

**MONTHLY PROGRESS REPORT #344
FOR NOVEMBER 2025**

EPA REGION I ADMINISTRATIVE ORDERS SDWA 1-97-1019 and 1-2000-0014

**JOINT BASE CAPE COD (JBCC)
TRAINING RANGE AND IMPACT AREA**

The following summary of progress is for the period from 01 to 30 November 2025.

1. SUMMARY OF REMEDIATION ACTIONS

Remediation Actions (RA) Underway at Camp Edwards as of 28 November 2025:

Demolition Area 1 Comprehensive Groundwater RA

The Demolition Area 1 Comprehensive Groundwater RA consists of the removal and treatment of contaminated groundwater to control further migration of explosives compounds and perchlorate. Extraction, treatment, and recharge (ETR) systems at Frank Perkins Road and Base Boundary include extraction wells, an ex-situ treatment process to remove explosives compounds and perchlorate from the groundwater, and an infiltration gallery and injection wells to return treated water to the aquifer.

The Frank Perkins Road Treatment Facility has been optimized as part of the Environmental and System Performance Monitoring (ESPM) program at Demolition Area 1. On 31 March 2025, the flow rate at the Frank Perkins Treatment Facility was reduced from 175 gallons per minute (gpm) to 100 gpm as a result of shutting down extraction well D1-EW-501, leaving only D1-EW-4 pumping as part of the Frank Perkins Road system. Due to a vault flood on 23 May 2025, which damaged electrical and pump equipment EW-501 has been operating at 100 gpm in place of EW-4. Diagnostics are ongoing. As of 28 November 2025, over 3.185 billion gallons of water were treated and re-injected. The Frank Perkins Treatment Facility was turned off on 30 September 2025 due to the government shutdown and will remain down until further notice.

The Base Boundary Mobile Treatment Unit (MTU) continues to operate at a flow rate of 65 gpm. As of 28 November 2025, over 451.9 million gallons of water were treated and re-injected. No Base Boundary system shutdowns occurred in the reporting period:

The Leading-Edge System was turned off with regulatory approval on 19 August 2025 (formerly operated at a flow rate of 125 gpm). Over 469.4 million gallons of water were treated and re-injected since RA.

The Pew Road MTU was turned off with regulatory approval on 08 March 2021 (formerly operated at a flow rate of 65 gpm). Over 672.9 million gallons of water were treated and re-injected during the RA.

J-2 Range Groundwater RA

Northern

The J-2 Range Northern Treatment facility consists of removal and treatment of contaminated groundwater to control further migration of explosives compounds and perchlorate. The Extraction, Treatment, and Re-infiltration system includes three extraction wells, an ex-situ treatment process to remove explosives compounds and perchlorate from the groundwater, and infiltration galleries to return treated water to the aquifer.

The Northern MTUs E and F continue to operate at a flow rate of 250 gpm. As of 28 November 2025, over 2.396 billion gallons of water have been treated and re-injected. No MTU E and F system shutdowns occurred in the reporting period.

The Northern Treatment Building G continues to operate at a flow rate of 225 gpm. As of 28 November 2025, over 1.847 billion gallons of water have been treated and re-injected. No MTU G system shutdowns occurred in the reporting period.

Eastern

The J-2 Range Eastern Treatment system consists of removal and treatment of groundwater to minimize downgradient migration of explosives compounds and perchlorate. The ETI system includes the following components: two extraction wells, an ex-situ treatment process consisting of an ion exchange (IX) resin and granular activated carbon (GAC) media to treat perchlorate and explosives compounds, and two infiltration galleries. The flow rate at MTU J was reduced from 120 gpm to 90 gpm and MTU K was turned off with regulatory approval on 28 October 2025. The J-2 Range Eastern system is running at a combined total flow rate of 340 gpm.

The MTUs H and I continue to operate at a flow rate of 250 gpm. As of 28 November 2025, over 2.040 billion gallons of water have been treated and re-injected. The following MTU H and I system shutdowns occurred in the reporting period:

- 1150 on 19 November 2025 to replace a leaking sample port and were restarted at 1205 on 19 November 2025.

MTU J continues to operate at a flow rate of 90 gpm. As of 28 November 2025, over 956.2 million gallons of water have been treated and re-injected. No MTU J shutdowns occurred in the reporting period.

MTU K was turned off with regulatory approval at 1110 on 28 October 2025. (formerly operated at a flow rate of 125 gpm). Over 1.086 billion gallons of water were treated and re-injected during the RA.

J-3 Range Groundwater RA

The J-3 Range Groundwater RA consists of removal and treatment of contaminated groundwater to control further migration of explosives compounds and perchlorate. The ETR system includes four extraction wells, an ex-situ treatment process to remove explosives compounds and perchlorate from the groundwater and utilizes the existing Fuel Spill-12 (FS-12) injection wells to return treated water to the aquifer.

The J-3 system is currently operating at a flow rate of 255 gpm. As of 28 November 2025, over 2.021 billion gallons of water have been treated and re-injected. No J-3 system shutdowns occurred in the reporting period.

J-1 Range Groundwater RA

Southern

The J-1 Range Southern Groundwater RA consists of removal and treatment of contaminated groundwater to control further migration of explosives compounds. The ETR system includes one extraction well, an ex-situ treatment process to remove explosives compounds from the groundwater, and an infiltration gallery to return treated water to the aquifer.

