MONTHLY PROGRESS REPORT #313
FOR APRIL 2023

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 28 April 2023.

1. SUMMARY OF REMEDIATION ACTIONS

Remediation Actions (RA) Underway at Camp Edwards as of 28 April 2023:

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, Base Boundary, and the Leading Edge include extraction wells, an ex-situ treatment process to remove explosives compounds and perchlorate from the groundwater, 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. The treatment facility continues to operate at a flow rate of 175 gallons per minute (gpm), with over 3.000 billion gallons of water treated and re-injected as of 28 April 2023. The following Frank Perkins Road Treatment Facility shutdowns occurred in April:

- 2032 on 15 April 2023 due to a power outage and was restarted at 0755 on 19 April 2023.
- 0550 on 23 April 2023 due to a power interruption and was restarted at 0745 on 24 April 2023.
- 0550 on 26 April 2023 due to a power outage and was restarted at 0800 on 28 April 2023.

The Base Boundary Mobile Treatment Unit (MTU) continues to operate at a flow rate of 65 gpm. As of 28 April 2023, over 364.6 million gallons of water were treated and re-injected. No Base Boundary MTU shutdowns occurred in April:

The Leading Edge system continues to operate at a flow rate of 100 gpm. As of 28 April 2023, over 350.2 million gallons of water were treated and re-injected. The following Leading Edge system shutdowns occurred in April:

- 0814 on 11 April 2023 due to a Phase/Voltage Fault caused by a power interruption and was restarted on 1130 on 11 April 2023.

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 Plant

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 an infiltration basin 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 April 2023, over 2.075 billion gallons of water have been treated and re-injected. The following MTU E and F shutdowns occurred in April:

- 0930 on 11 April 2023 to replace the pump and motor at EW0002 and perform a modified well development and was restarted at 1120 on 13 April 2023.

The Northern Treatment Building G continues to operate at a flow rate of 225 gpm. As of 28 April 2023, over 1.589 billion gallons of water have been treated and re-injected. The following Northern MTU G shutdowns occurred in April:

- 1147 on 01 April 2023 due to power interruption and was restarted at 0818 on 03 April 2023.

Eastern Plant

The J-2 Range Eastern Treatment facility consists of removal and treatment of groundwater to minimize downgradient migration of explosives compounds and perchlorate. The ETI system includes the following components: three extraction wells in an axial array, 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 three infiltration trenches located along the lateral boundaries of the plume where treated water enters the vadose zone and infiltrates into the aquifer. The J-2 Range Eastern system is running at a combined total flow rate of 495 gpm.

The MTUs H and I continue to operate at a flow rate of 250 gpm. As of 28 April 2023, over 1.716 billion gallons of water have been treated and re-injected. No MTU H and I shutdowns occurred in April.

MTU J continues to operate at a flow rate of 120 gpm. As of 28 April 2023, over 801.9 million gallons of water have been treated and re-injected. The following MTU J shutdowns occurred in April:

- 0853 on 01 April 2023 due to a power interruption and was restarted at 1024 on 03 April 2023.

MTU K continues to operate at a flow rate of 125 gpm. As of 28 April 2023, over 927.6 million gallons of water have been treated and re-injected. No MTU K shutdowns occurred in April.

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) infiltration gallery to return treated water to the aquifer.

The J-3 system is currently operating at a flow rate of 255 gpm. As of 28 April 2023, over 1.712 billion gallons of water have been treated and re-injected. The following J-3 Range system shutdowns occurred in April:

- 0845 on 01 April 2023 due to a power interruption and was restarted at 0900 on 03 April 2023.
- 0727 on 06 April 2023 possibly due to a power interruption at EW0001 (no alarm) and restarted at 1010 on 06 April 2023.
- 1757 on 11 April 2023 due to 90EW0001 going offline (no alarm) and was restarted at 0958 on 12 April 2023.
- 1030 on 18 April 2023 due to a VFD fault at 90EW0001 and restarted at 1335 on 18 April 2023.
- 1330 on 22 April 2023 due to FS-12 being offline and restarted at 0949 on 24 April 2023.
- 1937 on 26 April 2023 due to a power outage and restarted at 0915 on 27 April 2023.
- 1130 on 27 April 2023 due to a VFD fault at 09EW0001 and restarted at 1350 on 38 April 2023.

J-1 Range Groundwater RA

Southern Plant

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 two extraction wells, an ex-situ treatment process to remove explosives compounds from the groundwater, and an infiltration trench to return treated water to the aquifer.

The Southern MTU continues to operate at a flow rate of 50 gpm since 21 November 2022 (normal flow rate is 125 gpm). As of 28 April 2023, over 758.4 million gallons of water have been treated and re-injected. The following J-1 Range Southern system shutdowns occurred in April:

- 0853 on 01 April 2023 due to a power interruption and was restarted at 1120 on 03 April 2023
- 1440 on 11 April 2023 due to tree removal activities and restarted at 0807 on 13 April 2023

Northern Plant

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 trench to return treated water to the aquifer.

The Northern MTU continues to operate at a total system flow rate of 250 gpm. As of 28 April 2023, over 1.217 billion gallons of water have been treated and re-injected. The following J-1 Range Northern MTU shutdowns occurred in April:

- 0905 on 01 April 2023 due to a power interruption at EW0002 and was restarted at 0801 on 03 April 2023

Central Impact Area RA

The Central Impact Area (CIA) Groundwater treatment facility 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. The CIA systems 1, 2, and 3 continue to run at a combined total flow rate of 750 gpm. As of 28 April 2023, over 3.198 billion gallons of water have been treated and re-injected. The following CIA system shutdowns occurred in April:

- 2032 on 15 April 2023 due to a power outage at CIA-1 and was restarted at 0922 on 19 April 2023.
- 2032 on 15 April 2023 due to a power outage at CIA-2 and was restarted at 0856 on 19 April 2023
- 0531 on 23 April 2023 due to a power interruption at CIA-2 and was restarted at 0820 on 24 April 2023.
- 0550 on 26 April 2023 due to a power outage at CIA-1 and was restarted at 0830 on 27 April 2023.
- 0550 on 26 April 2023 due to a power outage at CIA-2 and was restarted at 0840 on 27 April 2023.

2. SUMMARY OF ACTIONS TAKEN

Operable Unit (OU) Activity as of 28 April 2023:

CIA

- Source Area investigations
    - Demo ops
    - Surface and vegetation clearance at P4A3
    - Intrusive investigations in P4A2 SU 6
    - QC seeding in P4A3
    - QA seeding in P4A3
    - EM61 survey in P4A3
    - Consolidated Shot Structure (CSS) soil removal for liner inspection
    - Routine visual check of CSS cover and surface area around the perimeter of the CSS

Demolition Area 1

- Groundwater sampling within the Demolition Area 1 SPM

Demolition Area 2

- Groundwater sampling within the Demolition Area 2 LTM

J-1 Range
- Bag filters changed at J-1 South Range

J-2 Range
- Drilling and groundwater profile sampling at J-2 Range North
- Groundwater sampling at J-2 Range North PFAS wells
- Bag filters changed at J-2 Range North MTU F

J-3 Range
- Quarterly J-3 Range PFAS sampling

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 16 April 2023

Project and Fieldwork Update

USACE provided the project and fieldwork update starting with an update on the status of the groundwater sampling crews. USACE noted that KGS crews completed the Central Impact Area (CIA) annual sampling on March 29, except for a couple of wells they need to revisit, including one residential well. EPA asked where the residential well was. IAGWSP explained that it was an irrigation well that had been associated with the Northwest Corner Plume but had been transferred to CIA. USACE continued by saying that crews completed a semi-annual sampling of three screens at J-2 North on April 3rd and the PFAS sampling was completed on April 12th. They are beginning Demolition Area 2 sampling today and after that will move to Demolition Area 1 to perform system performance monitoring and hydraulic sampling. The monthly process water samples were collected from the treatment systems April 3rd through April 5th. The J-3 treatment system quarterly PFAS sampling of the influent and effluent is scheduled for today.

The pump and motor are being replaced at J-2 North Extraction Well 2 which should be completed today. USACE referred the group to the weekly update for systems shutdown statistics and noted there weren't any significant shutdowns since the last tech update meeting.

USACE continued with a status of operations and maintenance activities. USACE reminded the group that the J-1 South treatment system continues to run at a reduced flow rate of 50 gallons per minute (gpm). USACE said that they had received a final design for the infiltration gallery but were waiting on a write up from the contractor and then it will be provided to the agencies. EPA said they wanted to clarify that the new trench wouldn't be constructed until the agencies had a chance to comment on the design. USACE replied that they would discuss it with the IAGWSP and noted that work is tentatively scheduled for late mid-May. EPA asked that the design be sent to the agencies as soon as possible.

USACE continued with an update on the drilling activities for the new J-2 North wells. USACE explained that the drilling crew completed drilling at BH-734, on March 21st. They collected 15 profile samples. They completed BH-735 on April 5th and collected 22 samples. They are currently working at BH- 736, which they expect to complete on April 19th. USACE said they are trying to schedule a screen setting call for next week to review the data collected from BH-734. USACE said in advance of the meeting they would distribute the data and a profile log. MassDEP noted that it sounded like two wells currently being installed have gone better than the first location in terms of recharge. USACE replied that it had been going better and the push-ahead method that was discussed at the last meeting seemed to be helping. EPA asked if the profile data would be formatted like it had been in the past for explosives and perchlorate. USACE said they asked for it to be put from the shallowest location to the deepest so you could follow it as a profiled. USACE explained they would also provide a table that was like a boring log. EPA said it would be helpful if the weekly updates could include the number of profiles collected at each boring with depth information.

EPA asked how the decision was made to defer the IAGWSP's presentation at the Joint Base Cape Cod Cleanup Team's meeting. IAGWSP explained that since the meeting was running late and there were two presentations left on the agenda, the decision was made not to rush through it, and it would be better to wait until the next meeting. EPA said it would be good to think about providing data to Mark Forest at the Barnstable County Board of Regional Commissioners before the August meeting. IAGWSP said they planned on reaching out to Mr. Forest to see if he had any questions and to determine the best way to keep him updated as fieldwork progressed. IAGWSP noted that while Mr. Forest mentioned that an invitation had been extended to "base officials" to attend a meeting of the Board, no one on JBCC is aware of a meeting invitation. IAGWSP said they would be following up with Mr. Forest today.

USACE stated that Weston currently is performing both vegetation clearance and surface clearance in the new 15 acres, specifically Phase IV, Area 3. They returned to doing polygon investigation is SU6 which is part of Phase IV, Area 2. They'll be performing these activities for the rest of the month.

<u>Demolition Area 1 Plume Shell Update Presentation: 3D Interpolation</u>

USACE introduced part two of the Demolition Area 1 perchlorate and RDX plume shell development presentations, which is the 3D interpolation phase. USACE began with perchlorate and a summary of the 2D perchlorate data points used in the 3D process. USACE explained

that for the perchlorate 3D plume shell, there 263 points of that, there were 181 data points between the reporting limit of .2 µg/L and the Massachusetts Maximum Contaminant Level (MMCL) of 2 µg/L. There were 82 points that were either equal to, or greater than the MMCL of 2 µg/L. He noted the maximum detection 30.1 µg/L and 72 of the 82 detections were collected less than ten years ago.

USACE displayed a figure showing the data points at 2 µg/L and greater. USACE continued with an overview of the process for the 3D plume shell development. USACE explained that the 2D data points were retained along with control contours (x,y,z,c) and were converted from 2D contours into points and imported into GroundWater Desktop (GWD) Software. There were 263 measured points retained, 8,816 vertices converted to points (0.2, 2, 6, 15 µg/L) and 7,228 points converted from raster tops/bottoms (0 µg/L). The data were then kriged to the Demo 1 MODFLOW grid and search radius and variogram settings were selected and a model versus experimental variogram was computed. The maximum kriged value was 28.36 µg/L and the maximum value in dataset was 30.1 µg/L. USACE explained that the mass of perchlorate > 2 µg/L = 3.78 pounds and the mass ≥ 15 µg/L = 0.6 pounds. He noted that to date, over 120 pounds of perchlorate have been extracted from the aquifer since the start of the rapid response action (RRA)/remedial action (RA) in 2004. USACE said that slide 6 depicts perchlorate data interpolated to the MODFLOW grid and associated contours from 2D interpolation. The interpolation of data was exported from GWD into the flow and transport model. USACE displayed a figure representing the perchlorate interpolated to the MODFLOW grid.

USACE continued with a summary of the 2D RDX data points used in the 3D process. There were 55 points used of which 29 were between the reporting limit of 0.2 µg/L and the risk-based concentration (RBC) of 0.6 µg/L. There were 26 points greater than the RBC and the maximum measured concentration was 2.13µg/L. USACE displayed a figure showing the RDX plumes and data points at 0.6 µg/L and greater along with the simulated capture zone for the wells.

USACE continued with an overview of the process for the RDX 3D plume shell development, which is like what was reviewed for perchlorate. USACE explained that there were 55 measured points retained, 1,820 vertices converted to points (0.2, 2, 0.6, 2 µg/L) and 1,668 points converted from raster tops/bottoms (0 µg/L). The data were then kriged to the Demo 1 MODFLOW grid and search radius and variogram settings were selected and a model versus experimental variogram was computed. The maximum kriged value was 1.57 µg/L and the maximum value in dataset was 2.13 µg/L. USACE explained that the mass of RDX > 0.6 µg/L = 0.12 pounds and the mass ≥ the EPA regional screening level of .97 µg/L = 0.024 pounds. He noted that to date, over 54 pounds of RDX have been extracted from the aquifer since the start of the RRA/RA in 2004. USACE said that slide 10 depicts RDX data interpolated to the MODFLOW grid and associated contours from 2D interpolation. The interpolation of data was exported from GWD into the flow and transport model. USACE displayed a figure representing the perchlorate interpolated to the MODFLOW grid.

USACE continued with a review of updated cleanup timeframes. He explained that there were a couple of different scenarios run at the request of EPA and MassDEP. The base condition, which is existing conditions, base boundary well packering, and a new extraction well operating at 125 gpm at EW-533. The new well scenario takes into consideration the Military Construction (MilCon) process, and therefore would not start up until January of 2029.

The base case for perchlorate shows cleanup to 2 µg/L in 2034, and for RDX to 0.6 µg/L in 2025. The Decision Document (DD) dates are 2025 and 2022, respectively. For the packering option, the cleanup times do not change but capture is expanded. The simulated well along Frederickson Road shows perchlorate cleanup in 2031 and RDX does not change. A figure showing the location of the simulated extraction well. Animations for the base and new well for perchlorate and the base scenario for RDX were shown.

EPA asked how this information would be documented and if it would be part of the annual report or a separate document. USACE replied that there will be a technical memo that will be supportive of the annual report and said he has enough data right now to write up the technical memo. EPA asked if the technical memo could include the information related to MilCon and the projected costs would be to put in EW-533. EPA noted that information would be helpful if the IAGWSP is planning on recommending optimizing at the base boundary and foregoing the additional extraction well and said it would be also good if it could include an explanation of why the MilCon process is five years. USACE said because of the dollar value and the type of work, current program funds cannot be applied to this type of project and the MilCon process for Congressional appropriation would need to be followed.

Action Items

USACE used the new document tracking list to review and discuss deliverables.

JBCC Cleanup Team Meeting

The next JBCC Cleanup Team (JBCCCT) will be held on 09 August 2023 (previous meeting was 12 April 2023). Meeting details and presentation materials 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 28 April 2023. Table 2 summarizes the validated detections of explosives compounds and perchlorate for all groundwater results received from 01 to 28 April 2023. 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. Table 3 summarizes sampling of influent and groundwater samples for per- and polyfluoroalkyl substances (PFAS) from 01 June 2019 to present. Table 3 PFAS results are compared to the new Regional Screening Levels (RSL) published by EPA on 17 May 2022 as well as the EPA Lifetime Health Advisory for PFOS+PFOA and the MassDEP MCL for PFAS6.

