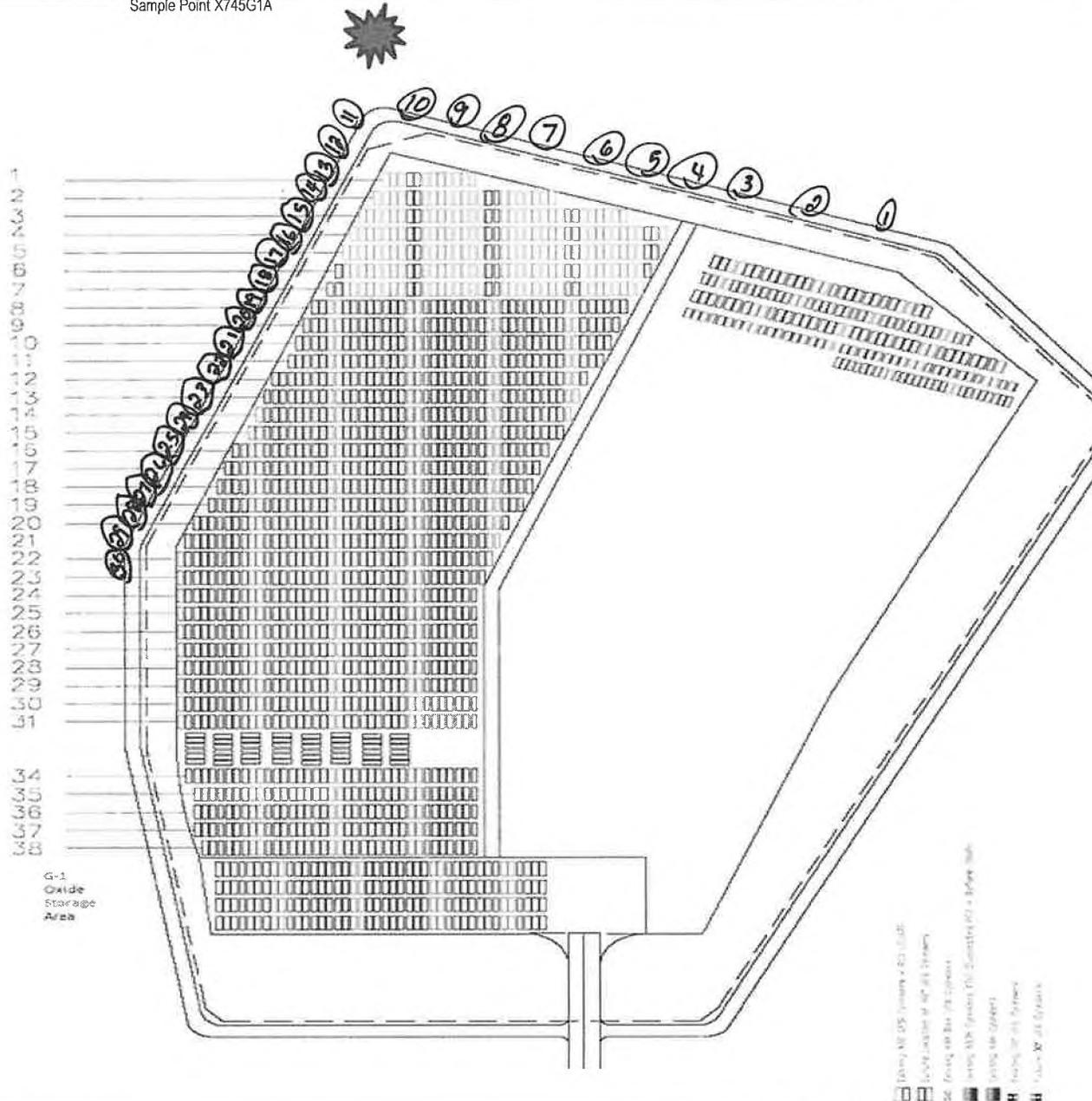
Date: 12/29/25

Time: 1300

RWP#:

25-PORTS-001

Sample Point X745G1A



ND=No Detectable activity above background

RCM/designee review:

[Signature]
Signature

12/29/2025
Date

Canberra iSeries
Unit ID: iMatic 111
Unit SN: 1221492.01

Smear Report

29Dec2025
14:11:10
User: Guest

Procedure: Smear

Time Min: 0.50 Smpl Rpt: 1 Grp Rpt: 001:001
α Preset: 99999999 β Preset: 99999999

DUF6 Calibration

α Bkg: BkgBlank 12May2025 7.00E-02 ±2.13E-02
α(3-5.0) Bkg: BkgBlank 12May2025 3.00E-02 ±1.53E-02
α(3-5.6) Bkg: BkgBlank 12May2025 4.00E-02 ±2.21E-02
α(3-6.4) Bkg: BkgBlank 12May2025 5.00E-02 ±2.24E-02
β Bkg: BkgBlank 12May2025 0.37 ±5.39E-02

α Eff: Th-230 008 12May2025 29.63 ± 1.48
β Eff: Tc-99 009 12May2025 10.60 ± 0.53

α Warning: 200.00 α Action: 800.00
β Warning: 200.00 β Action: 800.00

| SAMPLE NUM:ITR | TIME MIN | ALPHA DPM | ALPHA ±1 SIGMA | ALPHA LIMIT | BETA DPM | BETA ±1 SIGMA |
|-------------------|-------------|--------------|-------------------|----------------|-------------|------------------|
| 001:001 | 0.50 | -0.24 | 7.30E-02 | | 34.23 | 26.73 |
| 002:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 003:001 | 0.50 | -0.24 | 7.30E-02 | | 15.37 | 18.88 |
| 004:001 | 0.50 | -0.24 | 7.30E-02 | | 53.09 | 32.78 |
| 005:001 | 0.50 | -0.24 | 7.30E-02 | | 15.37 | 18.88 |
| 006:001 | 0.50 | -0.24 | 7.30E-02 | | 15.37 | 18.88 |
| 007:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 008:001 | 0.50 | 6.51 | 6.76 | | -3.49 | 0.54 |
| 009:001 | 0.50 | -0.24 | 7.30E-02 | | 15.37 | 18.88 |
| 010:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 011:001 | 0.50 | 6.51 | 6.76 | | -3.49 | 0.54 |
| 012:001 | 0.50 | -0.24 | 7.30E-02 | | 15.37 | 18.88 |
| 013:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 014:001 | 0.50 | -0.24 | 7.30E-02 | | 34.23 | 26.73 |
| 015:001 | 0.50 | -0.24 | 7.30E-02 | | 15.37 | 18.88 |
| 016:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 017:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 018:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 019:001 | 0.50 | -0.24 | 7.30E-02 | | 34.23 | 26.73 |
| 020:001 | 0.50 | -0.24 | 7.30E-02 | | 15.37 | 18.88 |
| 021:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 022:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 023:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 024:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 025:001 | 0.50 | -0.24 | 7.30E-02 | | 34.23 | 26.73 |
| 026:001 | 0.50 | -0.24 | 7.30E-02 | | 53.09 | 32.78 |
| 027:001 | 0.50 | -0.24 | 7.30E-02 | | 15.37 | 18.88 |
| 028:001 | 0.50 | 6.51 | 6.76 | | -3.49 | 0.54 |
| 029:001 | 0.50 | -0.24 | 7.30E-02 | | 15.37 | 18.88 |
| 030:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |

Survey Number RSD-PRT-CY0-5463
Date: 12/29/25 Page 3 of 3
Performed by: N. Franke/Scott PL
Reviewed by: Chris Hundy CJ-PL