The Southern MTU has been optimized as part of the ESPM program at J-1 Range Southern. The on-base extraction well J1SEW0001 was turned off with regulatory approval on 28 February 2017 (formerly operated at a flow of 35 gpm), and flow was increased from 90 gpm to 125 gpm at the Leading-Edge extraction well J1SEW0002. The Leading-Edge extraction well continues to operate at a flow rate of 125 gpm. As of 28 November 2025, over 896.0 million gallons of water have been treated and re-injected. No J-1 Range Southern MTU shutdowns occurred in the reporting period.

Northern

The J-1 Range Northern Groundwater RA consists of removal and treatment of contaminated groundwater to control further migration of explosives compounds and perchlorate. The ETR system includes two extraction wells, an ex-situ treatment process to remove explosives compounds and perchlorate from the groundwater, and an infiltration gallery to return treated water to the aquifer.

The Northern MTU continues to operate at a total system flow rate of 250 gpm. The flow rates for the two extraction wells at J-1 Northern were modified on 28 October 2024 based on regulatory agency concurrence with the J-1 Range Northern Data Presentation for January 2023 to December 2023. The flow rate at J1NEW0001 was reduced from 125 gpm to 85 gpm and the flow rate at J1NEW0002 was increased from 125 gpm to 165 gpm. Due to an "Over Temp" alarm at EW0002 on 29 July 2025 J-1 North is currently running at 145 gpm, rather than 165 gpm and EW0001 is running at 105 gpm, rather than 85 gpm.

As of 28 November 2025, over 1.553 billion gallons of water have been treated and re-injected. No J-1 Range Northern MTU shutdowns occurred in the reporting period.

Central Impact Area RA

The Central Impact Area (CIA) Groundwater treatment system consists of removal and treatment of groundwater to minimize downgradient migration of explosives compounds and perchlorate. The ETR system includes the following components: three extraction wells, an ex-situ treatment process consisting of an ion exchange resin and granular activated carbon media to treat explosives compounds, and three infiltration galleries to return treated water to the aquifer. CIA systems 1, 2 and 3 continue to run at a total flow rate of 750 gpm. As of 28 November 2025, over 4.166 billion gallons of water have been treated and re-injected. CIA-1 and CIA-2 were turned off on 30 September 2025 due to the government shutdown. CIA-1 was restarted at 1203 and CIA-2 was restarted at 1238 on 17 November 2025.

2. SUMMARY OF ACTIONS TAKEN

Operable Unit (OU) Activity as of 28 November 2025:

CIA

- Source Area Investigation
 - Conducted routine visual check of CSS cover and surface area around perimeter of the CSS.

Demolition Area 1

- No activity

Demolition Area 2

- No activity

J-1 Range

- Groundwater sampling within the J-1 North SPM Program
- Bag filter change on 14 November 2025

J-2 Range

- No activity

J-3 Range

- No activity

L Range

- No activity

Small Arms Ranges

- No activity

Northwest Corner

- No activity

Training Areas

- No activity

Impact Area Roads

- No activity

Other

- Collected process water samples from Central Impact Area, Demolition Area 1, J-1 Range Northern, J-1 Range Southern, J-2 Range Eastern, J-2 Range Northern, and J-3 Range treatment systems.

JBCC Impact Area Groundwater Study Program (IAGWSP) Tech Update Meeting Minutes for 13 November 2025Project and Fieldwork Update

Darrin Smith (USACE) provided the project and fieldwork update. He reported that groundwater sampling crews completed the J-1 South (J-1 S) annual system performance monitoring (SPM) sampling. Sampling at the six recently installed J-2 North and J-3 wells also was completed. Annual sampling at J-1 North (J-1 N) has begun and is expected to continue into early December. Semi-annual sampling at Demolition Area 1 (Demo 1) will be next.

Mr. Smith (USACE) reviewed the treatment system sampling update. The October monthly treatment system process water sampling results are consistent with prior months: Perchlorate exceeded the action level in the mid and effluent at Demo-1 Base Boundary, however, it should be noted that the October Base Boundary samples were collected prior to the ion exchange changeout on 10/28/25. No samples were collected at CIA-1, CIA-2 and Demo-1 Frank Perkins Road (FPR) systems in October, as these systems were turned off due to the government shutdown.

November O&M sampling was performed from 11/4/25 through 11/6/25 and the results are pending.

Demo 1 FPR, CIA-1, and CIA-2 systems were turned off on 9/30/25 due to the government shutdown and will remain off until further notice.

Mr. Smith (USACE) noted that the dedicated bladder pumps were installed for the six recently installed J-2 N and J-3 monitoring wells. As stated above, PFAS sampling was performed at the wells.

Jeff Dvorak (USACE) stated there is currently no field work happening in the Central Impact Area.

Document and Project Tracking

Mr. Dvorak (USACE) reviewed the tracking list for documents and upcoming presentations.

Next Meeting Dates

December 11, 2025

January 8, 2026 (awaiting confirmation on 2026 dates)

JBCC Cleanup Team Meeting

The next JBCC Cleanup Team (JBCCCT) meeting is tentatively scheduled for December 10, 2025. Meeting details and presentation materials from previous meetings can be found on the IAGWSP web site at <http://jbcc-iagwsp.org/community/impact/presentations/>. The Cleanup Team meeting discusses late breaking news and responses to action items, as well as updates from the IAGWSP and the Installation Restoration Program (IRP). The JBCCCT meetings provide a forum for community input regarding issues related to both the IRP and the IAGWSP.