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, Northwest Corner, Small Arms Ranges, and Training Areas. 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 repositories (IAGWSP office and Jonathan Bourne Library).

4. SUBMITTED DELIVERABLES

Deliverables submitted during the reporting period include the following:

• Monthly Progress Report No. 312 for March 2023	12 April 2023
• Final L Range Environmental Monitoring Report for March 2022 through February 2023	04 April 2023
• Response to Comments Letter on Draft Technical Memorandum: Small Arms Ranges Environmental Monitoring Work Plan Addendum	04 April 2023
• Final Demolition Area 1 2022 Environmental Monitoring Report	05 April 2023
• Memorandum of Resolution for the Draft Central Impact Area 2022 Environmental Monitoring Report	17 April 2023
• Response to Comments on the Draft Technical Memorandum: Demolition Area 1 Base Boundary Optimization at D1-EW-3	18 April 2023
• Response to Comments of the Draft J-2 Range Eastern Environmental Monitoring Report for November 2021 through October 2022	25 April 2023
• Responses to Comments on the Draft Land Use Controls Monitoring Report, dated February 2023	25 April 2023

5. SCHEDULED ACTIONS

The following actions and/or documents are being prepared in April 2023.

- Memorandum of Resolution on the Draft Small Arms Ranges Environmental Monitoring Work Plan Addendum
- Response to Comments on the Draft Central Impact Area Source 2023 Quality Assurance Project Plan
- Draft J-2 Range Northern 2022 Environmental Monitoring Report
- Memorandum of Resolution on the Demolition Area 1 Base Boundary Optimization at D1-EW-3 Technical Memorandum
- Memorandum of Resolution for the Northwest Corner Demonstration of Compliance Report (*on hold pending resolution of PFAS issues*)
- Response to Comments on the Draft Five Year Review Report

TABLE 1
Sampling Progress: 01 to 30 April 2023

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
J2 Range Northern	BH-737	BH-737-197	N	04/28/2023	Water	197	197
J2 Range Northern	BH-737	BH-737-187	N	04/28/2023	Water	187	187
J2 Range Northern	BH-737	BH-737-187-D	FD	04/28/2023	Water	187	187
Demolition Area 1	MW-698M1	MW-698M1_S23	N	04/28/2023	Ground Water	212.4	222.4
Demolition Area 1	MW-532M2	MW-532M2_S23	N	04/28/2023	Ground Water	138	148
J2 Range Northern	BH-737	BH-737-177	N	04/28/2023	Water	177	177
Demolition Area 1	MW-532M1	MW-532M1_S23	N	04/28/2023	Ground Water	168	178
J2 Range Northern	FIELDQC	BH-FRB04-042823	AB	04/28/2023	Water Quality Control Matrix	0	0
J2 Range Northern	BH-737	BH-737-162-167	N	04/28/2023	Water	162	167
Demolition Area 1	MW-542M1	MW-542M1_S23	N	04/28/2023	Ground Water	144	154
Demolition Area 1	MW-697M1	MW-697M1_S23	N	04/26/2023	Ground Water	243	253
Demolition Area 1	MW-696M1	MW-696M1_S23	N	04/26/2023	Ground Water	175.2	185.2
Demolition Area 1	MW-531M1	MW-531M1_S23	N	04/26/2023	Ground Water	138	148
Demolition Area 1	MW-531M1	MW-531M1_S23D	FD	04/26/2023	Ground Water	138	148
Demolition Area 1	MW-258M3	MW-258M3_S23	N	04/26/2023	Ground Water	77	82
Demolition Area 1	MW-258M2	MW-258M2_S23	N	04/26/2023	Ground Water	87	92
Demolition Area 1	MW-258M1	MW-258M1_S23	N	04/26/2023	Ground Water	109	119
Demolition Area 1	MW-533M1	MW-533M1_S23	N	04/25/2023	Ground Water	160	170
Demolition Area 1	MW-533M1	MW-533M1_S23D	FD	04/25/2023	Ground Water	160	170
J2 Range Northern	BH-736	BH-736-362-367	MS	04/25/2023	Water	362	367
J2 Range Northern	BH-736	BH-736-362-367	N	04/25/2023	Water	362	367
J2 Range Northern	BH-736	BH-736-362-367	SD	04/25/2023	Water	362	367
J2 Range Northern	BH-736	BH-736-352-357	N	04/25/2023	Water	352	357
Demolition Area 1	MW-248M2	MW-248M2_S23	N	04/25/2023	Ground Water	178	188
J2 Range Northern	FIELDQC	BH-736-GAC-EFF-11	FB	04/25/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	BH-736-GAC-MID1-11	FB	04/25/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	BH-736-GAC-EFF-11	FB	04/25/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	BH-736-GAC-MID1-11	FB	04/25/2023	Water Quality Control Matrix	0	0
Demolition Area 1	MW-248M1	MW-248M1_S23	N	04/25/2023	Ground Water	216.3	226.3
Demolition Area 2	MW-311M2	MW-311M2_S23	N	04/24/2023	Ground Water	200	210
J2 Range Northern	BH-736	BH-736-342-347	N	04/20/2023	Water	342	347
J2 Range Northern	BH-736	BH-736-332-337	N	04/20/2023	Water	332	337
J2 Range Northern	BH-736	BH-736-322-327	N	04/19/2023	Water	322	327
J2 Range Northern	FIELDQC	BH-736-GAC-EFF-10	FB	04/19/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	BH-736-GAC-EFF-10	FB	04/19/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	BH-736-GAC-MID1-10	FB	04/19/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	BH-736-GAC-MID1-10	FB	04/19/2023	Water Quality Control Matrix	0	0
J2 Range Northern	BH-736	BH-736-312-317	N	04/19/2023	Water	312	317
J2 Range Northern	BH-736	BH-736-302-307	N	04/19/2023	Water	302	307
Demolition Area 2	MW-161S	MW-161S_S23	N	04/19/2023	Ground Water	145.5	155.5
Demolition Area 2	MW-161S	MW-161S_S23D	FD	04/19/2023	Ground Water	145.5	155.5
Demolition Area 2	MW-404M2	MW-404M2_S23	N	04/19/2023	Ground Water	200.04	210.04
J2 Range Northern	BH-736	BH-736-292-297	N	04/19/2023	Water	292	297
J2 Range Northern	BH-736	BH-736-292-297-D	FD	04/19/2023	Water	292	297
Demolition Area 2	MW-404M1	MW-404M1_S23	N	04/19/2023	Ground Water	219.48	229.48
J2 Range Northern	BH-736	BH-736-282-287	N	04/18/2023	Water	282	287
J2 Range Northern	FIELDQC	BH-736-GAC-EFF-09	FB	04/18/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	BH-736-GAC-EFF-09	FB	04/18/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	BH-736-GAC-MID1-09	FB	04/18/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	BH-736-GAC-MID1-09	FB	04/18/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	J2N-G-EFF-041823	FB	04/18/2023	Water Quality Control Matrix	0	0
J2 Range Northern	BH-736	BH-736-272-277	N	04/18/2023	Water	272	277
Demolition Area 2	MW-160S	MW-160S_S23	N	04/18/2023	Ground Water	137.5	147.5

N = Normal Sample
FD = Field Duplicate

TABLE 1
Sampling Progress: 01 to 30 April 2023

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
J2 Range Northern	BH-736	BH-736-262-267	N	04/18/2023	Water	262	267
Demolition Area 2	MW-380M2	MW-380M2_S23	N	04/18/2023	Ground Water	205.66	215.66
Demolition Area 2	MW-380M1	MW-380M1_S23	N	04/18/2023	Ground Water	226.55	236.55
J2 Range Northern	BH-736	BH-736-252-257	N	04/18/2023	Water	252	257
J2 Range Northern	FIELDQC	BH-736-EB01-P-041823	EB	04/18/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	BH-736-EB01-S-041823	EB	04/18/2023	Water Quality Control Matrix	0	0
J2 Range Northern	BH-736	BH-736-242-247	N	04/17/2023	Water	242	247
J2 Range Northern	FIELDQC	BH-736-GAC-EFF-08	FB	04/17/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	BH-736-GAC-EFF-08	FB	04/17/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	BH-736-GAC-MID1-08	FB	04/17/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	BH-736-GAC-MID1-08	FB	04/17/2023	Water Quality Control Matrix	0	0
Demolition Area 2	MW-259M1	MW-259M1_S23	N	04/17/2023	Ground Water	189	199
Demolition Area 2	MW-406M2	MW-406M2_S23	N	04/17/2023	Ground Water	202.54	212.54
Demolition Area 2	MW-406M1	MW-406M1_S23	N	04/17/2023	Ground Water	224.72	229.72
Demolition Area 2	MW-573M2	MW-573M2_S23	N	04/17/2023	Ground Water	155.4	165.4
Demolition Area 2	MW-573M2	MW-573M2_S23D	FD	04/17/2023	Ground Water	155.4	165.4
Demolition Area 2	MW-573M1	MW-573M1_S23	N	04/17/2023	Ground Water	176.4	186.4
J2 Range Northern	BH-736	BH-736-232-237	N	04/14/2023	Water	232	237
J2 Range Northern	BH-736	BH-736-222-227	N	04/14/2023	Water	222	227
J2 Range Northern	BH-736	BH-736-212-217	N	04/13/2023	Water	212	217
Demolition Area 2	MW-572M1	MW-572M1_S23	N	04/13/2023	Ground Water	164.9	174.9
J2 Range Northern	BH-736	BH-736-202-207	N	04/13/2023	Water	202	207
J2 Range Northern	FIELDQC	BH-736-GAC-EFF-07	FB	04/13/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	BH-736-GAC-EFF-07	FB	04/13/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	BH-736-GAC-MID1-07	FB	04/13/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	BH-736-GAC-MID1-07	FB	04/13/2023	Water Quality Control Matrix	0	0
Demolition Area 2	MW-435M2	MW-435M2_S23	MS	04/13/2023	Ground Water	149.57	159.93
Demolition Area 2	MW-435M2	MW-435M2_S23	N	04/13/2023	Ground Water	149.57	159.93
Demolition Area 2	MW-435M2	MW-435M2_S23	SD	04/13/2023	Ground Water	149.57	159.93
Demolition Area 2	MW-435M1	MW-435M1_S23	N	04/13/2023	Ground Water	169.94	179.95
J2 Range Northern	FIELDQC	BH-736-EB01-MP-041323	EB	04/13/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	BH-736-EB01-PA-041323	EB	04/13/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	FRB_J3_041323	AB	04/13/2023	Water Quality Control Matrix	0	0
J3 Range	J3-EFF	J3-EFF_2Q23	N	04/13/2023	Process Water	0	0
J3 Range	J3-INF	J3-INF_2Q23	N	04/13/2023	Process Water	0	0
J2 Range Northern	MW-318M1	MW-318M1_P23	N	04/12/2023	Ground Water	305.79	315.81
J2 Range Northern	BH-736	BH-736-197	N	04/12/2023	Water	197	197
J2 Range Northern	BH-736	BH-736-197-D	FD	04/12/2023	Water	197	197
J2 Range Northern	MW-330M3	MW-330M3_P23	N	04/12/2023	Ground Water	154.97	164.99
J2 Range Northern	MW-330M2	MW-330M2_P23	N	04/12/2023	Ground Water	238.01	248.04
J2 Range Northern	FIELDQC	BH-FRB03-041223	AB	04/12/2023	Water Quality Control Matrix	0	0
J2 Range Northern	BH-736	BH-736-187	N	04/12/2023	Water	187	187
J2 Range Northern	MW-330M1	MW-330M1_P23	N	04/12/2023	Ground Water	313.1	323.13
J2 Range Northern	MW-293M1	MW-293M1_P23	N	04/11/2023	Ground Water	296.26	306.27
J2 Range Northern	MW-302M2	MW-302M2_P23	N	04/11/2023	Ground Water	194.35	204.43
J2 Range Northern	FIELDQC	FRB_J2N_041123	AB	04/11/2023	Water Quality Control Matrix	0	0
J2 Range Northern	MW-337M1	MW-337M1_P23	N	04/11/2023	Ground Water	243.71	253.71
J2 Range Northern	MW-337D	MW-337D_P23	N	04/11/2023	Ground Water	310	320
J2 Range Northern	MW-337D	MW-337D_P23D	FD	04/11/2023	Ground Water	310	320
Central Impact Area	MW-05S	MW-05S_P23	N	04/10/2023	Ground Water	119	129
J2 Range Northern	MW-05S	MW-05S_P23	N	04/10/2023	Ground Water	119	129
Central Impact Area	MW-05M2	MW-05M2_P23	N	04/10/2023	Ground Water	170	175