Survey #: RSD-PRT-CYLO-54632

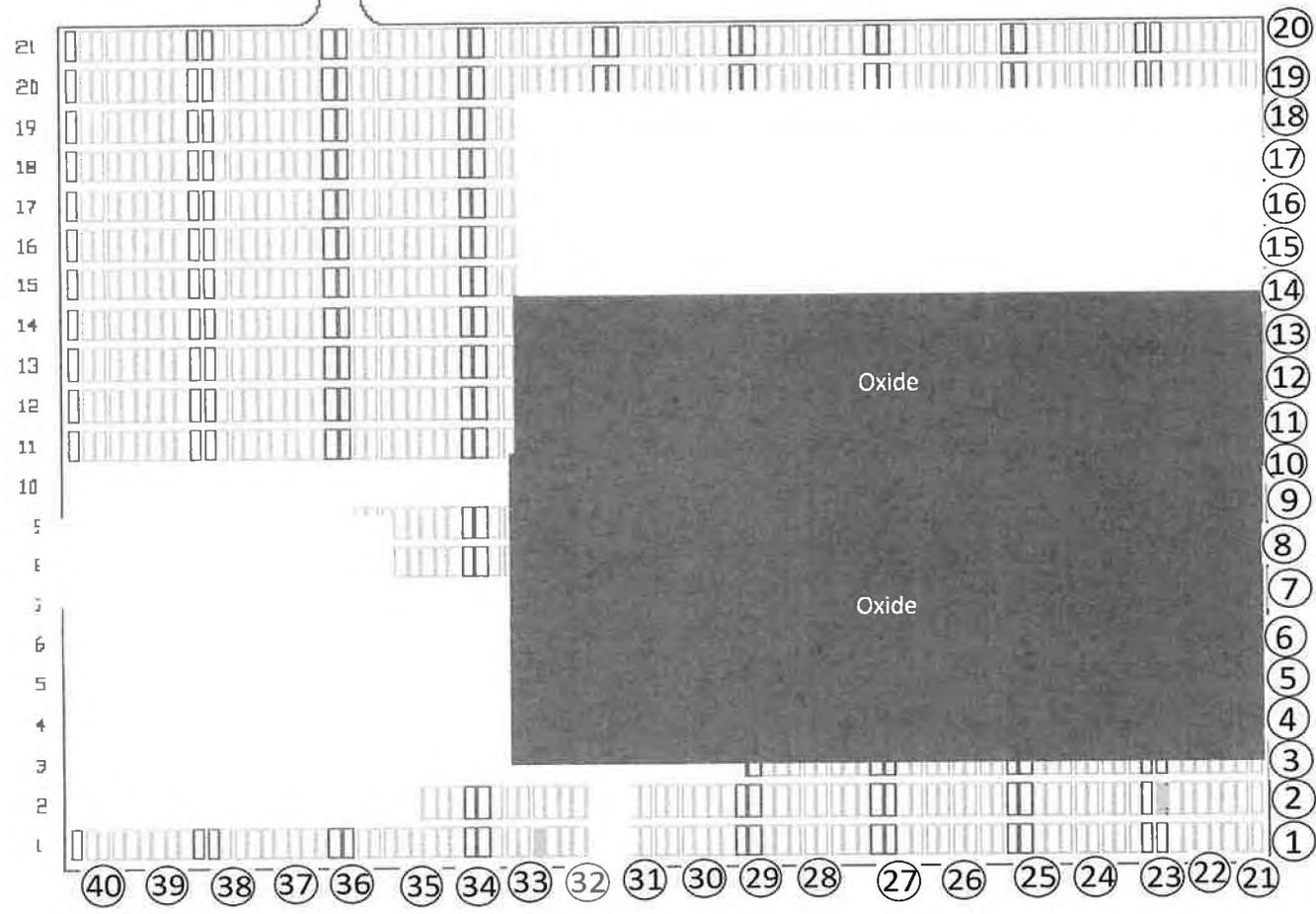
Date: 12/29/25

Time: 1345

RWP#:

25-PORTS-001

Section 1



Sample Point C2



ND=No Detectable activity above background

RCM/designee review:

C. Frankel
Signature

12/29/2025
Date

DUF6 RADIOLOGICAL SURVEY PORTSMOUTH

N. Frankel *[Signature]* 905188

Survey #: RSD-PRT-CYLO-54632

Date: 12/29/25

Time: 1345

RWP#:

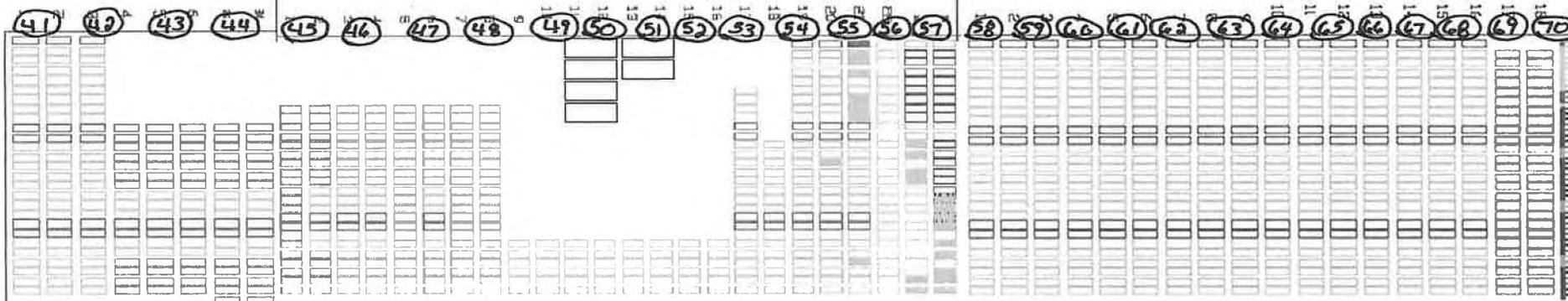
25-PORTS-001



Section 2

Section 4
Sample Point X-745C3

Section 6



ND=No Detectable activity above background

RCM/designee review:

[Signature]
Signature

12/29/2025

Date

Canberra iSeries
Unit ID: iMatic 111
Unit SN: 1221492.01

Smear Report

29Dec2025
14:32:36
User: Guest

Procedure: Smear

Time Min: 0.50 Smpl Rpt: 1 Grp Rpt: 001:001
 α Preset: 99999999 β Preset: 99999999

DUF6 Calibration

α Bkg: BkgBlank 12May2025 7.00E-02 \pm 2.13E-02
 α (3-5.0) Bkg: BkgBlank 12May2025 3.00E-02 \pm 1.53E-02
 α (3-5.6) Bkg: BkgBlank 12May2025 4.00E-02 \pm 2.21E-02
 α (3-6.4) Bkg: BkgBlank 12May2025 5.00E-02 \pm 2.24E-02
 β Bkg: BkgBlank 12May2025 0.37 \pm 5.39E-02

α Eff: Th-230 008 12May2025 29.63 \pm 1.48
 β Eff: Tc-99 009 12May2025 10.60 \pm 0.53