3. SUMMARY OF DATA RECEIVED

Table 1 summarizes sampling for all media from 01 to 30 November 2025. Table 2 summarizes the validated detections of explosives compounds and perchlorate for all groundwater results received from 01 to 30 November 2025. These results are compared to the Maximum Contaminant Levels/Health Advisory (MCL/HA) values for respective analytes. Explosives and perchlorate are the primary contaminants of concern (COC) at Camp Edwards. No explosives or perchlorate validation was completed during November 2025; therefore, Table 2 is not included. Table 3 summarizes the validated detections of per- and polyfluoroalkyl substances (PFAS) for influent and groundwater results analyzed by EPA draft Method 1633 and received from 01 to 30 November 2025. Table 3 PFAS results are compared to the Regional Screening Levels (RSLs) published by EPA in November 2023.

The operable units (OUs) under investigation and cleanup at Camp Edwards are the Central Impact Area, Demolition Area 1, Demolition Area 2, J-1 Range, J-2 Range, J-3 Range, L Range, and Small Arms Ranges. Environmental monitoring reports for each OU are generated each year to evaluate the current year groundwater results. These reports are available on the site Environmental Data Management System (EDMS) and at the project document repository (IAGWSP office).

4. SUBMITTED DELIVERABLES

Deliverables submitted during the reporting period include the following:

- | | |
|--|------------------|
| • Final J-2 Range Environmental Monitoring Report for November 2023 through October 2024 | 04 November 2025 |
| • Draft J-3 Range Environmental Monitoring Report for September 2023 through August 2024 | 04 November 2025 |
| • Draft L Range Environmental Monitoring Report for March 2024 through February 2025 | 06 November 2025 |

5. SCHEDULED ACTIONS

The following actions and/or documents are being prepared in December 2025.

- Response to Comments on the Draft J-3 Range EMR for September 2023 through August 2024
- Response to Comments on the Draft L Range EMR for March 2024 through February 2025
- Draft J-1 Range South EMR for January 2024 through December 2024
- Draft J-1 Range Northern EMR for January 2024 through December 2024
- Response to Comments on the IAGWSP Comprehensive PFAS Report
- Demolition Area 2 Demonstration of Compliance
- Site-Wide QAPP Update
- Draft CIA Environmental Monitoring Report for July 2024 through June 2025
- Draft Demolition Area 1 Environmental Monitoring Report for July 2024 through June 2025
- Draft Demolition Area 2 Demonstration of Compliance
- Northwest Corner Demonstration of Compliance Response to Comments
- Small Arms Ranges Project Note for Site Closure

TABLE 1
Sampling Progress: November 2025

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
J1 Range Northern	MW-349M2	MW-349M2_F25	N	11/18/2025	Ground Water	194.90	204.90
J1 Range Northern	MW-349M1	MW-349M1_F25	N	11/18/2025	Ground Water	228.60	238.60
J1 Range Northern	MW-349M1	MW-349M1_F25D	FD	11/18/2025	Ground Water	228.60	238.60
J1 Range Northern	MW-245M2	MW-245M2_F25	N	11/18/2025	Ground Water	204.00	214.00
J1 Range Northern	MW-245M2	MW-245M2_F25D	FD	11/18/2025	Ground Water	204.00	214.00
J1 Range Northern	MW-245M1	MW-245M1_F25	N	11/18/2025	Ground Water	244.00	254.00
J1 Range Northern	MW-369M1	MW-369M1_F25	N	11/17/2025	Ground Water	254.07	264.07
J1 Range Northern	MW-306M2	MW-306M2_F25	N	11/17/2025	Ground Water	164.69	174.69
J1 Range Northern	MW-306D	MW-306D_F25	N	11/17/2025	Ground Water	291.66	301.66
J1 Range Northern	MW-187M1	MW-187M1_F25	N	11/17/2025	Ground Water	160.00	170.00
J1 Range Northern	MW-187D	MW-187D_F25	N	11/17/2025	Ground Water	306.00	316.00
J1 Range Northern	MW-346M4	MW-346M4_F25	N	11/13/2025	Ground Water	140.00	150.00
J1 Range Northern	MW-346M3	MW-346M3_F25	N	11/13/2025	Ground Water	175.30	185.30
J1 Range Northern	MW-346M2	MW-346M2_F25	N	11/13/2025	Ground Water	205.30	215.30
J1 Range Northern	MW-346M1	MW-346M1_F25	N	11/13/2025	Ground Water	244.70	254.70
J1 Range Northern	MW-346M1	MW-346M1_F25D	FD	11/13/2025	Ground Water	244.70	254.70
J1 Range Northern	MW-566M1	MW-566M1_F25	N	11/12/2025	Ground Water	232.00	242.00
J1 Range Northern	MW-689M2	MW-689M2_F25	N	11/12/2025	Ground Water	231.40	241.40
J1 Range Northern	MW-689M1	MW-689M1_F25	N	11/12/2025	Ground Water	253.50	263.50
J1 Range Northern	MW-688M2	MW-688M2_F25	MS	11/12/2025	Ground Water	227.80	237.80
J1 Range Northern	MW-688M2	MW-688M2_F25	N	11/12/2025	Ground Water	227.80	237.80
J1 Range Northern	MW-688M2	MW-688M2_F25	SD	11/12/2025	Ground Water	227.80	237.80
J1 Range Northern	MW-688M1	MW-688M1_F25	N	11/12/2025	Ground Water	255.20	265.20
J1 Range Northern	MW-430M2	MW-430M2_F25	N	11/10/2025	Ground Water	188.41	198.41
J1 Range Northern	MW-541M1	MW-541M1_F25	N	11/10/2025	Ground Water	210.00	220.00
J1 Range Northern	MW-540M1	MW-540M1_F25	N	11/10/2025	Ground Water	258.00	268.00
J1 Range Northern	J1N-INF1B	J1N-INF1B_F25	N	11/10/2025	Process Water	0.00	0.00
J1 Range Northern	J1N-INF1A	J1N-INF1A_F25	N	11/10/2025	Process Water	0.00	0.00