N = Normal Sample
FD = Field Duplicate

TABLE 1
Sampling Progress: 01 to 30 April 2023

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
J2 Range Northern	MW-05M2	MW-05M2_P23	N	04/10/2023	Ground Water	170	175
Central Impact Area	MW-05M1	MW-05M1_P23	N	04/10/2023	Ground Water	210	215
J2 Range Northern	MW-05M1	MW-05M1_P23	N	04/10/2023	Ground Water	210	215
Central Impact Area	MW-05D	MW-05D_P23	N	04/10/2023	Ground Water	335	340
J2 Range Northern	MW-05D	MW-05D_P23	N	04/10/2023	Ground Water	335	340
J1 Range Southern	J1S-EFF	J1S-EFF-185A	N	04/06/2023	Process Water	0	0
J1 Range Southern	J1S-MID	J1S-MID-185A	N	04/06/2023	Process Water	0	0
J1 Range Southern	J1S-INF-2	J1S-INF-2-185A	N	04/06/2023	Process Water	0	0
J2 Range Northern	J2N-EFF-G	J2N-EFF-G-199A	N	04/06/2023	Process Water	0	0
J2 Range Northern	J2N-MID-2G	J2N-MID-2G-199A	N	04/06/2023	Process Water	0	0
J2 Range Northern	J2N-MID-1G	J2N-MID-1G-199A	N	04/06/2023	Process Water	0	0
J2 Range Northern	MW-519M1	MW-519M1_P23	N	04/06/2023	Ground Water	198	208
J2 Range Northern	J2N-INF-G	J2N-INF-G-199A	N	04/06/2023	Process Water	0	0
J2 Range Northern	J2N-EFF-EF	J2N-EFF-EF-199A	N	04/06/2023	Process Water	0	0
J2 Range Northern	J2N-MID-2F	J2N-MID-2F-199A	N	04/06/2023	Process Water	0	0
J2 Range Northern	J2N-EFF-F	J2N-EFF-F_P23	N	04/06/2023	Process Water	0	0
J2 Range Northern	J2N-MID-1F	J2N-MID-1F-199A	N	04/06/2023	Process Water	0	0
J2 Range Northern	J2N-INF-EF	J2N-INF-EF-199A	N	04/06/2023	Process Water	0	0
J2 Range Northern	J2N-INF-F	J2N-INF-F_P23	N	04/06/2023	Process Water	0	0
J2 Range Northern	J2N-MID-2E	J2N-MID-2E-199A	N	04/06/2023	Process Water	0	0
J2 Range Northern	J2N-MID-1E	J2N-MID-1E-199A	N	04/06/2023	Process Water	0	0
J2 Range Northern	FIELDQC	FRB_J2N_040623	AB	04/06/2023	Water Quality Control Matrix	0	0
J2 Range Northern	WS-2DS	WS-2DS_P23	N	04/06/2023	Ground Water	187.4	197.4
J1 Range Northern	J1N-EFF	J1N-EFF-114A	N	04/06/2023	Process Water	0	0
J1 Range Northern	J1N-MID2	J1N-MID2-114A	N	04/06/2023	Process Water	0	0
J1 Range Northern	J1N-MID1	J1N-MID1-114A	N	04/06/2023	Process Water	0	0
J1 Range Northern	J1N-INF2	J1N-INF2-114A	N	04/06/2023	Process Water	0	0
J2 Range Northern	FIELDQC	BH-735-EB01-MP-040623	EB	04/06/2023	Water Quality Control Matrix	0	0
J2 Range Northern	WS-2CS	WS-2CS_P23	N	04/05/2023	Ground Water	187	197
J2 Range Northern	BH-735	BH-735-348-353	N	04/05/2023	Water	348	353
J3 Range	J3-EFF	J3-EFF-199A	N	04/05/2023	Process Water	0	0
J3 Range	J3-MID-2	J3-MID-2-199A	N	04/05/2023	Process Water	0	0
J3 Range	J3-MID-1	J3-MID-1-199A	N	04/05/2023	Process Water	0	0
J3 Range	J3-INF	J3-INF-199A	N	04/05/2023	Process Water	0	0
J2 Range Eastern	J2E-EFF-K	J2E-EFF-K-175A	N	04/05/2023	Process Water	0	0
J2 Range Eastern	J2E-MID-2K	J2E-MID-2K-175A	N	04/05/2023	Process Water	0	0
J2 Range Eastern	J2E-MID-1K	J2E-MID-1K-175A	N	04/05/2023	Process Water	0	0
J2 Range Eastern	J2E-INF-K	J2E-INF-K-175A	N	04/05/2023	Process Water	0	0
J2 Range Northern	WS-2BS	WS-2BS_P23	N	04/05/2023	Ground Water	186	196
J2 Range Northern	BH-735	BH-735-342-347	N	04/05/2023	Water	342	347
J2 Range Eastern	J2E-EFF-J	J2E-EFF-J-175A	N	04/05/2023	Process Water	0	0
J2 Range Eastern	J2E-MID-2J	J2E-MID-2J-175A	N	04/05/2023	Process Water	0	0
J2 Range Eastern	J2E-MID-1J	J2E-MID-1J-175A	N	04/05/2023	Process Water	0	0
J2 Range Eastern	J2E-INF-J	J2E-INF-J-175A	N	04/05/2023	Process Water	0	0
J2 Range Northern	WS-2	WS-2_P23	N	04/05/2023	Ground Water	278	298
Sandwich Water District Wells	WS-2	WS-2_P23	N	04/05/2023	Ground Water	278	298
J2 Range Eastern	J2E-EFF-IH	J2E-EFF-IH-175A	N	04/05/2023	Process Water	0	0
J2 Range Eastern	J2E-MID-2H	J2E-MID-2H-175A	N	04/05/2023	Process Water	0	0
J2 Range Eastern	J2E-MID-1H	J2E-MID-1H-175A	N	04/05/2023	Process Water	0	0
J2 Range Eastern	J2E-MID-2I	J2E-MID-2I-175A	N	04/05/2023	Process Water	0	0
J2 Range Eastern	J2E-MID-1I	J2E-MID-1I-175A	N	04/05/2023	Process Water	0	0
J2 Range Eastern	J2E-INF-I	J2E-INF-I-175A	N	04/05/2023	Process Water	0	0
J2 Range Northern	FIELDQC	EB_040523	EB	04/05/2023	Water Quality Control Matrix	0	0
J2 Range Northern	BH-735	BH-735-332-337	N	04/04/2023	Water	332	337
J2 Range Northern	BH-735	BH-735-322-327	N	04/04/2023	Water	322	327
Central Impact Area	CIA2-EFF	CIA2-EFF-111A	N	04/04/2023	Process Water	0	0
Central Impact Area	CIA2-MID2	CIA2-MID2-111A	N	04/04/2023	Process Water	0	0

N = Normal Sample
FD = Field Duplicate

TABLE 1
Sampling Progress: 01 to 30 April 2023

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
Central Impact Area	CIA2-MID1	CIA2-MID1-111A	N	04/04/2023	Process Water	0	0
Central Impact Area	CIA2-INF	CIA2-INF-111A	N	04/04/2023	Process Water	0	0
J2 Range Northern	MW-340D	MW-340D_P23	N	04/04/2023	Ground Water	329.6	339.6
J2 Range Northern	BH-735	BH-735-312-317	N	04/04/2023	Water	312	317
Central Impact Area	CIA1-EFF	CIA1-EFF-111A	N	04/04/2023	Process Water	0	0
Central Impact Area	CIA1-MID2	CIA1-MID2-111A	N	04/04/2023	Process Water	0	0
Central Impact Area	CIA1-MID1	CIA1-MID1-111A	N	04/04/2023	Process Water	0	0
Central Impact Area	CIA1-INF	CIA1-INF-111A	N	04/04/2023	Process Water	0	0
J2 Range Northern	FIELDQC	FRB_J2N_040423	AB	04/04/2023	Water Quality Control Matrix	0	0
J2 Range Northern	MW-345M2	MW-345M2_P23	N	04/04/2023	Ground Water	236.62	246.62
J2 Range Northern	MW-345M2	MW-345M2_P23D	FD	04/04/2023	Ground Water	236.62	246.62
Central Impact Area	CIA3-EFF	CIA3-EFF-82A	N	04/04/2023	Process Water	0	0
Central Impact Area	CIA3-MID2	CIA3-MID2-82A	N	04/04/2023	Process Water	0	0
Central Impact Area	CIA3-MID1	CIA3-MID1-82A	N	04/04/2023	Process Water	0	0
Central Impact Area	CIA3-INF	CIA3-INF-82A	N	04/04/2023	Process Water	0	0
J2 Range Northern	MW-345M1	MW-345M1_P23	N	04/04/2023	Ground Water	311.5	321.5
J2 Range Northern	BH-735	BH-735-302-307	N	04/04/2023	Water	302	307
J2 Range Northern	BH-735	BH-735-302-307-D	FD	04/04/2023	Water	302	307
J2 Range Northern	FIELDQC	BH-735-GAC-EFF-06	FB	04/04/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	BH-735-GAC-EFF-06	FB	04/04/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	BH-735-GAC-MID-06	FB	04/04/2023	Water Quality Control Matrix	0	0
J2 Range Northern	FIELDQC	BH-735-GAC-MID1-06	FB	04/04/2023	Water Quality Control Matrix	0	0
J2 Range Northern	BH-735	BH-735-292-297	N	04/03/2023	Water	292	297
J2 Range Northern	BH-735	BH-735-282-287	N	04/03/2023	Water	282	287
J2 Range Northern	J2EW0002	J2EW0002_P23	N	04/03/2023	Ground Water	198	233
Demolition Area 1	FPR-2-EFF-A	FPR-2-EFF-A-205A	N	04/03/2023	Process Water	0	0
Demolition Area 1	FPR-2-GAC-MID1A	FPR-2-GAC-MID1A-205A	N	04/03/2023	Process Water	0	0
Demolition Area 1	FPR2-POST-IX-A	FPR2-POST-IX-A-205A	N	04/03/2023	Process Water	0	0
Demolition Area 1	FPR-2-INF	FPR-2-INF-205A	N	04/03/2023	Process Water	0	0
Central Impact Area	MW-192M3	MW-192M3_P23	N	04/03/2023	Ground Water	115	125
J2 Range Northern	MW-192M3	MW-192M3_P23	N	04/03/2023	Ground Water	115	125
Central Impact Area	MW-192M2	MW-192M2_P23	MS	04/03/2023	Ground Water	135	145
Central Impact Area	MW-192M2	MW-192M2_P23	N	04/03/2023	Ground Water	135	145
Central Impact Area	MW-192M2	MW-192M2_P23	SD	04/03/2023	Ground Water	135	145
J2 Range Northern	MW-192M2	MW-192M2_P23	MS	04/03/2023	Ground Water	135	145
J2 Range Northern	MW-192M2	MW-192M2_P23	N	04/03/2023	Ground Water	135	145
J2 Range Northern	MW-192M2	MW-192M2_P23	SD	04/03/2023	Ground Water	135	145
Demolition Area 1	D1LE-EFF	D1LE-EFF-81A	N	04/03/2023	Process Water	0	0
Demolition Area 1	D1LE-MID2	D1LE-MID2-81A	N	04/03/2023	Process Water	0	0
Demolition Area 1	D1LE-MID1	D1LE-MID1-81A	N	04/03/2023	Process Water	0	0
Demolition Area 1	D1LE-INF	D1LE-INF-81A	N	04/03/2023	Process Water	0	0
Central Impact Area	MW-192M1	MW-192M1_P23	N	04/03/2023	Ground Water	195	205
J2 Range Northern	MW-192M1	MW-192M1_P23	N	04/03/2023	Ground Water	195	205
Demolition Area 1	D1-EFF	D1-EFF-153A	N	04/03/2023	Process Water	0	0
Demolition Area 1	D1-MID-2	D1-MID-2-153A	N	04/03/2023	Process Water	0	0
Demolition Area 1	D1-MID-1	D1-MID-1-153A	N	04/03/2023	Process Water	0	0
Demolition Area 1	D1-INF	D1-INF-153A	N	04/03/2023	Process Water	0	0

N = Normal Sample
FD = Field Duplicate

TABLE 2
VALIDATED EXPLOSIVE AND PERCHLORATE RESULTS
Data Received April 2023

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	J2EW0003	J2EW0003_S23	202	232	03/30/2023	SW6850	Perchlorate	0.21		µg/L	2.0		0.058	0.20
J2 Range Northern	J2EW0002	J2EW0002_S23	198	233	03/30/2023	SW8330	4-Amino-2,6-dinitrotoluene	0.099	J	µg/L	7.3		0.036	0.20
J2 Range Northern	J2EW0002	J2EW0002_S23	198	233	03/30/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.093	J	µg/L	0.60		0.037	0.20
J2 Range Northern	J2EW0002	J2EW0002_S23	198	233	03/30/2023	SW6850	Perchlorate	3.3		µg/L	2.0	X	0.058	0.20
J2 Range Northern	J2EW0002	J2EW0002_S23D	198	233	03/30/2023	SW6850	Perchlorate	3.4		µg/L	2.0	X	0.058	0.20
J2 Range Northern	J2EW0001	J2EW0001_S23	179	234	03/30/2023	SW6850	Perchlorate	0.52		µg/L	2.0		0.058	0.20
J2 Range Northern	J2EW0001	J2EW0001_S23	179	234	03/30/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.15	J	µg/L	0.60		0.037	0.20
Central Impact Area	MW-123M2	MW-123M2_S23	236	246	03/29/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.18	J	µg/L	0.60		0.037	0.20
Central Impact Area	MW-123M1	MW-123M1_S23	291	301	03/29/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.15	J	µg/L	0.60		0.037	0.20
Central Impact Area	MW-270D	MW-270D_S23	132	137	03/28/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.14	J	µg/L	0.60		0.037	0.20
Central Impact Area	MW-284M2	MW-284M2_S23	45	55	03/28/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.11	J	µg/L	0.60		0.037	0.20
Central Impact Area	MW-284M1	MW-284M1_S23	115	125	03/28/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.16	J	µg/L	0.60		0.037	0.20
Central Impact Area	MW-615M1	MW-615M1_S23	260	270	03/23/2023	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.27	J	µg/L	400		0.11	0.20
Central Impact Area	MW-615M1	MW-615M1_S23	260	270	03/23/2023	SW6850	Perchlorate	1.1		µg/L	2.0		0.058	0.20
Central Impact Area	MW-615M1	MW-615M1_S23	260	270	03/23/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	2.3		µg/L	0.60	X	0.037	0.20
Central Impact Area	MW-615M1	MW-615M1_S23D	260	270	03/23/2023	SW6850	Perchlorate	1.1		µg/L	2.0		0.058	0.20
Central Impact Area	MW-615M1	MW-615M1_S23D	260	270	03/23/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	2.2		µg/L	0.60	X	0.037	0.20
Central Impact Area	MW-615M1	MW-615M1_S23D	260	270	03/23/2023	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.29		µg/L	400		0.11	0.20
Central Impact Area	MW-614M1	MW-614M1_S23	275	285	03/23/2023	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.13	J	µg/L	400		0.11	0.20
Central Impact Area	MW-614M1	MW-614M1_S23	275	285	03/23/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1.2		µg/L	0.60	X	0.037	0.20
Central Impact Area	MW-614M1	MW-614M1_S23	275	285	03/23/2023	SW6850	Perchlorate	0.24		µg/L	2.0		0.058	0.20
Central Impact Area	MW-108M4	MW-108M4_S23	240	250	03/23/2023	SW6850	Perchlorate	0.20		µg/L	2.0		0.058	0.20
Central Impact Area	MW-108M1	MW-108M1_S23	297	307	03/23/2023	SW6850	Perchlorate	0.26		µg/L	2.0		0.058	0.20
Western Boundary	MW-282M2	MW-282M2_S23	206	216	03/22/2023	SW6850	Perchlorate	0.063	J	µg/L	2.0		0.058	0.20
Central Impact Area	MW-51D	MW-51D_S23	264	274	03/21/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.071	J	µg/L	0.60		0.037	0.20
Central Impact Area	MW-625M1	MW-625M1_S23	260	270	03/20/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.40		µg/L	0.60		0.037	0.20
Central Impact Area	MW-618M1	MW-618M1_S23	238.5	248.5	03/16/2023	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.27		µg/L	400		0.11	0.20
Central Impact Area	MW-618M1	MW-618M1_S23	238.5	248.5	03/16/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.39		µg/L	0.60		0.037	0.20
Central Impact Area	MW-102M2	MW-102M2_S23	237	247	03/15/2023	SW6850	Perchlorate	0.15	J	µg/L	2.0		0.058	0.20
Central Impact Area	MW-102M2	MW-102M2_S23	237	247	03/15/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.14	J	µg/L	0.60		0.037	0.20
Central Impact Area	MW-102M1	MW-102M1_S23	267	277	03/15/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.23		µg/L	0.60		0.037	0.20
Central Impact Area	MW-623M2	MW-623M2_S23	291.8	301.8	03/15/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.091	J	µg/L	0.60		0.037	0.20
Central Impact Area	MW-176M2	MW-176M2_S23	229	239	03/14/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.11	J	µg/L	0.60		0.037	0.20
Central Impact Area	MW-176M1	MW-176M1_S23	270	280	03/14/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.94		µg/L	0.60	X	0.037	0.20
Central Impact Area	MW-609M2	MW-609M2_S23	182.4	192.4	03/14/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.16	J	µg/L	0.60		0.037	0.20
Central Impact Area	MW-609M1	MW-609M1_S23	210.4	220.4	03/14/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1.1		µg/L	0.60	X	0.037	0.20
Central Impact Area	MW-710M1	MW-710M1_S23	247.5	257.5	03/13/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.063	J	µg/L	0.60		0.037	0.20
Central Impact Area	MW-628M1	MW-628M1_S23	230.8	240.8	03/13/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.53		µg/L	0.60		0.037	0.20
Central Impact Area	MW-699M1	MW-699M1_S23	261.5	271.5	03/09/2023	SW6850	Perchlorate	0.063	J	µg/L	2.0		0.058	0.20
Central Impact Area	MW-699M1	MW-699M1_S23	261.5	271.5	03/09/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.74		µg/L	0.60	X	0.037	0.20
Central Impact Area	MW-626M2	MW-626M2_S23	237.2	247.2	03/09/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.23		µg/L	0.60		0.037	0.20