α Warning: 200.00 α Action: 800.00
 β Warning: 200.00 β Action: 800.00

| SAMPLE NUM: ITR | TIME MIN | ALPHA DPM | ALPHA \pm 1 SIGMA | ALPHA LIMIT | BETA DPM | BETA \pm 1 SIGMA |
|--------------------|-------------|--------------|------------------------|----------------|-------------|-----------------------|
| 001:001 | 0.50 | -0.24 | 7.30E-02 | | 71.96 | 37.90 |
| 002:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 003:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 004:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 005:001 | 0.50 | -0.24 | 7.30E-02 | | 15.37 | 18.88 |
| 006:011:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 007:012:001 | 0.50 | -0.24 | 7.30E-02 | | 15.37 | 18.88 |
| 008:013:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 009:014:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 010:006:001 | 0.50 | 6.51 | 6.76 | | 15.37 | 18.88 |
| 011:007:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 012:008:001 | 0.50 | 6.51 | 6.76 | | 15.37 | 18.88 |
| 013:009:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 014:010:001 | 0.50 | -0.24 | 7.30E-02 | | 15.37 | 18.88 |
| 015:001 | 0.50 | -0.24 | 7.30E-02 | | 34.23 | 26.73 |
| 016:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 017:001 | 0.50 | -0.24 | 7.30E-02 | | 15.37 | 18.88 |
| 018:001 | 0.50 | -0.24 | 7.30E-02 | | 15.37 | 18.88 |
| 019:001 | 0.50 | -0.24 | 7.30E-02 | | 53.09 | 32.78 |
| 020:001 | 0.50 | 6.51 | 6.76 | | -3.49 | 0.54 |
| 021:001 | 0.50 | -0.24 | 7.30E-02 | | 15.37 | 18.88 |
| 022:001 | 0.50 | -0.24 | 7.30E-02 | | 15.37 | 18.88 |
| 023:001 | 0.50 | -0.24 | 7.30E-02 | | 15.37 | 18.88 |
| 024:001 | 0.50 | -0.24 | 7.30E-02 | | 15.37 | 18.88 |
| 025:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 026:001 | 0.50 | -0.24 | 7.30E-02 | | 15.37 | 18.88 |
| 027:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 028:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 029:001 | 0.50 | -0.24 | 7.30E-02 | | 34.23 | 26.73 |
| 030:001 | 0.50 | 6.51 | 6.76 | | -3.49 | 0.54 |
| 031:001 | 0.50 | -0.24 | 7.30E-02 | | 15.37 | 18.88 |
| 032:001 | 0.50 | -0.24 | 7.30E-02 | | -3.49 | 0.54 |
| 033:001 | 0.50 | 6.51 | 6.76 | | 15.37 | 18.88 |
| 034:001 | 0.50 | 6.51 | 6.76 | | -3.49 | 0.54 |

Survey Number: RSD-PRT-CYLO-54632
Date: 12/19/25 Page 4 of 5
Performed by: N. Franke / Matt PZ
Reviewed by: Chris Lundy

| | | | | | |
|---------|------|-------|----------|-------|-------|
| 035:001 | 0.50 | -0.24 | 7.30E-02 | 15.37 | 18.88 |
| 036:001 | 0.50 | -0.24 | 7.30E-02 | 34.23 | 26.73 |
| 037:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |
| 038:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |
| 039:001 | 0.50 | -0.24 | 7.30E-02 | 15.37 | 18.88 |
| 040:001 | 0.50 | -0.24 | 7.30E-02 | 15.37 | 18.88 |
| 041:001 | 0.50 | -0.24 | 7.30E-02 | 34.23 | 26.73 |
| 042:001 | 0.50 | -0.24 | 7.30E-02 | 34.23 | 26.73 |
| 043:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |
| 044:001 | 0.50 | -0.24 | 7.30E-02 | 34.23 | 26.73 |
| 045:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |
| 046:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |
| 047:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |
| 048:001 | 0.50 | -0.24 | 7.30E-02 | 34.23 | 26.73 |
| 049:001 | 0.50 | -0.24 | 7.30E-02 | 15.37 | 18.88 |
| 050:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |
| 051:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |
| 052:001 | 0.50 | -0.24 | 7.30E-02 | 15.37 | 18.88 |
| 053:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |
| 054:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |
| 055:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |
| 056:001 | 0.50 | 6.51 | 6.76 | -3.49 | 0.54 |
| 057:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |
| 058:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |
| 059:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |
| 060:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |
| 061:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |
| 062:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |
| 063:001 | 0.50 | -0.24 | 7.30E-02 | 34.23 | 26.73 |
| 064:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |
| 065:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |
| 066:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |
| 067:001 | 0.50 | -0.24 | 7.30E-02 | 15.37 | 18.88 |
| 068:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |
| 069:001 | 0.50 | -0.24 | 7.30E-02 | 15.37 | 18.88 |
| 070:001 | 0.50 | -0.24 | 7.30E-02 | -3.49 | 0.54 |

Survey Number RSD-PRT-CYLO-54632

Date: 12/29/25 Page 5 of 5

Performed by: N. Franke 
 Print

Reviewed by: Chris Luncley 
 Print