N = Normal Sample
FD = Field Duplicate

TABLE 1
Sampling Progress: November 2025

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
J1 Range Northern	MW-563M1	MW-563M1_F25	N	11/06/2025	Ground Water	215.00	225.00
J2 Range Eastern	J2E-EFF-J	J2E-EFF-J-206A	N	11/06/2025	Process Water	0.00	0.00
J2 Range Eastern	J2E-MID-2J	J2E-MID-2J-206A	N	11/06/2025	Process Water	0.00	0.00
J1 Range Northern	MW-564M1	MW-564M1_F25	N	11/06/2025	Ground Water	227.00	237.00
J1 Range Northern	MW-564M1	MW-564M1_F25D	FD	11/06/2025	Ground Water	227.00	237.00
J2 Range Eastern	J2E-MID-1J	J2E-MID-1J-206A	N	11/06/2025	Process Water	0.00	0.00
J2 Range Eastern	J2E-INF-J	J2E-INF-J-206A	N	11/06/2025	Process Water	0.00	0.00
J2 Range Eastern	J2E-MID-2H	J2E-MID-2H-206A	N	11/06/2025	Process Water	0.00	0.00
J2 Range Eastern	J2E-MID-1H	J2E-MID-1H-206A	N	11/06/2025	Process Water	0.00	0.00
J1 Range Northern	MW-549M2	MW-549M2_F25	N	11/06/2025	Ground Water	187.30	197.30
J2 Range Eastern	J2E-EFF-IH	J2E-EFF-IH-206A	N	11/06/2025	Process Water	0.00	0.00
J2 Range Eastern	J2E-MID-2I	J2E-MID-2I-206A	N	11/06/2025	Process Water	0.00	0.00
J2 Range Eastern	J2E-MID-1I	J2E-MID-1I-206A	N	11/06/2025	Process Water	0.00	0.00
J2 Range Eastern	J2E-INF-I	J2E-INF-I-206A	N	11/06/2025	Process Water	0.00	0.00
J1 Range Northern	MW-549M1	MW-549M1_F25	N	11/06/2025	Ground Water	227.40	237.40
J1 Range Northern	MW-567M1	MW-567M1_F25	N	11/05/2025	Ground Water	215.50	225.50
J1 Range Northern	MW-605M2	MW-605M2_F25	N	11/05/2025	Ground Water	182.20	192.20
J1 Range Southern	J1S-EFF	J1S-EFF-216A	N	11/05/2025	Process Water	0.00	0.00
J1 Range Southern	J1S-MID	J1S-MID-216A	N	11/05/2025	Process Water	0.00	0.00
J1 Range Southern	J1S-INF-2	J1S-INF-2-216A	N	11/05/2025	Process Water	0.00	0.00
J1 Range Northern	MW-605M1	MW-605M1_F25	N	11/05/2025	Ground Water	220.20	230.20
J3 Range	J3-EFF	J3-EFF-230A	N	11/05/2025	Process Water	0.00	0.00
J3 Range	J3-MID-2	J3-MID-2-230A	N	11/05/2025	Process Water	0.00	0.00
J3 Range	J3-MID-1	J3-MID-1-230A	N	11/05/2025	Process Water	0.00	0.00
J3 Range	J3-INF	J3-INF-230A	N	11/05/2025	Process Water	0.00	0.00
J1 Range Northern	MW-370M2	MW-370M2_F25	N	11/05/2025	Ground Water	215.54	225.54
Demolition Area 1	D1-EFF	D1-EFF-184A	N	11/05/2025	Process Water	0.00	0.00
J1 Range Northern	MW-370M1	MW-370M1_F25	N	11/05/2025	Ground Water	245.62	255.62