J = Estimated Result
MDL = Method Detection Limit
RL = Reporting Limit

MCL/HA= Either the MCL or Lowest Health Advisory Limit
May 08, 2023

TABLE 2
VALIDATED EXPLOSIVE AND PERCHLORATE RESULTS
Data Received April 2023

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
Central Impact Area	MW-626M1	MW-626M1_S23	282.2	292.2	03/09/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.89		µg/L	0.60	X	0.037	0.20
Central Impact Area	MW-644M1	MW-644M1_S23	275.9	285.9	03/09/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.49		µg/L	0.60		0.037	0.20
Central Impact Area	MW-644M1	MW-644M1_S23D	275.9	285.9	03/09/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.51		µg/L	0.60		0.037	0.20
Central Impact Area	MW-323M1	MW-323M1_S23	195	205	03/08/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.45		µg/L	0.60		0.037	0.20
Central Impact Area	MW-338M1	MW-338M1_S23	189	199	03/08/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.40		µg/L	0.60		0.037	0.20
Central Impact Area	MW-616M1	MW-616M1_S23	217.1	227.1	03/06/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1.5		µg/L	0.60	X	0.037	0.20
Central Impact Area	MW-617M1	MW-617M1_S23	175.8	185.8	03/06/2023	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.41		µg/L	0.60		0.037	0.20

J = Estimated Result
MDL = Method Detection Limit
RL = Reporting Limit

MCL/HA= Either the MCL or Lowest Health Advisory Limit
May 08, 2023

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

KGS 2019 PFAS MW&INF - Demolition Area 1

	Location	D1-INF	FPR-2-INF	MW-258M1	MW-663D	PR-INF
	Field Sample ID	D1-INF_PFAS19	FPR-2-INF_PFAS19	MW-258M1_PFAS19	MW-663D_PFAS19	PR-INF_PFAS19
	Sampling Depth	0.00 - 0.00	0.00 - 0.00	109.00 - 119.00	240.60 - 250.60	0.00 - 0.00
	Sampling Date	06/24/2019	06/25/2019	06/19/2019	06/24/2019	06/25/2019
	SDG	320517141	320517141	320515981	320517141	320517141
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		18.0 U	19.0 U	20.0 U	20.0 U	20.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.10 U	9.50 U	9.80 U	9.80 U	9.80 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.10 U	9.50 U	9.80 U	9.80 U	9.80 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.10 U	9.50 U	9.80 U	9.80 U	9.80 U
Perfluorobutanesulfonic acid (PFBS)	600	0.910 U	0.950 U	0.980 U	0.980 U	0.980 U
Perfluorobutanoic acid (PFBA)		1.40 U	1.40 U	1.50 U	1.50 U	1.50 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.50 U	1.50 U	1.50 U
Perfluorodecanoic acid (PFDA)		0.910 U	0.950 U	0.980 U	**2.20**	0.980 U
Perfluorododecanoic acid (PFDoA)		1.40 U	1.40 U	1.50 U	1.50 U	1.50 U
Perfluoroheptanesulfonic acid (PFHpS)		0.910 U	0.950 U	0.980 U	0.980 U	0.980 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.40 U	1.50 U	1.50 U	1.50 U
Perfluorohexane sulfonate (PFHxS)	39	0.910 U	0.950 U	0.980 U	0.980 U	2.00 U
Perfluorohexanoic acid (PFHxA)		0.910 U	0.950 U	0.980 U	0.980 U	0.980 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.40 U	1.50 U	**1.00 J**	1.50 U
Perfluorooctanesulfonamide (PFOSA)		2.70 U	2.80 U	2.90 U	3.00 U	2.90 U
Perfluorooctanesulfonic acid (PFOS)	4	2.70 U	2.80 U	2.90 U	3.00 U	2.90 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.40 U	1.50 U	1.50 U	1.50 U
Perfluoropentanoic acid (PFPeA)		0.910 U	0.950 U	0.980 U	**0.460 J**	0.980 U
Perfluorotetradecanoic acid (PFTeDA)		2.70 U	2.80 U	2.90 U	3.00 U	2.90 U
Perfluorotridecanoic acid (PFTrDA)		2.70 U	2.80 U	2.90 U	3.00 U	2.90 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.40 U	1.50 U	**1.20 J**	1.50 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	D1-INF	FPR-2-INF	MW-258M1	MW-663D	PR-INF
	Field Sample ID	D1-INF_PFAS19	FPR-2-INF_PFAS19	MW-258M1_PFAS19	MW-663D_PFAS19	PR-INF_PFAS19
	Sampling Depth	0.00 - 0.00	0.00 - 0.00	109.00 - 119.00	240.60 - 250.60	0.00 - 0.00
	Sampling Date	06/24/2019	06/25/2019	06/19/2019	06/24/2019	06/25/2019
	SDG	320517141	320517141	320515981	320517141	320517141
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**2.20**	**0.00**
§Sum of All Compounds Detected		**0.00**	**0.00**	**0.00**	**4.86**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

KGS 2019 PFAS MW&INF - J1 Range Northern

	Location	J1N-INF2	J1N-INF2	MW-136S	MW-564M1	MW-590M2
	Field Sample ID	J1N-INF2_PFAS19	J1N-INF2_PFAS19R	MW-136S_PFAS19	MW-564M1_PFAS19	MW-590M2_PFAS19
	Sampling Depth	0.00 - 0.00	0.00 - 0.00	107.00 - 117.00	227.00 - 237.00	238.00 - 248.00
	Sampling Date	06/17/2019	07/30/2019	06/24/2019	06/24/2019	06/24/2019
	SDG	320514661	320528231	320517141	320517141	320517141
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		19.0 U	19.0 U	20.0 U	18.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.30 U	9.60 U	9.80 U	9.20 U	9.60 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.30 U	9.60 U	9.80 U	9.20 U	9.60 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.30 U	9.60 U	9.80 U	9.20 U	9.60 U
Perfluorobutanesulfonic acid (PFBS)	600	0.930 U	0.960 U	0.980 U	0.920 U	0.960 U
Perfluorobutanoic acid (PFBA)		1.90 U	1.40 U	**0.990 J**	1.40 U	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.50 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.930 U	0.960 U	0.980 U	0.920 U	0.960 U
Perfluorododecanoic acid (PFDoA)		1.40 U	1.40 U	1.50 U	1.40 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.930 U	0.960 U	0.980 U	0.920 U	0.960 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.40 U	1.50 U	1.40 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	0.930 U	1.90 U	2.00 U	1.80 U	0.960 U
Perfluorohexanoic acid (PFHxA)		0.930 U	0.960 U	0.980 U	0.920 U	0.960 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.40 U	1.50 U	1.40 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		**1.80 J**	2.90 U	2.90 U	2.80 U	2.90 U
Perfluorooctanesulfonic acid (PFOS)	4	**4.90**	2.90 U	**1.40 J**	2.80 U	2.90 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.40 U	**2.40**	1.40 U	1.40 U
Perfluoropentanoic acid (PFPeA)		0.930 U	0.960 U	0.980 U	0.920 U	0.960 U
Perfluorotetradecanoic acid (PFTeDA)		2.80 U	2.90 U	2.90 U	2.80 U	2.90 U
Perfluorotridecanoic acid (PFTrDA)		2.80 U	2.90 U	2.90 U	2.80 U	2.90 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.40 U	1.50 U	1.40 U	1.40 U
†PFOS + PFOA (EPA)		**4.90**	**0.00**	**3.80**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	J1N-INF2	J1N-INF2	MW-136S	MW-564M1	MW-590M2
	Field Sample ID	J1N-INF2_PFAS19	J1N-INF2_PFAS19R	MW-136S_PFAS19	MW-564M1_PFAS19	MW-590M2_PFAS19
	Sampling Depth	0.00 - 0.00	0.00 - 0.00	107.00 - 117.00	227.00 - 237.00	238.00 - 248.00
	Sampling Date	06/17/2019	07/30/2019	06/24/2019	06/24/2019	06/24/2019
	SDG	320514661	320528231	320517141	320517141	320517141
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**4.90**	**0.00**	**2.40**	**0.00**	**0.00**
§Sum of All Compounds Detected		**6.70**	**0.00**	**4.79**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

KGS 2019 PFAS MW&INF - J2 Range Eastern

	Location	J2E-INF-I	J2E-INF-J	J2E-INF-K	MW-307M3	MW-307M3	MW-368M1
	Field Sample ID	J2E-INF-I_PFAS19	J2E-INF-J_PFAS19	J2E-INF-K_PFAS19	MW-307M3_PFAS19	MW-307M3_PFAS19D	MW-368M1_PFAS19
	Sampling Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	125.80 - 135.82	125.80 - 135.82	237.35 - 247.35
	Sampling Date	06/20/2019	06/20/2019	06/20/2019	06/18/2019	06/18/2019	06/18/2019
	SDG	320515981	320515981	320515981	320514662	320514662	320514662
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Field Duplicate**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		19.0 U	19.0 U	20.0 U	18.0 U	19.0 U	17.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.70 U	9.30 U	9.80 U	9.00 U	9.60 U	8.50 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.70 U	9.30 U	9.80 U	9.00 U	9.60 U	8.50 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.70 U	9.30 U	9.80 U	9.00 U	9.60 U	8.50 U
Perfluorobutanesulfonic acid (PFBS)	600	0.970 U	0.930 U	0.980 U	0.900 U	0.960 U	0.850 U
Perfluorobutanoic acid (PFBA)		1.50 U	1.40 U	1.50 U	1.80 U	1.90 U	1.70 U
Perfluorodecanesulfonic acid (PFDS)		1.50 U	1.40 U	1.50 U	1.30 U	1.40 U	1.30 U
Perfluorodecanoic acid (PFDA)		0.970 U	0.930 U	0.980 U	0.900 U	0.960 U	**1.40 J**
Perfluorododecanoic acid (PFDoA)		1.50 U	1.40 U	1.50 U	1.30 U	1.40 U	**0.450 J**
Perfluoroheptanesulfonic acid (PFHpS)		0.970 U	0.930 U	0.980 U	0.900 U	0.960 U	0.850 U
Perfluoroheptanoic acid (PFHpA)		1.50 U	1.40 U	1.50 U	1.30 U	1.40 U	1.30 U
Perfluorohexane sulfonate (PFHxS)	39	0.970 U	0.930 U	0.980 U	0.900 U	0.960 U	0.850 U
Perfluorohexanoic acid (PFHxA)		0.970 U	0.930 U	0.980 U	0.900 U	0.960 U	0.850 U
Perfluorononanoic acid (PFNA)	5.9	1.50 U	1.40 U	1.50 U	**0.880 J**	**0.730 J**	**0.650 J**
Perfluorooctanesulfonamide (PFOSA)		2.90 U	2.80 U	2.90 U	2.70 U	2.90 U	2.60 U
Perfluorooctanesulfonic acid (PFOS)	4	2.90 U	2.80 U	2.90 U	2.70 U	2.90 U	2.60 U
Perfluorooctanoic acid (PFOA)	6	1.50 U	1.40 U	1.50 U	1.30 U	1.40 U	1.30 U
Perfluoropentanoic acid (PFPeA)		0.970 U	0.930 U	0.980 U	0.900 U	0.960 U	0.850 U
Perfluorotetradecanoic acid (PFTeDA)		2.90 U	2.80 U	2.90 U	2.70 U	2.90 U	2.60 U
Perfluorotridecanoic acid (PFTrDA)		2.90 U	2.80 U	2.90 U	2.70 U	2.90 U	2.60 U
Perfluoroundecanoic acid (PFUnA)		1.50 U	1.40 U	1.50 U	1.30 U	1.40 U	**4.90**
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-368M2	MW-667M1
	Field Sample ID	MW-368M2_PFAS19	MW-667M1_PFAS19
	Sampling Depth	202.73 - 212.73	302.30 - 312.30
	Sampling Date	06/18/2019	06/17/2019
	SDG	320514662	320514661
	Sample Type	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		18.0 U	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		8.80 U	9.00 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		8.80 U	9.00 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		8.80 U	9.00 U
Perfluorobutanesulfonic acid (PFBS)	600	0.880 U	0.900 U
Perfluorobutanoic acid (PFBA)		1.30 U	1.80 U
Perfluorodecanesulfonic acid (PFDS)		1.30 U	1.40 U
Perfluorodecanoic acid (PFDA)		**0.800 J**	**4.30**
Perfluorododecanoic acid (PFDoA)		1.30 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.880 U	0.900 U
Perfluoroheptanoic acid (PFHpA)		1.30 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	0.880 U	0.900 U
Perfluorohexanoic acid (PFHxA)		0.880 U	0.900 U
Perfluorononanoic acid (PFNA)	5.9	1.30 U	**2.80**
Perfluorooctanesulfonamide (PFOSA)		2.60 U	2.70 U
Perfluorooctanesulfonic acid (PFOS)	4	2.60 U	2.70 U
Perfluorooctanoic acid (PFOA)	6	1.30 U	1.40 U
Perfluoropentanoic acid (PFPeA)		0.880 U	0.900 U
Perfluorotetradecanoic acid (PFTeDA)		2.60 U	2.70 U
Perfluorotridecanoic acid (PFTrDA)		2.60 U	2.70 U
Perfluoroundecanoic acid (PFUnA)		**2.40**	**1.60 J**
†PFOS + PFOA (EPA)		**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	J2E-INF-I	J2E-INF-J	J2E-INF-K	MW-307M3	MW-307M3	MW-368M1
	Field Sample ID	J2E-INF-I_PFAS19	J2E-INF-J_PFAS19	J2E-INF-K_PFAS19	MW-307M3_PFAS19	MW-307M3_PFAS19D	MW-368M1_PFAS19
	Sampling Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	125.80 - 135.82	125.80 - 135.82	237.35 - 247.35
	Sampling Date	06/20/2019	06/20/2019	06/20/2019	06/18/2019	06/18/2019	06/18/2019
	SDG	320515981	320515981	320515981	320514662	320514662	320514662
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Field Duplicate**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
§Sum of All Compounds Detected		**0.00**	**0.00**	**0.00**	**0.880**	**0.730**	**7.40**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-368M2	MW-667M1
	Field Sample ID	MW-368M2_PFAS19	MW-667M1_PFAS19
	Sampling Depth	202.73 - 212.73	302.30 - 312.30
	Sampling Date	06/18/2019	06/17/2019
	SDG	320514662	320514661
	Sample Type	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**7.10**
§Sum of All Compounds Detected		**3.20**	**8.70**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

KGS 2019 PFAS MW&INF - J2 Range Northern

	Location	J2EW0001	J2EW0002	J2N-INF-E	J2N-INF-F	J2N-INF-F	J2N-INF-G
	Field Sample ID	J2EW0001_PFAS19	J2EW0002_PFAS19	J2N-INF-E_PFAS19	J2N-INF-F_PFAS19	J2N-INF-F_PFAS19R	J2N-INF-G_PFAS19
	Sampling Depth	179.00 - 234.00	198.00 - 233.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
	Sampling Date	11/20/2019	11/20/2019	06/18/2019	06/18/2019	07/30/2019	07/30/2019
	SDG	320565491	320565491	320514662	320514662	320528231	320528231
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		19.0 U	40.0 U	19.0 U	19.0 U	19.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		19.0 U	20.0 U	9.30 U	9.30 U	9.60 U	9.70 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.60 U	10.0 U	9.30 U	9.30 U	9.60 U	9.70 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.60 U	10.0 U	9.30 U	9.30 U	9.60 U	9.70 U
Perfluorobutanesulfonic acid (PFBS)	600	0.960 U	1.00 U	0.930 U	0.930 U	0.960 U	**1.40 J**
Perfluorobutanoic acid (PFBA)		1.40 U	1.50 U	1.40 U	1.90 U	1.40 U	1.50 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.50 U	1.40 U	1.40 U	1.40 U	1.50 U
Perfluorodecanoic acid (PFDA)		0.960 U	1.00 U	0.930 U	0.930 U	0.960 U	0.970 U
Perfluorododecanoic acid (PFDoA)		1.40 U	1.50 U	1.40 U	1.40 U	1.40 U	1.50 U
Perfluoroheptanesulfonic acid (PFHpS)		0.960 U	**0.370 J**	0.930 U	**0.400 J**	**0.500 J**	0.970 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	**1.00 J**	1.40 U	**0.940 J**	**1.00 J**	1.50 U
Perfluorohexane sulfonate (PFHxS)	39	0.960 U	**11.0**	0.930 U	**9.90**	**9.00**	1.90 U
Perfluorohexanoic acid (PFHxA)		0.960 U	**1.30 J**	0.930 U	**1.20 J**	**1.30 J**	**2.30**
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.50 U	1.40 U	1.40 U	1.40 U	1.50 U
Perfluorooctanesulfonamide (PFOSA)		2.90 U	3.00 U	2.80 U	2.80 U	2.90 U	2.90 U
Perfluorooctanesulfonic acid (PFOS)	4	2.90 U	**1.30 J**	2.80 U	2.80 U	**1.10 J**	2.90 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	**1.50 J**	1.40 U	**1.70 J**	**1.50 J**	1.50 U
Perfluoropentanoic acid (PFPeA)		0.960 U	**0.910 J**	0.930 U	**0.840 J**	**1.00 J**	**1.20 J**
Perfluorotetradecanoic acid (PFTeDA)		2.90 U	3.00 U	2.80 U	2.80 U	2.90 U	2.90 U
Perfluorotridecanoic acid (PFTrDA)		2.90 U	3.00 U	2.80 U	2.80 U	2.90 U	2.90 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.50 U	1.40 U	1.40 U	1.40 U	1.50 U
†PFOS + PFOA (EPA)		**0.00**	**2.80**	**0.00**	**1.70**	**2.60**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-234M2	MW-313M1	MW-587M2
	Field Sample ID	MW-234M2_PFAS19	MW-313M1_PFAS19	MW-587M2_PFAS19
	Sampling Depth	110.00 - 120.00	255.40 - 265.40	220.00 - 230.00
	Sampling Date	06/17/2019	06/19/2019	06/19/2019
	SDG	320514661	320515981	320515981
	Sample Type	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		18.0 U	20.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		8.80 U	9.80 U	9.70 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		8.80 U	9.80 U	9.70 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		8.80 U	9.80 U	9.70 U
Perfluorobutanesulfonic acid (PFBS)	600	0.880 U	0.980 U	0.970 U
Perfluorobutanoic acid (PFBA)		1.80 U	**0.700 J**	1.50 U
Perfluorodecanesulfonic acid (PFDS)		1.30 U	1.50 U	1.50 U
Perfluorodecanoic acid (PFDA)		0.880 U	**1.20 J**	0.970 U
Perfluorododecanoic acid (PFDoA)		1.30 U	1.50 U	1.50 U
Perfluoroheptanesulfonic acid (PFHpS)		0.880 U	0.980 U	0.970 U
Perfluoroheptanoic acid (PFHpA)		1.30 U	1.50 U	1.50 U
Perfluorohexane sulfonate (PFHxS)	39	**0.600 J**	0.980 U	0.970 U
Perfluorohexanoic acid (PFHxA)		0.880 U	0.980 U	0.970 U
Perfluorononanoic acid (PFNA)	5.9	1.30 U	**1.10 J**	1.50 U
Perfluorooctanesulfonamide (PFOSA)		2.60 U	2.90 U	2.90 U
Perfluorooctanesulfonic acid (PFOS)	4	**1.90 J**	2.90 U	2.90 U
Perfluorooctanoic acid (PFOA)	6	**0.550 J**	1.50 U	1.50 U
Perfluoropentanoic acid (PFPeA)		0.880 U	**0.680 J**	0.970 U
Perfluorotetradecanoic acid (PFTeDA)		2.60 U	2.90 U	2.90 U
Perfluorotridecanoic acid (PFTrDA)		2.60 U	2.90 U	2.90 U
Perfluoroundecanoic acid (PFUnA)		1.30 U	**1.40 J**	1.50 U
†PFOS + PFOA (EPA)		**2.45**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	J2EW0001	J2EW0002	J2N-INF-E	J2N-INF-F	J2N-INF-F	J2N-INF-G
	Field Sample ID	J2EW0001_PFAS19	J2EW0002_PFAS19	J2N-INF-E_PFAS19	J2N-INF-F_PFAS19	J2N-INF-F_PFAS19R	J2N-INF-G_PFAS19
	Sampling Depth	179.00 - 234.00	198.00 - 233.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
	Sampling Date	11/20/2019	11/20/2019	06/18/2019	06/18/2019	07/30/2019	07/30/2019
	SDG	320565491	320565491	320514662	320514662	320528231	320528231
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**11.0**	**0.00**	**9.90**	**9.00**	**0.00**
§Sum of All Compounds Detected		**0.00**	**17.4**	**0.00**	**15.0**	**15.4**	**4.90**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-234M2	MW-313M1	MW-587M2
	Field Sample ID	MW-234M2_PFAS19	MW-313M1_PFAS19	MW-587M2_PFAS19
	Sampling Depth	110.00 - 120.00	255.40 - 265.40	220.00 - 230.00
	Sampling Date	06/17/2019	06/19/2019	06/19/2019
	SDG	320514661	320515981	320515981
	Sample Type	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**
§Sum of All Compounds Detected		**3.05**	**5.08**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

KGS 2019 PFAS MW&INF - J3 Range

	Location	J3-INF	J3-INF	MW-163S	MW-163S	MW-163S	MW-227M2
	Field Sample ID	J3-INF_PFAS19	J3-INF_PFAS19D	MW-163S_PFAS19	MW-163S_PFAS19D	MW-163S_PFAS19R	MW-227M2_PFAS19
	Sampling Depth	0.00 - 0.00	0.00 - 0.00	38.00 - 48.00	38.00 - 48.00	38.00 - 48.00	110.00 - 120.00
	Sampling Date	06/17/2019	06/17/2019	06/18/2019	06/18/2019	07/30/2019	06/19/2019
	SDG	320514661	320514661	320514662	320514662	320528231	320515981
	Sample Type	**Normal**	**Field Duplicate**	**Normal**	**Field Duplicate**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		19.0 U	18.0 U	17.0 U	17.0 U	19.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.40 U	9.20 U	8.60 U	8.60 U	9.30 U	9.60 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.40 U	9.20 U	8.60 U	8.60 U	9.30 U	9.60 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.40 U	9.20 U	8.60 U	8.60 U	9.30 U	9.60 U
Perfluorobutanesulfonic acid (PFBS)	600	0.940 U	0.920 U	0.860 U	0.860 U	0.930 U	0.960 U
Perfluorobutanoic acid (PFBA)		1.90 U	1.80 U	1.70 U	1.70 U	**0.560 J**	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.30 U	1.30 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.940 U	0.920 U	0.860 U	0.860 U	0.930 U	0.960 U
Perfluorododecanoic acid (PFDoA)		**1.70 J**	1.40 U	1.30 U	1.30 U	1.40 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.940 U	0.920 U	0.860 U	0.860 U	0.930 U	0.960 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.40 U	1.30 U	1.30 U	1.40 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	**1.50 J**	**1.50 J**	**0.690 J**	**0.610 J**	1.90 U	**0.540 J**
Perfluorohexanoic acid (PFHxA)		0.940 U	0.920 U	**0.410 J**	0.860 U	0.930 U	0.960 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.40 U	1.30 U	1.30 U	1.40 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		2.80 U	2.80 U	2.60 U	2.60 U	2.80 U	2.90 U
Perfluorooctanesulfonic acid (PFOS)	4	2.80 U	2.80 U	**12.0**	**12.0**	**12.0**	2.90 U
Perfluorooctanoic acid (PFOA)	6	**0.520 J**	1.40 U	**1.70**	**1.60 J**	**1.30 J**	1.40 U
Perfluoropentanoic acid (PFPeA)		0.940 U	0.920 U	0.860 U	0.860 U	0.930 U	0.960 U
Perfluorotetradecanoic acid (PFTeDA)		2.80 U	2.80 U	2.60 U	2.60 U	2.80 U	2.90 U
Perfluorotridecanoic acid (PFTrDA)		**1.40 J**	2.80 U	2.60 U	2.60 U	2.80 U	2.90 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.40 U	1.30 U	1.30 U	1.40 U	1.40 U
†PFOS + PFOA (EPA)		**0.520**	**0.00**	**13.7**	**13.6**	**13.3**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-250M2
	Field Sample ID	MW-250M2_PFAS19
	Sampling Depth	145.00 - 155.00
	Sampling Date	06/20/2019
	SDG	320515981
	Sample Type	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.70 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.70 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.70 U
Perfluorobutanesulfonic acid (PFBS)	600	0.970 U
Perfluorobutanoic acid (PFBA)		**0.710 J**
Perfluorodecanesulfonic acid (PFDS)		1.40 U
Perfluorodecanoic acid (PFDA)		0.970 U
Perfluorododecanoic acid (PFDoA)		1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.970 U
Perfluoroheptanoic acid (PFHpA)		1.40 U
Perfluorohexane sulfonate (PFHxS)	39	0.970 U
Perfluorohexanoic acid (PFHxA)		0.970 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U
Perfluorooctanesulfonamide (PFOSA)		2.90 U
Perfluorooctanesulfonic acid (PFOS)	4	2.90 U
Perfluorooctanoic acid (PFOA)	6	1.40 U
Perfluoropentanoic acid (PFPeA)		0.970 U
Perfluorotetradecanoic acid (PFTeDA)		2.90 U
Perfluorotridecanoic acid (PFTrDA)		2.90 U
Perfluoroundecanoic acid (PFUnA)		1.40 U
†PFOS + PFOA (EPA)		**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	J3-INF	J3-INF	MW-163S	MW-163S	MW-163S	MW-227M2
	Field Sample ID	J3-INF_PFAS19	J3-INF_PFAS19D	MW-163S_PFAS19	MW-163S_PFAS19D	MW-163S_PFAS19R	MW-227M2_PFAS19
	Sampling Depth	0.00 - 0.00	0.00 - 0.00	38.00 - 48.00	38.00 - 48.00	38.00 - 48.00	110.00 - 120.00
	Sampling Date	06/17/2019	06/17/2019	06/18/2019	06/18/2019	07/30/2019	06/19/2019
	SDG	320514661	320514661	320514662	320514662	320528231	320515981
	Sample Type	**Normal**	**Field Duplicate**	**Normal**	**Field Duplicate**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**13.7**	**12.0**	**12.0**	**0.00**
§Sum of All Compounds Detected		**5.12**	**1.50**	**14.8**	**14.2**	**13.9**	**0.540**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-250M2
	Field Sample ID	MW-250M2_PFAS19
	Sampling Depth	145.00 - 155.00
	Sampling Date	06/20/2019
	SDG	320515981
	Sample Type	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**
§Sum of All Compounds Detected		**0.710**

KGS 2020 J1 Ranges SPM Fall - J1 Range Northern

	Location	MW-136M1	MW-136M1	MW-191M2	MW-245M1	MW-245M2	MW-303M2
	Field Sample ID	MW-136M1_F20	MW-136M1_F20D	MW-191M2_F20	MW-245M1_F20	MW-245M2_F20	MW-303M2_F20
	Sampling Depth	124.00 - 134.00	124.00 - 134.00	120.00 - 130.00	244.00 - 254.00	204.00 - 214.00	235.09 - 245.10
	Sampling Date	12/07/2020	12/07/2020	12/07/2020	12/07/2020	11/10/2020	12/08/2020
	SDG	320677691	320677691	320677691	320677691	320665921	320677701
	Sample Type	**Normal**	**Field Duplicate**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		19.0 U	18.0 U	19.0 U	19.0 U	19.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.60 U	9.20 U	9.70 U	9.30 U	9.30 U	9.50 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.60 U	9.20 U	**15.0 J**	9.30 U	9.30 U	9.50 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.60 U	9.20 U	**2.90 J**	9.30 U	9.30 U	9.50 U
Perfluorobutanesulfonic acid (PFBS)	600	0.960 U	0.920 U	0.970 U	0.930 U	0.930 U	0.950 U
Perfluorobutanoic acid (PFBA)		**0.920 J**	**0.670 J**	1.50 U	1.40 U	**4.00**	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.960 U	0.920 U	0.970 U	0.930 U	0.930 U	**0.700 J**
Perfluorododecanoic acid (PFDoA)		1.40 U	1.40 U	1.50 U	1.40 U	1.40 U	**1.70 J**
Perfluoroheptanesulfonic acid (PFHpS)		0.960 U	0.920 U	0.970 U	0.930 U	0.930 U	0.950 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.40 U	1.50 U	1.40 U	**0.700 J**	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	**0.360 J**	0.920 U	0.970 U	0.930 U	0.930 U	0.950 U
Perfluorohexanoic acid (PFHxA)		0.960 U	0.920 U	0.970 U	0.930 U	**0.850 J**	0.950 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.40 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		2.90 U	2.80 U	2.90 U	2.80 U	2.80 U	2.90 U
Perfluorooctanesulfonic acid (PFOS)	4	2.90 U	2.80 U	2.90 U	2.80 U	2.80 U	2.90 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.40 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluoropentanoic acid (PFPeA)		0.960 U	0.920 U	0.970 U	0.930 U	**4.00**	**0.410 J**
Perfluorotetradecanoic acid (PFTeDA)		2.90 U	2.80 U	2.90 U	2.80 U	2.80 U	2.90 U
Perfluorotridecanoic acid (PFTrDA)		2.90 U	2.80 U	2.90 U	2.80 U	2.80 U	2.90 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.40 U	1.50 U	1.40 U	1.40 U	**2.80**
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