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TABLE 1
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Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
Demolition Area 1	D1-MID-2	D1-MID-2-184A	N	11/05/2025	Process Water	0.00	0.00
Demolition Area 1	D1-MID-1	D1-MID-1-184A	N	11/05/2025	Process Water	0.00	0.00
Demolition Area 1	D1-INF	D1-INF-184A	N	11/05/2025	Process Water	0.00	0.00
J1 Range Northern	MW-220M1	MW-220M1_F25	MS	11/04/2025	Ground Water	248.00	258.00
J1 Range Northern	MW-220M1	MW-220M1_F25	N	11/04/2025	Ground Water	248.00	258.00
J1 Range Northern	MW-220M1	MW-220M1_F25	SD	11/04/2025	Ground Water	248.00	258.00
J1 Range Northern	MW-253M1	MW-253M1_F25	N	11/04/2025	Ground Water	265.40	275.40
J1 Range Northern	MW-286M2	MW-286M2_F25	N	11/04/2025	Ground Water	205.00	215.00
Central Impact Area	CIA3-EFF	CIA3-EFF-113A	N	11/04/2025	Process Water	0.00	0.00
Central Impact Area	CIA3-MID2	CIA3-MID2-113A	N	11/04/2025	Process Water	0.00	0.00
Central Impact Area	CIA3-MID1	CIA3-MID1-113A	N	11/04/2025	Process Water	0.00	0.00
Central Impact Area	CIA3-INF	CIA3-INF-113A	N	11/04/2025	Process Water	0.00	0.00
J1 Range Northern	MW-286M1	MW-286M1_F25	N	11/04/2025	Ground Water	259.00	269.00
J1 Range Northern	MW-315M2	MW-315M2_F25	N	11/03/2025	Ground Water	195.72	205.72
J1 Range Northern	MW-315M1	MW-315M1_F25	N	11/03/2025	Ground Water	245.49	255.49
J2 Range Northern	J2N-EFF-G	J2N-EFF-G-230A	N	11/03/2025	Process Water	0.00	0.00
J2 Range Northern	J2N-MID-1G	J2N-MID-1G-230A	N	11/03/2025	Process Water	0.00	0.00
J2 Range Northern	J2N-INF-G	J2N-INF-G-230A	N	11/03/2025	Process Water	0.00	0.00
J2 Range Northern	J2N-MID-2F	J2N-MID-2F-230A	N	11/03/2025	Process Water	0.00	0.00
J2 Range Northern	J2N-MID-1F	J2N-MID-1F-230A	N	11/03/2025	Process Water	0.00	0.00
J2 Range Northern	J2N-EFF-EF	J2N-EFF-EF-230A	N	11/03/2025	Process Water	0.00	0.00
J2 Range Northern	J2N-MID-2E	J2N-MID-2E-230A	N	11/03/2025	Process Water	0.00	0.00
J2 Range Northern	J2N-MID-1E	J2N-MID-1E-230A	N	11/03/2025	Process Water	0.00	0.00
J2 Range Northern	J2N-INF-EF	J2N-INF-EF-230A	N	11/03/2025	Process Water	0.00	0.00
J1 Range Northern	MW-265M3	MW-265M3_F25	N	11/03/2025	Ground Water	200.00	210.00
J1 Range Northern	J1N-EFF	J1N-EFF-145A	N	11/03/2025	Process Water	0.00	0.00
J1 Range Northern	J1N-MID2	J1N-MID2-145A	N	11/03/2025	Process Water	0.00	0.00
J1 Range Northern	J1N-MID1	J1N-MID1-145A	N	11/03/2025	Process Water	0.00	0.00

N = Normal Sample
FD = Field Duplicate

TABLE 1
Sampling Progress: November 2025

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
J1 Range Northern	J1N-INF2	J1N-INF2-145A	N	11/03/2025	Process Water	0.00	0.00
J1 Range Northern	MW-265M2	MW-265M2_F25	N	11/03/2025	Ground Water	225.00	235.00
J1 Range Northern	MW-265M1	MW-265M1_F25	N	11/03/2025	Ground Water	265.00	275.00

N = Normal Sample
FD = Field Duplicate

TABLE 3
VALIDATED PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) RESULTS
Data Received November 2025