	Location	MW-303M3	MW-326M1	MW-326M2	MW-326M3	MW-346M1	MW-346M2
	Field Sample ID	MW-303M3_F20	MW-326M1_F20	MW-326M2_F20	MW-326M3_F20	MW-346M1_F20	MW-346M2_F20
	Sampling Depth	139.74 - 149.69	250.01 - 260.01	196.27 - 206.28	165.24 - 175.26	0.00 - 0.00	0.00 - 0.00
	Sampling Date	12/08/2020	12/09/2020	12/09/2020	12/09/2020	12/02/2020	12/02/2020
	SDG	320677701	320678771	320678771	320678771	320675551	320675551
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		18.0 U	20.0 U	20.0 U	19.0 U	19.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		8.90 U	10.0 U	10.0 U	9.50 U	9.70 U	9.30 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		8.90 U	10.0 U	10.0 U	9.50 U	9.70 U	9.30 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		8.90 U	10.0 U	10.0 U	9.50 U	9.70 U	9.30 U
Perfluorobutanesulfonic acid (PFBS)	600	0.890 U	1.00 U	1.00 U	0.950 U	0.970 U	0.930 U
Perfluorobutanoic acid (PFBA)		**0.920 J**	1.50 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.30 U	1.50 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		**1.60 J**	**0.950 J**	**5.40**	**3.50**	**2.50**	**2.40**
Perfluorododecanoic acid (PFDoA)		1.30 U	1.50 U	**1.20 J**	**0.600 J**	1.40 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.890 U	1.00 U	1.00 U	0.950 U	0.970 U	0.930 U
Perfluoroheptanoic acid (PFHpA)		1.30 U	1.50 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	0.890 U	1.00 U	1.00 U	0.950 U	0.970 U	0.930 U
Perfluorohexanoic acid (PFHxA)		0.890 U	1.00 U	1.00 U	0.950 U	0.970 U	0.930 U
Perfluorononanoic acid (PFNA)	5.9	**2.60**	**1.50 J**	**1.40 J**	**2.70**	**3.40**	**3.50**
Perfluorooctanesulfonamide (PFOSA)		2.70 U	3.00 U	3.00 U	2.90 U	2.90 U	2.80 U
Perfluorooctanesulfonic acid (PFOS)	4	2.70 U	3.00 U	3.00 U	2.90 U	2.90 U	2.80 U
Perfluorooctanoic acid (PFOA)	6	1.30 U	1.50 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluoropentanoic acid (PFPeA)		0.890 U	**0.440 J**	1.00 U	0.950 U	**0.620 J**	**0.870 J**
Perfluorotetradecanoic acid (PFTeDA)		2.70 U	3.00 U	3.00 U	2.90 U	2.90 U	2.80 U
Perfluorotridecanoic acid (PFTrDA)		2.70 U	3.00 U	3.00 U	2.90 U	2.90 U	2.80 U
Perfluoroundecanoic acid (PFUnA)		1.30 U	**1.00 J**	**13.0**	**6.90**	**5.90**	**2.50**
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**2.60**	**0.00**	**5.40**	**6.20**	**5.90**	**5.90**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-346M3	MW-346M4	MW-58S
	Field Sample ID	MW-346M3_F20	MW-346M4_F20	MW-58S_F20
	Sampling Depth	0.00 - 0.00	0.00 - 0.00	100.00 - 110.00
	Sampling Date	12/02/2020	12/02/2020	12/07/2020
	SDG	320675551	320675551	320677691
	Sample Type	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		20.0 U	18.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.80 U	9.20 U	9.30 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.80 U	9.20 U	9.30 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.80 U	9.20 U	9.30 U
Perfluorobutanesulfonic acid (PFBS)	600	0.980 U	0.920 U	0.930 U
Perfluorobutanoic acid (PFBA)		1.50 U	1.40 U	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.50 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		**0.730 J**	**1.70 J**	0.930 U
Perfluorododecanoic acid (PFDoA)		1.50 U	1.40 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.980 U	0.920 U	0.930 U
Perfluoroheptanoic acid (PFHpA)		1.50 U	1.40 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	0.980 U	0.920 U	0.930 U
Perfluorohexanoic acid (PFHxA)		0.980 U	0.920 U	0.930 U
Perfluorononanoic acid (PFNA)	5.9	**2.20**	**0.650 J**	1.40 U
Perfluorooctanesulfonamide (PFOSA)		2.90 U	2.80 U	2.80 U
Perfluorooctanesulfonic acid (PFOS)	4	2.90 U	2.80 U	2.80 U
Perfluorooctanoic acid (PFOA)	6	1.50 U	1.40 U	1.40 U
Perfluoropentanoic acid (PFPeA)		**0.750 J**	**0.410 J**	0.930 U
Perfluorotetradecanoic acid (PFTeDA)		2.90 U	2.80 U	2.80 U
Perfluorotridecanoic acid (PFTrDA)		2.90 U	2.80 U	2.80 U
Perfluoroundecanoic acid (PFUnA)		**1.00 J**	**6.00**	1.40 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**2.20**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-136M1	MW-136M1	MW-191M2	MW-245M1	MW-245M2	MW-303M2
	Field Sample ID	MW-136M1_F20	MW-136M1_F20D	MW-191M2_F20	MW-245M1_F20	MW-245M2_F20	MW-303M2_F20
	Sampling Depth	124.00 - 134.00	124.00 - 134.00	120.00 - 130.00	244.00 - 254.00	204.00 - 214.00	235.09 - 245.10
	Sampling Date	12/07/2020	12/07/2020	12/07/2020	12/07/2020	11/10/2020	12/08/2020
	SDG	320677691	320677691	320677691	320677691	320665921	320677701
	Sample Type	**Normal**	**Field Duplicate**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
§Sum of All Compounds Detected		**1.28**	**0.670**	**17.9**	**0.00**	**9.55**	**5.61**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-303M3	MW-326M1	MW-326M2	MW-326M3	MW-346M1	MW-346M2
	Field Sample ID	MW-303M3_F20	MW-326M1_F20	MW-326M2_F20	MW-326M3_F20	MW-346M1_F20	MW-346M2_F20
	Sampling Depth	139.74 - 149.69	250.01 - 260.01	196.27 - 206.28	165.24 - 175.26	0.00 - 0.00	0.00 - 0.00
	Sampling Date	12/08/2020	12/09/2020	12/09/2020	12/09/2020	12/02/2020	12/02/2020
	SDG	320677701	320678771	320678771	320678771	320675551	320675551
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
§Sum of All Compounds Detected		**5.12**	**3.89**	**21.0**	**13.7**	**12.4**	**9.27**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-346M3	MW-346M4	MW-58S
	Field Sample ID	MW-346M3_F20	MW-346M4_F20	MW-58S_F20
	Sampling Depth	0.00 - 0.00	0.00 - 0.00	100.00 - 110.00
	Sampling Date	12/02/2020	12/02/2020	12/07/2020
	SDG	320675551	320675551	320677691
	Sample Type	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)
§Sum of All Compounds Detected		**4.68**	**8.76**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

KGS 2020 J2 Ranges SPM Fall - J2 Range Northern

	Location	J2EW0002	J2EW0002	J2EW2-MW2-B	J2EW2-MW2-C	MW-293M2	MW-293M2
	Field Sample ID	J2EW0002_F20	J2EW0002_F20D	J2EW2-MW2-B_F20	J2EW2-MW2-C_F20	MW-293M2_F20	MW-293M2_F20D
	Sampling Depth	198.00 - 233.00	198.00 - 233.00	209.79 - 219.79	243.83 - 253.81	196.42 - 206.42	196.42 - 206.42
	Sampling Date	09/10/2020	09/10/2020	09/09/2020	09/09/2020	08/27/2020	08/27/2020
	SDG	320645641	320645641	320645661	320645661	320641331	320641331
	Sample Type	**Normal**	**Field Duplicate**	**Normal**	**Normal**	**Normal**	**Field Duplicate**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		20.0 U	19.0 U	19.0 U	19.0 U	18.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.90 U	9.50 U	9.40 U	9.70 U	9.20 U	9.50 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.90 U	9.50 U	9.40 U	9.70 U	9.20 U	9.50 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.90 U	9.50 U	9.40 U	9.70 U	9.20 U	9.50 U
Perfluorobutanesulfonic acid (PFBS)	600	0.990 U	0.950 U	0.940 U	0.970 U	**3.40**	**3.60**
Perfluorobutanoic acid (PFBA)		1.50 U	1.40 U	1.40 U	1.50 U	1.40 U	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.50 U	1.40 U	1.40 U	1.50 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.990 U	0.950 U	0.940 U	0.970 U	**4.90**	**4.50**
Perfluorododecanoic acid (PFDoA)		1.50 U	1.40 U	1.40 U	1.50 U	**3.50**	**3.60**
Perfluoroheptanesulfonic acid (PFHpS)		0.990 U	0.950 U	0.940 U	0.970 U	0.920 U	0.950 U
Perfluoroheptanoic acid (PFHpA)		**0.930 J**	**0.910 J**	1.40 U	1.50 U	1.40 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	**9.80**	**9.30**	0.940 U	0.970 U	0.920 U	0.950 U
Perfluorohexanoic acid (PFHxA)		**1.10 J**	**1.10 J**	0.940 U	0.970 U	0.920 U	0.950 U
Perfluorononanoic acid (PFNA)	5.9	1.50 U	1.40 U	1.40 U	1.50 U	**2.00**	**1.50 J**
Perfluorooctanesulfonamide (PFOSA)		3.00 U	2.80 U	2.80 U	2.90 U	2.80 U	2.80 U
Perfluorooctanesulfonic acid (PFOS)	4	3.00 U	2.80 U	2.80 U	2.90 U	2.80 U	2.80 U
Perfluorooctanoic acid (PFOA)	6	**1.70 J**	**1.70 J**	1.40 U	1.50 U	1.40 U	1.40 U
Perfluoropentanoic acid (PFPeA)		**1.10 J**	**1.20 J**	0.940 U	0.970 U	**0.460 J**	**0.410 J**
Perfluorotetradecanoic acid (PFTeDA)		3.00 U	2.80 U	2.80 U	2.90 U	2.80 U	2.80 U
Perfluorotridecanoic acid (PFTrDA)		3.00 U	2.80 U	2.80 U	2.90 U	**1.50 J**	**1.90 J**
Perfluoroundecanoic acid (PFUnA)		1.50 U	1.40 U	1.40 U	1.50 U	**25.0**	**28.0**
†PFOS + PFOA (EPA)		**1.70**	**1.70**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-300M1	MW-300M2	MW-300M3	MW-302M2	MW-305M1	MW-348M2
	Field Sample ID	MW-300M1_F20	MW-300M2_F20	MW-300M3_F20	MW-302M2_F20	MW-305M1_F20	MW-348M2_F20
	Sampling Depth	293.03 - 303.02	197.23 - 207.23	135.31 - 145.31	194.35 - 204.43	202.82 - 212.82	206.54 - 216.54
	Sampling Date	09/08/2020	09/08/2020	09/08/2020	08/27/2020	08/31/2020	08/31/2020
	SDG	320644781	320644781	320644781	320641331	320642421	320642421
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		19.0 U	18.0 U	19.0 U	18.0 U	18.0 U	20.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.50 U	9.00 U	9.40 U	9.20 U	9.10 U	9.80 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.50 U	9.00 U	9.40 U	9.20 U	9.10 U	9.80 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.50 U	9.00 U	9.40 U	9.20 U	9.10 U	9.80 U
Perfluorobutanesulfonic acid (PFBS)	600	0.950 U	0.900 U	0.940 U	0.920 U	0.910 U	0.980 U
Perfluorobutanoic acid (PFBA)		1.40 U	1.40 U	**0.550 J**	1.40 U	1.40 U	**1.00 J**
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.50 U
Perfluorodecanoic acid (PFDA)		**3.10**	**3.60**	**1.50 J**	**2.80**	**2.40**	**2.50**
Perfluorododecanoic acid (PFDoA)		**0.800 J**	**1.10 J**	**0.610 J**	**1.70 J**	1.40 U	**2.20**
Perfluoroheptanesulfonic acid (PFHpS)		0.950 U	0.900 U	0.940 U	0.920 U	0.910 U	0.980 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.50 U
Perfluorohexane sulfonate (PFHxS)	39	1.90 U	0.900 U	0.940 U	0.920 U	0.910 U	0.980 U
Perfluorohexanoic acid (PFHxA)		0.950 U	0.900 U	0.940 U	0.920 U	0.910 U	0.980 U
Perfluorononanoic acid (PFNA)	5.9	**3.90**	**2.30**	**0.960 J**	**1.00 J**	**1.40 J**	1.50 U
Perfluorooctanesulfonamide (PFOSA)		2.90 U	2.70 U	2.80 U	2.80 U	2.70 U	2.90 U
Perfluorooctanesulfonic acid (PFOS)	4	2.90 U	2.70 U	2.80 U	2.80 U	2.70 U	2.90 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.50 U
Perfluoropentanoic acid (PFPeA)		**0.580 J**	**0.430 J**	0.940 U	**1.40 J**	0.910 U	**1.20 J**
Perfluorotetradecanoic acid (PFTeDA)		2.90 U	2.70 U	2.80 U	2.80 U	2.70 U	2.90 U
Perfluorotridecanoic acid (PFTrDA)		2.90 U	**0.880 J**	2.80 U	2.80 U	2.70 U	2.90 U
Perfluoroundecanoic acid (PFUnA)		**8.50**	**9.20**	**4.80**	**22.0**	**1.40 J**	**8.10**
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-586M1	MW-586M2	MW-587M1	MW-588M1	MW-588M2	MW-589M1
	Field Sample ID	MW-586M1_F20	MW-586M2_F20	MW-587M1_F20	MW-588M1_F20	MW-588M2_F20	MW-589M1_F20
	Sampling Depth	237.00 - 247.00	211.00 - 221.00	250.00 - 260.00	238.00 - 248.00	198.00 - 208.00	240.00 - 250.00
	Sampling Date	09/02/2020	09/02/2020	09/10/2020	08/27/2020	08/27/2020	09/02/2020
	SDG	320643521	320643521	320645641	320641331	320641331	320643521
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		18.0 U	19.0 U	19.0 U	19.0 U	18.0 U	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.20 U	9.60 U	9.40 U	9.30 U	9.20 U	9.00 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.20 U	9.60 U	9.40 U	9.30 U	9.20 U	9.00 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.20 U	9.60 U	9.40 U	9.30 U	9.20 U	9.00 U
Perfluorobutanesulfonic acid (PFBS)	600	0.920 U	0.960 U	0.940 U	0.930 U	**3.60**	0.900 U
Perfluorobutanoic acid (PFBA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.920 U	0.960 U	0.940 U	0.930 U	0.920 U	0.900 U
Perfluorododecanoic acid (PFDoA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.920 U	0.960 U	0.940 U	0.930 U	0.920 U	0.900 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	0.920 U	0.960 U	0.940 U	0.930 U	0.920 U	0.900 U
Perfluorohexanoic acid (PFHxA)		0.920 U	0.960 U	0.940 U	0.930 U	0.920 U	0.900 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		2.80 U	2.90 U	2.80 U	2.80 U	2.80 U	2.70 U
Perfluorooctanesulfonic acid (PFOS)	4	2.80 U	2.90 U	2.80 U	2.80 U	2.80 U	2.70 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	**0.600 J**
Perfluoropentanoic acid (PFPeA)		**0.490 J**	**0.490 J**	0.940 U	**0.420 J**	0.920 U	**0.600 J**
Perfluorotetradecanoic acid (PFTeDA)		2.80 U	2.90 U	2.80 U	2.80 U	2.80 U	2.70 U
Perfluorotridecanoic acid (PFTrDA)		2.80 U	2.90 U	2.80 U	2.80 U	2.80 U	2.70 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.600**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-589M2	MW-621M1	MW-621M2	MW-622M1	MW-622M2	MW-631M1
	Field Sample ID	MW-589M2_F20	MW-621M1_F20	MW-621M2_F20	MW-622M1_F20	MW-622M2_F20	MW-631M1_F20
	Sampling Depth	211.00 - 221.00	249.40 - 259.40	219.40 - 229.40	245.40 - 255.40	220.40 - 230.40	233.10 - 243.10
	Sampling Date	09/02/2020	08/26/2020	08/26/2020	09/01/2020	09/01/2020	08/26/2020
	SDG	320643521	320641331	320641331	320642411	320642411	320641331
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		19.0 U	19.0 U	19.0 U	19.0 U	19.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.40 U	9.60 U	9.40 U	9.30 U	9.40 U	9.60 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.40 U	9.60 U	9.40 U	9.30 U	9.40 U	9.60 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.40 U	9.60 U	9.40 U	9.30 U	9.40 U	9.60 U
Perfluorobutanesulfonic acid (PFBS)	600	0.940 U	0.960 U	0.940 U	0.930 U	0.940 U	0.960 U
Perfluorobutanoic acid (PFBA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.940 U	0.960 U	0.940 U	0.930 U	0.940 U	0.960 U
Perfluorododecanoic acid (PFDoA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.940 U	0.960 U	0.940 U	0.930 U	0.940 U	0.960 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	0.940 U	0.960 U	0.940 U	0.930 U	0.940 U	0.960 U
Perfluorohexanoic acid (PFHxA)		0.940 U	0.960 U	0.940 U	0.930 U	0.940 U	0.960 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		2.80 U	2.90 U	2.80 U	2.80 U	2.80 U	2.90 U
Perfluorooctanesulfonic acid (PFOS)	4	2.80 U	2.90 U	2.80 U	2.80 U	2.80 U	2.90 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoropentanoic acid (PFPeA)		0.940 U	**0.440 J**	0.940 U	**0.400 J**	0.940 U	**0.420 J**
Perfluorotetradecanoic acid (PFTeDA)		2.80 U	2.90 U	2.80 U	2.80 U	2.80 U	2.90 U
Perfluorotridecanoic acid (PFTrDA)		2.80 U	2.90 U	2.80 U	2.80 U	2.80 U	2.90 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

	Location	MW-631M2	MW-632M1	MW-632M2	MW-632M2	MW-640M1	MW-640M2
	Field Sample ID	MW-631M2_F20	MW-632M1_F20	MW-632M2_F20	MW-632M2_F20D	MW-640M1_F20	MW-640M2_F20
	Sampling Depth	200.10 - 210.10	254.50 - 264.50	229.50 - 239.50	229.50 - 239.50	246.00 - 256.00	216.00 - 226.00
	Sampling Date	08/26/2020	09/03/2020	09/03/2020	09/03/2020	09/03/2020	09/03/2020
	SDG	320641331	320643511	320643511	320643511	320643511	320643511
	Sample Type	**Normal**	**Normal**	**Normal**	**Field Duplicate**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		18.0 U	19.0 U	18.0 U	19.0 U	19.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.20 U	9.40 U	9.00 U	9.60 U	9.40 U	9.30 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.20 U	9.40 U	9.00 U	9.60 U	9.40 U	9.30 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.20 U	9.40 U	9.00 U	9.60 U	9.40 U	9.30 U
Perfluorobutanesulfonic acid (PFBS)	600	**8.50**	0.940 U	0.900 U	0.960 U	0.940 U	0.930 U
Perfluorobutanoic acid (PFBA)		**1.70 J**	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.920 U	0.940 U	0.900 U	0.960 U	0.940 U	0.930 U
Perfluorododecanoic acid (PFDoA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.920 U	0.940 U	0.900 U	0.960 U	0.940 U	0.930 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	1.80 U	0.940 U	0.900 U	0.960 U	**0.360 J**	0.930 U
Perfluorohexanoic acid (PFHxA)		**5.40**	0.940 U	0.900 U	0.960 U	0.940 U	0.930 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		2.80 U	2.80 U	2.70 U	2.90 U	2.80 U	2.80 U
Perfluorooctanesulfonic acid (PFOS)	4	2.80 U	2.80 U	2.70 U	2.90 U	2.80 U	2.80 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoropentanoic acid (PFPeA)		**1.90**	**0.450 J**	0.900 U	0.960 U	**0.630 J**	0.930 U
Perfluorotetradecanoic acid (PFTeDA)		2.80 U	2.80 U	2.70 U	2.90 U	2.80 U	2.80 U
Perfluorotridecanoic acid (PFTrDA)		2.80 U	2.80 U	2.70 U	2.90 U	2.80 U	2.80 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-703M1	MW-703M2	MW-704M1	MW-704M2
	Field Sample ID	MW-703M1_F20	MW-703M2_F20	MW-704M1_F20	MW-704M2_F20
	Sampling Depth	248.00 - 258.00	224.10 - 234.10	244.00 - 254.00	217.80 - 227.80
	Sampling Date	08/31/2020	08/31/2020	09/01/2020	09/01/2020
	SDG	320642421	320642421	320642411	320642411
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		18.0 U	18.0 U	19.0 U	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.10 U	9.20 U	9.70 U	9.20 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.10 U	9.20 U	9.70 U	9.20 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.10 U	9.20 U	9.70 U	9.20 U
Perfluorobutanesulfonic acid (PFBS)	600	0.910 U	0.920 U	0.970 U	0.920 U
Perfluorobutanoic acid (PFBA)		1.40 U	1.40 U	**1.40 J**	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.50 U	1.40 U
Perfluorodecanoic acid (PFDA)		**3.20**	**1.60 J**	**1.50 J**	**1.90**
Perfluorododecanoic acid (PFDoA)		1.40 U	1.40 U	1.50 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.910 U	0.920 U	0.970 U	0.920 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.40 U	1.50 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	0.910 U	0.920 U	0.970 U	0.920 U
Perfluorohexanoic acid (PFHxA)		0.910 U	0.920 U	0.970 U	0.920 U
Perfluorononanoic acid (PFNA)	5.9	**1.80**	**0.900 J**	1.50 U	**0.890 J**
Perfluorooctanesulfonamide (PFOSA)		**1.30 J**	**2.20 J**	2.90 U	2.80 U
Perfluorooctanesulfonic acid (PFOS)	4	2.70 U	2.70 U	2.90 U	2.80 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.40 U	1.50 U	1.40 U
Perfluoropentanoic acid (PFPeA)		**0.650 J**	**0.830 J**	**1.10 J**	**0.400 J**
Perfluorotetradecanoic acid (PFTeDA)		2.70 U	2.70 U	2.90 U	2.80 U
Perfluorotridecanoic acid (PFTrDA)		2.70 U	2.70 U	2.90 U	2.80 U
Perfluoroundecanoic acid (PFUnA)		**0.650 J**	1.40 U	**1.00 J**	1.40 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	J2EW0002	J2EW0002	J2EW2-MW2-B	J2EW2-MW2-C	MW-293M2	MW-293M2
	Field Sample ID	J2EW0002_F20	J2EW0002_F20D	J2EW2-MW2-B_F20	J2EW2-MW2-C_F20	MW-293M2_F20	MW-293M2_F20D
	Sampling Depth	198.00 - 233.00	198.00 - 233.00	209.79 - 219.79	243.83 - 253.81	196.42 - 206.42	196.42 - 206.42
	Sampling Date	09/10/2020	09/10/2020	09/09/2020	09/09/2020	08/27/2020	08/27/2020
	SDG	320645641	320645641	320645661	320645661	320641331	320641331
	Sample Type	**Normal**	**Field Duplicate**	**Normal**	**Normal**	**Normal**	**Field Duplicate**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**9.80**	**9.30**	**0.00**	**0.00**	**6.90**	**4.50**
§Sum of All Compounds Detected		**14.6**	**14.2**	**0.00**	**0.00**	**40.8**	**43.5**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-300M1	MW-300M2	MW-300M3	MW-302M2	MW-305M1	MW-348M2
	Field Sample ID	MW-300M1_F20	MW-300M2_F20	MW-300M3_F20	MW-302M2_F20	MW-305M1_F20	MW-348M2_F20
	Sampling Depth	293.03 - 303.02	197.23 - 207.23	135.31 - 145.31	194.35 - 204.43	202.82 - 212.82	206.54 - 216.54
	Sampling Date	09/08/2020	09/08/2020	09/08/2020	08/27/2020	08/31/2020	08/31/2020
	SDG	320644781	320644781	320644781	320641331	320642421	320642421
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**7.00**	**5.90**	**0.00**	**2.80**	**2.40**	**2.50**
§Sum of All Compounds Detected		**16.9**	**17.5**	**8.42**	**28.9**	**5.20**	**15.0**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-586M1	MW-586M2	MW-587M1	MW-588M1	MW-588M2	MW-589M1
	Field Sample ID	MW-586M1_F20	MW-586M2_F20	MW-587M1_F20	MW-588M1_F20	MW-588M2_F20	MW-589M1_F20
	Sampling Depth	237.00 - 247.00	211.00 - 221.00	250.00 - 260.00	238.00 - 248.00	198.00 - 208.00	240.00 - 250.00
	Sampling Date	09/02/2020	09/02/2020	09/10/2020	08/27/2020	08/27/2020	09/02/2020
	SDG	320643521	320643521	320645641	320641331	320641331	320643521
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
§Sum of All Compounds Detected		**0.490**	**0.490**	**0.00**	**0.420**	**3.60**	**1.20**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-589M2	MW-621M1	MW-621M2	MW-622M1	MW-622M2	MW-631M1
	Field Sample ID	MW-589M2_F20	MW-621M1_F20	MW-621M2_F20	MW-622M1_F20	MW-622M2_F20	MW-631M1_F20
	Sampling Depth	211.00 - 221.00	249.40 - 259.40	219.40 - 229.40	245.40 - 255.40	220.40 - 230.40	233.10 - 243.10
	Sampling Date	09/02/2020	08/26/2020	08/26/2020	09/01/2020	09/01/2020	08/26/2020
	SDG	320643521	320641331	320641331	320642411	320642411	320641331
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
§Sum of All Compounds Detected		**0.00**	**0.440**	**0.00**	**0.400**	**0.00**	**0.420**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-631M2	MW-632M1	MW-632M2	MW-632M2	MW-640M1	MW-640M2
	Field Sample ID	MW-631M2_F20	MW-632M1_F20	MW-632M2_F20	MW-632M2_F20D	MW-640M1_F20	MW-640M2_F20
	Sampling Depth	200.10 - 210.10	254.50 - 264.50	229.50 - 239.50	229.50 - 239.50	246.00 - 256.00	216.00 - 226.00
	Sampling Date	08/26/2020	09/03/2020	09/03/2020	09/03/2020	09/03/2020	09/03/2020
	SDG	320641331	320643511	320643511	320643511	320643511	320643511
	Sample Type	**Normal**	**Normal**	**Normal**	**Field Duplicate**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
§Sum of All Compounds Detected		**17.5**	**0.450**	**0.00**	**0.00**	**0.990**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-703M1	MW-703M2	MW-704M1	MW-704M2
	Field Sample ID	MW-703M1_F20	MW-703M2_F20	MW-704M1_F20	MW-704M2_F20
	Sampling Depth	248.00 - 258.00	224.10 - 234.10	244.00 - 254.00	217.80 - 227.80
	Sampling Date	08/31/2020	08/31/2020	09/01/2020	09/01/2020
	SDG	320642421	320642421	320642411	320642411
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**5.00**	**0.00**	**0.00**	**1.90**
§Sum of All Compounds Detected		**7.60**	**5.53**	**5.00**	**3.19**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

KGS 2020 J3 Range SPM Fall - J3 Range

	Location	MW-143M2	MW-143M3	MW-163S	MW-163S	MW-181S	MW-193M1
	Field Sample ID	MW-143M2_F20	MW-143M3_F20	MW-163S_F20	MW-163S_F20D	MW-181S_F20	MW-193M1_F20
	Sampling Depth	117.00 - 122.00	107.00 - 112.00	38.00 - 48.00	38.00 - 48.00	32.25 - 42.25	57.50 - 62.50
	Sampling Date	07/20/2020	07/21/2020	07/16/2020	07/16/2020	07/21/2020	07/16/2020
	SDG	320629171	320629171	320627321	320627321	320629171	320627321
	Sample Type	**Normal**	**Normal**	**Normal**	**Field Duplicate**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		19.0 U	19.0 U	19.0 U	20.0 U	19.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.40 U	9.50 U	9.70 U	9.80 U	9.40 U	9.60 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.40 U	9.50 U	9.70 U	9.80 U	9.40 U	9.60 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.40 U	9.50 U	9.70 U	9.80 U	9.40 U	9.60 U
Perfluorobutanesulfonic acid (PFBS)	600	**1.20 J**	**0.620 J**	0.970 U	0.980 U	0.940 U	0.960 U
Perfluorobutanoic acid (PFBA)		1.40 U	1.40 U	**1.00 J**	**1.00 J**	1.40 U	**0.570 J**
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.50 U	1.50 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.940 U	0.950 U	0.970 U	0.980 U	0.940 U	0.960 U
Perfluorododecanoic acid (PFDoA)		1.40 U	1.40 U	1.50 U	1.50 U	1.40 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.940 U	0.950 U	0.970 U	0.980 U	0.940 U	0.960 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.40 U	1.50 U	1.50 U	1.40 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	**26.0**	**4.20**	1.90 U	2.00 U	1.90 U	1.90 U
Perfluorohexanoic acid (PFHxA)		0.940 U	0.950 U	0.970 U	0.980 U	0.940 U	0.960 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.40 U	1.50 U	1.50 U	1.40 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		2.80 U	2.80 U	2.90 U	2.90 U	2.80 U	2.90 U
Perfluorooctanesulfonic acid (PFOS)	4	2.80 U	2.80 U	**4.90**	**5.00**	**16.0**	2.90 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.40 U	**0.840 J**	**0.940 J**	**0.510 J**	1.40 U
Perfluoropentanoic acid (PFPeA)		0.940 U	0.950 U	0.970 U	**0.460 J**	0.940 U	**0.490 J**
Perfluorotetradecanoic acid (PFTeDA)		2.80 U	2.80 U	2.90 U	2.90 U	2.80 U	2.90 U
Perfluorotridecanoic acid (PFTrDA)		2.80 U	2.80 U	2.90 U	2.90 U	2.80 U	2.90 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.40 U	1.50 U	1.50 U	1.40 U	1.40 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**5.74**	**5.94**	**16.5**	**0.00**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**26.0**	**4.20**	**4.90**	**5.00**	**16.0**	**0.00**