Area of Concern	Location ID	Field Sample ID	Top Depth (ft bgs)	Bottom Depth (ft bgs)	Date Sampled	Test Method	Analyte	Result Value	Qualifier	Units	MCL/HA	> MCL/HA	MDL	RL
J3 Range	J3-INF	J3-INF_OCT25	0.00	0.00	10/09/2025	E1633	Perfluorohexanesulfonic acid (PFHxS)	1.3	J	ng/L	20.0		0.42	1.7
J3 Range	J3-INF	J3-INF_OCT25	0.00	0.00	10/09/2025	E1633	Perfluorooctanesulfonic acid (PFOS)	0.63	J	ng/L	4.0		0.42	1.7
J2 Range Northern	J2N-EFF-F	J2N-EFF-F_OCT25	0.00	0.00	10/09/2025	E1633	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	13.0		ng/L			0.87	3.5
J2 Range Northern	J2N-EFF-F	J2N-EFF-F_OCT25	0.00	0.00	10/09/2025	E1633	Perfluoroheptanoic acid (PFHpA)	0.66	J	ng/L	20.0		0.44	1.7
J2 Range Northern	J2N-EFF-F	J2N-EFF-F_OCT25	0.00	0.00	10/09/2025	E1633	Perfluorohexanoic acid (PFHxA)	0.78	J	ng/L	990		0.44	1.7
J2 Range Northern	J2N-EFF-F	J2N-EFF-F_OCT25	0.00	0.00	10/09/2025	E1633	Perfluorooctanoic acid (PFOA)	2.7		ng/L	6.0		0.44	1.7
J2 Range Northern	J2N-EFF-F	J2N-EFF-F_OCT25	0.00	0.00	10/09/2025	E1633	Perfluoropentanoic acid (PFPeA)	0.76	J	ng/L			0.44	1.7
J2 Range Northern	J2N-INF-F	J2N-INF-F_OCT25D	0.00	0.00	10/09/2025	E1633	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	13.0		ng/L			0.82	3.3
J2 Range Northern	J2N-INF-F	J2N-INF-F_OCT25D	0.00	0.00	10/09/2025	E1633	Perfluoroheptanesulfonic acid (PFHpS)	0.78	J	ng/L			0.41	1.6
J2 Range Northern	J2N-INF-F	J2N-INF-F_OCT25D	0.00	0.00	10/09/2025	E1633	Perfluoroheptanoic acid (PFHpA)	0.44	J	ng/L	20.0		0.41	1.6
J2 Range Northern	J2N-INF-F	J2N-INF-F_OCT25D	0.00	0.00	10/09/2025	E1633	Perfluorohexanesulfonic acid (PFHxS)	5.7		ng/L	20.0		0.41	1.6
J2 Range Northern	J2N-INF-F	J2N-INF-F_OCT25D	0.00	0.00	10/09/2025	E1633	Perfluorohexanoic acid (PFHxA)	0.56	J	ng/L	990		0.41	1.6
J2 Range Northern	J2N-INF-F	J2N-INF-F_OCT25D	0.00	0.00	10/09/2025	E1633	Perfluorooctanesulfonic acid (PFOS)	10.0		ng/L	4.0	X	0.41	1.6
J2 Range Northern	J2N-INF-F	J2N-INF-F_OCT25D	0.00	0.00	10/09/2025	E1633	Perfluorooctanoic acid (PFOA)	3.3		ng/L	6.0		0.41	1.6
J2 Range Northern	J2N-INF-F	J2N-INF-F_OCT25D	0.00	0.00	10/09/2025	E1633	Perfluoropentanoic acid (PFPeA)	0.79	J	ng/L			0.41	1.6
J2 Range Northern	J2N-INF-F	J2N-INF-F_OCT25	0.00	0.00	10/09/2025	E1633	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	12.0		ng/L			0.81	3.2
J2 Range Northern	J2N-INF-F	J2N-INF-F_OCT25	0.00	0.00	10/09/2025	E1633	Perfluoroheptanesulfonic acid (PFHpS)	0.77	J	ng/L			0.40	1.6
J2 Range Northern	J2N-INF-F	J2N-INF-F_OCT25	0.00	0.00	10/09/2025	E1633	Perfluoroheptanoic acid (PFHpA)	0.45	J	ng/L	20.0		0.40	1.6
J2 Range Northern	J2N-INF-F	J2N-INF-F_OCT25	0.00	0.00	10/09/2025	E1633	Perfluorohexanesulfonic acid (PFHxS)	6.0		ng/L	20.0		0.40	1.6
J2 Range Northern	J2N-INF-F	J2N-INF-F_OCT25	0.00	0.00	10/09/2025	E1633	Perfluorohexanoic acid (PFHxA)	0.58	J	ng/L	990		0.40	1.6
J2 Range Northern	J2N-INF-F	J2N-INF-F_OCT25	0.00	0.00	10/09/2025	E1633	Perfluorooctanesulfonic acid (PFOS)	9.8		ng/L	4.0	X	0.40	1.6
J2 Range Northern	J2N-INF-F	J2N-INF-F_OCT25	0.00	0.00	10/09/2025	E1633	Perfluorooctanoic acid (PFOA)	3.3		ng/L	6.0		0.40	1.6
J2 Range Northern	J2N-INF-F	J2N-INF-F_OCT25	0.00	0.00	10/09/2025	E1633	Perfluoropentanoic acid (PFPeA)	0.81	J	ng/L			0.40	1.6
J2 Range Northern	J2EW0002	J2EW0002_FALL25	198.00	233.00	09/24/2025	E1633	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	16.0		ng/L			0.89	3.5
J2 Range Northern	J2EW0002	J2EW0002_FALL25	198.00	233.00	09/24/2025	E1633	Perfluoroheptanesulfonic acid (PFHpS)	1.1	J	ng/L			0.44	1.8
J2 Range Northern	J2EW0002	J2EW0002_FALL25	198.00	233.00	09/24/2025	E1633	Perfluorohexanesulfonic acid (PFHxS)	7.1		ng/L	20.0		0.44	1.8
J2 Range Northern	J2EW0002	J2EW0002_FALL25	198.00	233.00	09/24/2025	E1633	Perfluorohexanoic acid (PFHxA)	0.83	J	ng/L	990		0.44	1.8
J2 Range Northern	J2EW0002	J2EW0002_FALL25	198.00	233.00	09/24/2025	E1633	Perfluorooctanesulfonic acid (PFOS)	13.0		ng/L	4.0	X	0.44	1.8

J = Estimated Result
MDL = Method Detection Limit
RL = Reporting Limit
ND = Non-Detect

MCL/HA= Either the MCL or Lowest Health Advisory Limit

TABLE 3
VALIDATED PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) RESULTS
Data Received November 2025

Area of Concern	Location ID	Field Sample ID	Top Depth (ft bgs)	Bottom Depth (ft bgs)	Date Sampled	Test Method	Analyte	Result Value	Qualifier	Units	MCL/HA	> MCL/HA	MDL	RL
J2 Range Northern	J2EW0002	J2EW0002_FALL25	198.00	233.00	09/24/2025	E1633	Perfluorooctanoic acid (PFOA)	3.9		ng/L	6.0		0.44	1.8
J2 Range Northern	J2EW0002	J2EW0002_FALL25	198.00	233.00	09/24/2025	E1633	Perfluoropentanoic acid (PFPeA)	0.85	J	ng/L			0.44	1.8
J2 Range Northern	MW-345M2	MW-345M2_FALL25	236.62	246.62	09/23/2025	E1633	Perfluorodecanoic acid (PFDA)	0.86	J	ng/L	20.0		0.43	1.7
J2 Range Northern	MW-345M2	MW-345M2_FALL25	236.62	246.62	09/23/2025	E1633	Perfluorononanoic acid (PFNA)	1.8		ng/L	5.9		0.43	1.7
J2 Range Northern	MW-345M2	MW-345M2_FALL25	236.62	246.62	09/23/2025	E1633	Perfluoroundecanoic acid (PFUnA)	2.3		ng/L	600		0.43	1.7
J2 Range Northern	MW-345M1	MW-345M1_FALL25	311.50	321.50	09/23/2025	E1633	Perfluoropropanoic acid (PFPrA)	8.1	J	ng/L			2.2	8.9
J2 Range Northern	MW-345M1	MW-345M1_FALL25	311.50	321.50	09/23/2025	E1633	Perfluorodecanoic acid (PFDA)	1.4	J	ng/L	20.0		0.45	1.8
J2 Range Northern	MW-345M1	MW-345M1_FALL25	311.50	321.50	09/23/2025	E1633	Perfluorododecanoic acid (PFDoA)	0.54	J	ng/L	100		0.49	1.8
J2 Range Northern	MW-345M1	MW-345M1_FALL25	311.50	321.50	09/23/2025	E1633	Perfluorononanoic acid (PFNA)	4.4		ng/L	5.9		0.45	1.8
J2 Range Northern	MW-345M1	MW-345M1_FALL25	311.50	321.50	09/23/2025	E1633	Perfluoroundecanoic acid (PFUnA)	5.2		ng/L	600		0.45	1.8
J2 Range Northern	MW-05D	MW-05D_FALL25	335.00	340.00	09/23/2025	E1633	Perfluorooctanesulfonamide (PFOSA)	0.54	J	ng/L			0.42	1.7
J2 Range Northern	MW-05D	MW-05D_FALL25	335.00	340.00	09/23/2025	E1633	Perfluorooctanesulfonic acid (PFOS)	4.3		ng/L	4.0	X	0.42	1.7
J2 Range Northern	MW-05D	MW-05D_FALL25	335.00	340.00	09/23/2025	E1633	Perfluorooctanoic acid (PFOA)	1.6	J	ng/L	6.0		0.42	1.7
J2 Range Northern	MW-293M1	MW-293M1_FALL25	296.26	306.27	09/23/2025	E1633	Perfluorodecanoic acid (PFDA)	2.3		ng/L	20.0		0.40	1.6
J2 Range Northern	MW-293M1	MW-293M1_FALL25	296.26	306.27	09/23/2025	E1633	Perfluorododecanoic acid (PFDoA)	0.80	J	ng/L	100		0.45	1.6
J2 Range Northern	MW-293M1	MW-293M1_FALL25	296.26	306.27	09/23/2025	E1633	Perfluorononanoic acid (PFNA)	0.75	J	ng/L	5.9		0.40	1.6
J2 Range Northern	MW-293M1	MW-293M1_FALL25	296.26	306.27	09/23/2025	E1633	Perfluoroundecanoic acid (PFUnA)	9.6		ng/L	600		0.40	1.6
J2 Range Northern	MW-340D	MW-340D_FALL25	329.60	339.60	09/22/2025	E1633	Perfluorobutanesulfonic acid (PFBS)	2.2		ng/L	600		0.45	1.7
J2 Range Northern	MW-340D	MW-340D_FALL25	329.60	339.60	09/22/2025	E1633	Perfluorobutanoic acid (PFBA)	1.2	J	ng/L	1800		0.84	3.3
J2 Range Northern	MW-340D	MW-340D_FALL25	329.60	339.60	09/22/2025	E1633	Perfluoroheptanoic acid (PFHpA)	0.46	J	ng/L	20.0		0.42	1.7
J2 Range Northern	MW-340D	MW-340D_FALL25	329.60	339.60	09/22/2025	E1633	Perfluorohexanesulfonic acid (PFHxS)	1.0	J	ng/L	20.0		0.42	1.7
J2 Range Northern	MW-340D	MW-340D_FALL25	329.60	339.60	09/22/2025	E1633	Perfluorohexanoic acid (PFHxA)	2.0		ng/L	990		0.42	1.7
J2 Range Northern	MW-340D	MW-340D_FALL25	329.60	339.60	09/22/2025	E1633	Perfluorooctanesulfonic acid (PFOS)	0.51	J	ng/L	4.0		0.42	1.7
J2 Range Northern	MW-340D	MW-340D_FALL25	329.60	339.60	09/22/2025	E1633	Perfluoropentanesulfonic acid (PFPeS)	0.69	J	ng/L			0.42	1.7
J2 Range Northern	MW-337D	MW-337D_FALL25	310.00	320.00	09/22/2025	E1633	Perfluorodecanoic acid (PFDA)	4.4		ng/L	20.0		0.42	1.7
J2 Range Northern	MW-337D	MW-337D_FALL25	310.00	320.00	09/22/2025	E1633	Perfluorododecanoic acid (PFDoA)	1.6	J	ng/L	100		0.46	1.7
J2 Range Northern	MW-337D	MW-337D_FALL25	310.00	320.00	09/22/2025	E1633	Perfluorononanoic acid (PFNA)	5.4		ng/L	5.9		0.42	1.7
J2 Range Northern	MW-337D	MW-337D_FALL25	310.00	320.00	09/22/2025	E1633	Perfluorotridecanoic acid (PFTrDA)	1.6	J	ng/L			0.48	1.7

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MDL = Method Detection Limit
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MCL/HA= Either the MCL or Lowest Health Advisory Limit

TABLE 3
VALIDATED PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) RESULTS
Data Received November 2025

Area of Concern	Location ID	Field Sample ID	Top Depth (ft bgs)	Bottom Depth (ft bgs)	Date Sampled	Test Method	Analyte	Result Value	Qualifier	Units	MCL/HA	> MCL/HA	MDL	RL
J2 Range Northern	MW-337D	MW-337D_FALL25	310.00	320.00	09/22/2025	E1633	Perfluoroundecanoic acid (PFUnA)	12.0		ng/L	600		0.42	1.7
J2 Range Northern	MW-330M3	MW-330M3_FALL25	154.97	164.99	09/22/2025	E1633	Perfluorobutanoic acid (PFBA)	0.91	J	ng/L	1800		0.81	3.3
J2 Range Northern	MW-330M3	MW-330M3_FALL25	154.97	164.99	09/22/2025	E1633	Perfluorodecanoic acid (PFDA)	3.2		ng/L	20.0		0.41	1.6
J2 Range Northern	MW-330M3	MW-330M3_FALL25	154.97	164.99	09/22/2025	E1633	Perfluorododecanoic acid (PFDoA)	1.6		ng/L	100		0.45	1.6
J2 Range Northern	MW-330M3	MW-330M3_FALL25	154.97	164.99	09/22/2025	E1633	Perfluoroheptanoic acid (PFHpA)	0.60	J	ng/L	20.0		0.41	1.6
J2 Range Northern	MW-330M3	MW-330M3_FALL25	154.97	164.99	09/22/2025	E1633	Perfluorohexanoic acid (PFHxA)	0.50	J	ng/L	990		0.41	1.6
J2 Range Northern	MW-330M3	MW-330M3_FALL25	154.97	164.99	09/22/2025	E1633	Perfluorononanoic acid (PFNA)	2.5		ng/L	5.9		0.41	1.6
J2 Range Northern	MW-330M3	MW-330M3_FALL25	154.97	164.99	09/22/2025	E1633	Perfluorooctanoic acid (PFOA)	0.44	J	ng/L	6.0		0.41	1.6
J2 Range Northern	MW-330M3	MW-330M3_FALL25	154.97	164.99	09/22/2025	E1633	Perfluoropentanoic acid (PFPeA)	1.4	J	ng/L			0.41	1.6
J2 Range Northern	MW-330M3	MW-330M3_FALL25	154.97	164.99	09/22/2025	E1633	Perfluorotridecanoic acid (PFTTrDA)	1.2	J	ng/L			0.47	1.6
J2 Range Northern	MW-330M3	MW-330M3_FALL25	154.97	164.99	09/22/2025	E1633	Perfluoroundecanoic acid (PFUnA)	7.8		ng/L	600		0.41	1.6
J2 Range Northern	MW-330M2	MW-330M2_FALL25	238.01	248.04	09/22/2025	E1633	Perfluorodecanoic acid (PFDA)	1.9		ng/L	20.0		0.45	1.8
J2 Range Northern	MW-330M2	MW-330M2_FALL25	238.01	248.04	09/22/2025	E1633	Perfluorononanoic acid (PFNA)	4.1		ng/L	5.9		0.45	1.8
J2 Range Northern	MW-330M2	MW-330M2_FALL25	238.01	248.04	09/22/2025	E1633	Perfluoroundecanoic acid (PFUnA)	1.3	J	ng/L	600		0.45	1.8
J2 Range Northern	MW-330M1	MW-330M1_FALL25	313.10	323.13	09/22/2025	E1633	Perfluorobutanoic acid (PFBA)	0.90	J	ng/L	1800		0.82	3.3
J2 Range Northern	MW-330M1	MW-330M1_FALL25	313.10	323.13	09/22/2025	E1633	Perfluorododecanoic acid (PFDoA)	0.86	J	ng/L	100		0.45	1.6
J2 Range Northern	MW-330M1	MW-330M1_FALL25	313.10	323.13	09/22/2025	E1633	Perfluoroheptanoic acid (PFHpA)	0.49	J	ng/L	20.0		0.41	1.6
J2 Range Northern	MW-330M1	MW-330M1_FALL25	313.10	323.13	09/22/2025	E1633	Perfluorononanoic acid (PFNA)	0.69	J	ng/L	5.9		0.41	1.6
J2 Range Northern	MW-330M1	MW-330M1_FALL25	313.10	323.13	09/22/2025	E1633	Perfluoropentanoic acid (PFPeA)	1.3	J	ng/L			0.41	1.6
J2 Range Northern	MW-330M1	MW-330M1_FALL25	313.10	323.13	09/22/2025	E1633	Perfluoroundecanoic acid (PFUnA)	2.8		ng/L	600		0.41	1.6
J2 Range Northern	MW-330M1	MW-330M1_FALL25D	313.10	323.13	09/22/2025	E1633	Perfluorodecanoic acid (PFDA)	0.56	J	ng/L	20.0		0.44	1.8
J2 Range Northern	MW-330M1	MW-330M1_FALL25D	313.10	323.13	09/22/2025	E1633	Perfluorododecanoic acid (PFDoA)	0.89	J	ng/L	100		0.48	1.8
J2 Range Northern	MW-330M1	MW-330M1_FALL25D	313.10	323.13	09/22/2025	E1633	Perfluoroheptanoic acid (PFHpA)	0.59	J	ng/L	20.0		0.44	1.8
J2 Range Northern	MW-330M1	MW-330M1_FALL25D	313.10	323.13	09/22/2025	E1633	Perfluorononanoic acid (PFNA)	0.82	J	ng/L	5.9		0.44	1.8
J2 Range Northern	MW-330M1	MW-330M1_FALL25D	313.10	323.13	09/22/2025	E1633	Perfluorooctanoic acid (PFOA)	0.45	J	ng/L	6.0		0.44	1.8
J2 Range Northern	MW-330M1	MW-330M1_FALL25D	313.10	323.13	09/22/2025	E1633	Perfluoropentanoic acid (PFPeA)	1.1	J	ng/L			0.44	1.8
J2 Range Northern	MW-330M1	MW-330M1_FALL25D	313.10	323.13	09/22/2025	E1633	Perfluoroundecanoic acid (PFUnA)	3.5		ng/L	600		0.44	1.8

J = Estimated Result
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MCL/HA= Either the MCL or Lowest Health Advisory Limit