	Location	MW-193S	MW-196M1	MW-196S	MW-197M1	MW-197M2	MW-197M3
	Field Sample ID	MW-193S_F20	MW-196M1_F20	MW-196S_F20	MW-197M1_F20	MW-197M2_F20	MW-197M3_F20
	Sampling Depth	32.50 - 37.50	45.00 - 50.00	32.00 - 37.00	120.00 - 125.00	80.20 - 85.20	60.20 - 65.20
	Sampling Date	07/16/2020	07/23/2020	07/23/2020	07/20/2020	07/20/2020	07/20/2020
	SDG	320627321	320630121	320630121	320629171	320629171	320629171
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		18.0 U	18.0 U	18.0 U	19.0 U	19.0 U	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.20 U	9.20 U	9.00 U	9.40 U	9.30 U	9.20 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.20 U	9.20 U	9.00 U	9.40 U	9.30 U	9.20 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.20 U	9.20 U	9.00 U	9.40 U	9.30 U	9.20 U
Perfluorobutanesulfonic acid (PFBS)	600	**2.20**	0.920 U	0.900 U	0.940 U	**1.80 J**	0.920 U
Perfluorobutanoic acid (PFBA)		**1.20 J**	1.80 U	1.80 U	1.40 U	**4.90**	**1.50 J**
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.30 U	1.40 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.920 U	**0.550 J**	0.900 U	0.940 U	0.930 U	0.920 U
Perfluorododecanoic acid (PFDoA)		1.40 U	1.40 U	1.30 U	1.40 U	1.40 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.920 U	0.920 U	0.900 U	0.940 U	0.930 U	0.920 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.40 U	1.30 U	1.40 U	**4.00**	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	**19.0**	**1.00 J**	0.900 U	1.90 U	**37.0**	1.80 U
Perfluorohexanoic acid (PFHxA)		**0.830 J**	**0.950 J**	**0.510 J**	0.940 U	**8.40**	0.920 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.40 U	1.30 U	1.40 U	1.40 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		2.80 U	2.80 U	2.70 U	2.80 U	2.80 U	2.80 U
Perfluorooctanesulfonic acid (PFOS)	4	2.80 U	**1.10 J**	**3.80**	2.80 U	**10.0**	**1.00 J**
Perfluorooctanoic acid (PFOA)	6	1.40 U	**2.10**	**1.10 J**	**0.550 J**	**3.10**	**0.990 J**
Perfluoropentanoic acid (PFPeA)		**1.30 J**	**0.660 J**	**0.440 J**	**0.400 J**	**6.50**	**0.430 J**
Perfluorotetradecanoic acid (PFTeDA)		2.80 U	2.80 U	2.70 U	2.80 U	2.80 U	2.80 U
Perfluorotridecanoic acid (PFTrDA)		2.80 U	2.80 U	2.70 U	2.80 U	2.80 U	2.80 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.40 U	1.30 U	1.40 U	1.40 U	1.40 U
†PFOS + PFOA (EPA)		**0.00**	**3.20**	**4.90**	**0.550**	**13.1**	**1.99**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**19.0**	**2.10**	**3.80**	**0.00**	**54.1**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-197M3	MW-198M1	MW-198M2	MW-198M3	MW-198M4	MW-232M1
	Field Sample ID	MW-197M3_F20D	MW-198M1_F20	MW-198M2_F20	MW-198M3_F20	MW-198M4_F20	MW-232M1_F20
	Sampling Depth	60.20 - 65.20	150.00 - 155.00	120.00 - 125.00	100.00 - 105.00	70.00 - 75.00	77.50 - 82.50
	Sampling Date	07/20/2020	07/15/2020	07/15/2020	07/15/2020	07/15/2020	07/16/2020
	SDG	320629171	320627321	320627321	320627321	320627321	320627321
	Sample Type	**Field Duplicate**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		18.0 U	19.0 U	19.0 U	19.0 U	19.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.20 U	9.50 U	9.50 U	9.50 U	9.50 U	9.50 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.20 U	9.50 U	9.50 U	9.50 U	9.50 U	9.50 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.20 U	9.50 U	9.50 U	9.50 U	9.50 U	9.50 U
Perfluorobutanesulfonic acid (PFBS)	600	0.920 U	0.950 U	0.950 U	0.950 U	0.950 U	0.950 U
Perfluorobutanoic acid (PFBA)		**1.40 J**	1.40 U	**0.740 J**	**0.740 J**	**6.50**	**2.20**
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.920 U	0.950 U	0.950 U	0.950 U	0.950 U	0.950 U
Perfluorododecanoic acid (PFDoA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.920 U	0.950 U	0.950 U	0.950 U	0.950 U	0.950 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.40 U	1.40 U	1.40 U	**1.80 J**	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	1.80 U	0.950 U	0.950 U	1.90 U	**4.40**	0.950 U
Perfluorohexanoic acid (PFHxA)		**0.450 J**	0.950 U	0.950 U	0.950 U	**3.70**	0.950 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		2.80 U	2.80 U	2.90 U	2.80 U	2.80 U	2.90 U
Perfluorooctanesulfonic acid (PFOS)	4	2.80 U	2.80 U	2.90 U	2.80 U	**2.30 J**	2.90 U
Perfluorooctanoic acid (PFOA)	6	**1.10 J**	1.40 U	1.40 U	1.40 U	**2.30**	**0.640 J**
Perfluoropentanoic acid (PFPeA)		**0.440 J**	**0.460 J**	0.950 U	0.950 U	**2.80**	**0.420 J**
Perfluorotetradecanoic acid (PFTeDA)		2.80 U	2.80 U	2.90 U	2.80 U	2.80 U	2.90 U
Perfluorotridecanoic acid (PFTrDA)		2.80 U	2.80 U	2.90 U	2.80 U	2.80 U	2.90 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
†PFOS + PFOA (EPA)		**1.10**	**0.00**	**0.00**	**0.00**	**4.60**	**0.640**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**6.70**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-232M2	MW-30
	Field Sample ID	MW-232M2_F20	MW-30_F20
	Sampling Depth	61.00 - 66.00	26.00 - 36.00
	Sampling Date	07/16/2020	07/21/2020
	SDG	320627321	320629171
	Sample Type	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		20.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		10.0 U	9.40 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		10.0 U	9.40 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		10.0 U	9.40 U
Perfluorobutanesulfonic acid (PFBS)	600	1.00 U	0.940 U
Perfluorobutanoic acid (PFBA)		**3.20**	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.50 U	1.40 U
Perfluorodecanoic acid (PFDA)		1.00 U	0.940 U
Perfluorododecanoic acid (PFDoA)		1.50 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		1.00 U	0.940 U
Perfluoroheptanoic acid (PFHpA)		1.50 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	1.00 U	0.940 U
Perfluorohexanoic acid (PFHxA)		1.00 U	0.940 U
Perfluorononanoic acid (PFNA)	5.9	1.50 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		3.00 U	2.80 U
Perfluorooctanesulfonic acid (PFOS)	4	3.00 U	**15.0**
Perfluorooctanoic acid (PFOA)	6	**1.10 J**	**0.790 J**
Perfluoropentanoic acid (PFPeA)		**0.520 J**	0.940 U
Perfluorotetradecanoic acid (PFTeDA)		3.00 U	2.80 U
Perfluorotridecanoic acid (PFTrDA)		3.00 U	2.80 U
Perfluoroundecanoic acid (PFUnA)		1.50 U	1.40 U
†PFOS + PFOA (EPA)		**1.10**	**15.8**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**15.0**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-143M2	MW-143M3	MW-163S	MW-163S	MW-181S	MW-193M1
	Field Sample ID	MW-143M2_F20	MW-143M3_F20	MW-163S_F20	MW-163S_F20D	MW-181S_F20	MW-193M1_F20
	Sampling Depth	117.00 - 122.00	107.00 - 112.00	38.00 - 48.00	38.00 - 48.00	32.25 - 42.25	57.50 - 62.50
	Sampling Date	07/20/2020	07/21/2020	07/16/2020	07/16/2020	07/21/2020	07/16/2020
	SDG	320629171	320629171	320627321	320627321	320629171	320627321
	Sample Type	**Normal**	**Normal**	**Normal**	**Field Duplicate**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
§Sum of All Compounds Detected		**27.2**	**4.82**	**6.74**	**7.40**	**16.5**	**1.06**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-193S	MW-196M1	MW-196S	MW-197M1	MW-197M2	MW-197M3
	Field Sample ID	MW-193S_F20	MW-196M1_F20	MW-196S_F20	MW-197M1_F20	MW-197M2_F20	MW-197M3_F20
	Sampling Depth	32.50 - 37.50	45.00 - 50.00	32.00 - 37.00	120.00 - 125.00	80.20 - 85.20	60.20 - 65.20
	Sampling Date	07/16/2020	07/23/2020	07/23/2020	07/20/2020	07/20/2020	07/20/2020
	SDG	320627321	320630121	320630121	320629171	320629171	320629171
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
§Sum of All Compounds Detected		**24.5**	**6.36**	**5.85**	**0.950**	**75.7**	**3.92**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-197M3	MW-198M1	MW-198M2	MW-198M3	MW-198M4	MW-232M1
	Field Sample ID	MW-197M3_F20D	MW-198M1_F20	MW-198M2_F20	MW-198M3_F20	MW-198M4_F20	MW-232M1_F20
	Sampling Depth	60.20 - 65.20	150.00 - 155.00	120.00 - 125.00	100.00 - 105.00	70.00 - 75.00	77.50 - 82.50
	Sampling Date	07/20/2020	07/15/2020	07/15/2020	07/15/2020	07/15/2020	07/16/2020
	SDG	320629171	320627321	320627321	320627321	320627321	320627321
	Sample Type	**Field Duplicate**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
§Sum of All Compounds Detected		**3.39**	**0.460**	**0.740**	**0.740**	**23.8**	**3.26**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-232M2	MW-30
	Field Sample ID	MW-232M2_F20	MW-30_F20
	Sampling Depth	61.00 - 66.00	26.00 - 36.00
	Sampling Date	07/16/2020	07/21/2020
	SDG	320627321	320629171
	Sample Type	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)
§Sum of All Compounds Detected		**4.82**	**15.8**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

KGS 2021 J2 North SPM Fall - J2 Range Northern

	Location	J2EW0002	J2EW0002	J2EW2-MW2-B	J2EW2-MW2-C	MW-293M2	MW-293M2
	Field Sample ID	J2EW0002_F21	J2EW0002_F21D	J2EW2-MW2-B_F21	J2EW2-MW2-C_F21	MW-293M2_F21	MW-293M2_F21D
	Sampling Depth	198.00 - 233.00	198.00 - 233.00	209.79 - 219.79	243.83 - 253.81	0.00 - 0.00	0.00 - 0.00
	Sampling Date	09/27/2021	09/27/2021	09/15/2021	09/15/2021	09/08/2021	09/08/2021
	SDG	320796651	320796651	320791141	320791141	320787611	320787611
	Sample Type	**Normal**	**Field Duplicate**	**Normal**	**Normal**	**Normal**	**Field Duplicate**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		**6.70 J**	**6.70 J**	19.0 U	20.0 U	18.0 U	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.40 U	9.00 U	9.50 U	10.0 U	9.20 U	8.90 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.40 U	9.00 U	9.50 U	10.0 U	9.20 U	8.90 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.40 U	9.00 U	9.50 U	10.0 U	9.20 U	8.90 U
Perfluorobutanesulfonic acid (PFBS)	600	0.940 U	0.900 U	0.950 U	1.00 U	**3.90**	**3.80**
Perfluorobutanoic acid (PFBA)		1.40 U	1.30 U	1.40 U	1.50 U	**0.840 J**	**1.10 J**
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.30 U	1.40 U	1.50 U	1.40 U	1.30 U
Perfluorodecanoic acid (PFDA)		0.940 U	0.900 U	0.950 U	1.00 U	**3.20**	**2.80**
Perfluorododecanoic acid (PFDoA)		1.40 U	1.30 U	1.40 U	1.50 U	**2.40**	**2.30**
Perfluoroheptanesulfonic acid (PFHpS)		0.940 U	0.900 U	0.950 U	1.00 U	0.920 U	0.890 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	**0.550 J**	1.40 U	1.50 U	1.40 U	1.30 U
Perfluorohexane sulfonate (PFHxS)	39	**8.10**	**7.70**	0.950 U	1.00 U	0.920 U	0.890 U
Perfluorohexanoic acid (PFHxA)		**0.820 J**	**0.770 J**	0.950 U	1.00 U	**1.30 J**	**1.10 J**
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.30 U	1.40 U	1.50 U	**1.30 J**	**1.10 J**
Perfluorooctanesulfonamide (PFOSA)		2.80 U	2.70 U	2.90 U	3.10 U	2.80 U	2.70 U
Perfluorooctanesulfonic acid (PFOS)	4	**1.30 J**	**1.10 J**	2.90 U	3.10 U	2.80 U	2.70 U
Perfluorooctanoic acid (PFOA)	6	**1.80 J**	**1.20 J**	1.40 U	1.50 U	1.40 U	1.30 U
Perfluoropentanoic acid (PFPeA)		**0.680 J**	**0.640 J**	0.950 U	1.00 U	**1.10 J**	**1.00 J**
Perfluorotetradecanoic acid (PFTeDA)		2.80 U	2.70 U	2.90 U	3.10 U	2.80 U	2.70 U
Perfluorotridecanoic acid (PFTrDA)		2.80 U	2.70 U	2.90 U	3.10 U	**0.760 J**	2.70 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.30 U	1.40 U	1.50 U	**23.0**	**22.0**
†PFOS + PFOA (EPA)		**3.10**	**2.30**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-300M1	MW-300M1	MW-300M2	MW-300M3	MW-302M2	MW-302M2
	Field Sample ID	MW-300M1_F21	MW-300M1_F21D	MW-300M2_F21	MW-300M3_F21	MW-302M2_F21	MW-302M2_F21D
	Sampling Depth	293.03 - 303.02	293.03 - 303.02	197.23 - 207.23	135.31 - 145.31	194.35 - 204.43	194.35 - 204.43
	Sampling Date	09/21/2021	09/21/2021	09/21/2021	09/21/2021	09/13/2021	09/13/2021
	SDG	320793351	320793351	320793351	320793351	320790821	320790821
	Sample Type	**Normal**	**Field Duplicate**	**Normal**	**Normal**	**Normal**	**Field Duplicate**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		19.0 U	19.0 U	19.0 U	19.0 U	19.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.70 U	9.60 U	9.30 U	9.50 U	9.60 U	9.40 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.70 U	9.60 U	9.30 U	9.50 U	9.60 U	9.40 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.70 U	9.60 U	9.30 U	9.50 U	9.60 U	9.40 U
Perfluorobutanesulfonic acid (PFBS)	600	0.970 U	0.960 U	0.930 U	0.950 U	0.960 U	0.940 U
Perfluorobutanoic acid (PFBA)		1.50 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.50 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		**3.40**	**3.60**	**4.00**	**1.70 J**	**2.60**	**2.50**
Perfluorododecanoic acid (PFDoA)		**0.520 J**	**0.680 J**	**1.10 J**	**0.710 J**	**2.80**	**3.00**
Perfluoroheptanesulfonic acid (PFHpS)		0.970 U	0.960 U	0.930 U	0.950 U	0.960 U	0.940 U
Perfluoroheptanoic acid (PFHpA)		1.50 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	0.970 U	0.960 U	0.930 U	**0.440 J**	0.960 U	0.940 U
Perfluorohexanoic acid (PFHxA)		0.970 U	0.960 U	0.930 U	0.950 U	0.960 U	0.940 U
Perfluorononanoic acid (PFNA)	5.9	**4.80**	**4.80**	**3.60**	**2.10**	1.40 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		2.90 U	2.90 U	2.80 U	2.90 U	2.90 U	2.80 U
Perfluorooctanesulfonic acid (PFOS)	4	2.90 U	2.90 U	2.80 U	2.90 U	2.90 U	2.80 U
Perfluorooctanoic acid (PFOA)	6	1.50 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoropentanoic acid (PFPeA)		0.970 U	0.960 U	0.930 U	0.950 U	0.960 U	0.940 U
Perfluorotetradecanoic acid (PFTeDA)		2.90 U	2.90 U	2.80 U	2.90 U	2.90 U	2.80 U
Perfluorotridecanoic acid (PFTrDA)		2.90 U	2.90 U	**0.700 J**	**0.840 J**	**1.10 J**	**1.20 J**
Perfluoroundecanoic acid (PFUnA)		**8.30**	**8.60**	**7.80**	**4.40**	**27.0**	**27.0**
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-305M1	MW-330M1	MW-330M2	MW-330M3	MW-340D	MW-340M1
	Field Sample ID	MW-305M1_F21	MW-330M1_F21	MW-330M2_F21	MW-330M3_F21	MW-340D_F21	MW-340M1_F21
	Sampling Depth	202.82 - 212.82	313.10 - 323.13	238.01 - 248.04	154.97 - 164.99	329.60 - 339.60	255.85 - 265.85
	Sampling Date	09/14/2021	09/17/2021	09/17/2021	09/17/2021	09/23/2021	09/23/2021
	SDG	320790821	320791141	320791141	320791141	320793861	320793861
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		19.0 U	19.0 U	19.0 U	20.0 U	19.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.70 U	9.60 U	9.70 U	9.90 U	9.50 U	9.60 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.70 U	9.60 U	9.70 U	9.90 U	9.50 U	9.60 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.70 U	9.60 U	9.70 U	9.90 U	9.50 U	9.60 U
Perfluorobutanesulfonic acid (PFBS)	600	0.970 U	0.960 U	0.970 U	0.990 U	0.950 U	0.960 U
Perfluorobutanoic acid (PFBA)		1.50 U	**1.60 J**	**0.890 J**	1.50 U	1.40 U	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.50 U	1.40 U	1.50 U	1.50 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		**3.60**	**38.0**	**8.90**	**19.0**	**18.0**	**2.30**
Perfluorododecanoic acid (PFDoA)		1.50 U	**2.50**	**2.20**	**0.810 J**	**1.80 J**	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.970 U	0.960 U	0.970 U	0.990 U	0.950 U	0.960 U
Perfluoroheptanoic acid (PFHpA)		1.50 U	**1.10 J**	1.50 U	1.50 U	1.40 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	0.970 U	0.960 U	0.970 U	0.990 U	0.950 U	0.960 U
Perfluorohexanoic acid (PFHxA)		0.970 U	**0.770 J**	0.970 U	0.990 U	0.950 U	0.960 U
Perfluorononanoic acid (PFNA)	5.9	**2.20**	**16.0**	**12.0**	**25.0**	**14.0**	**1.60 J**
Perfluorooctanesulfonamide (PFOSA)		2.90 U	2.90 U	2.90 U	3.00 U	2.80 U	2.90 U
Perfluorooctanesulfonic acid (PFOS)	4	2.90 U	2.90 U	2.90 U	3.00 U	2.80 U	2.90 U
Perfluorooctanoic acid (PFOA)	6	1.50 U	**0.660 J**	**0.650 J**	1.50 U	1.40 U	1.40 U
Perfluoropentanoic acid (PFPeA)		0.970 U	**2.50**	**1.20 J**	0.990 U	0.950 U	0.960 U
Perfluorotetradecanoic acid (PFTeDA)		2.90 U	**1.10 J**	2.90 U	3.00 U	**0.840 J**	2.90 U
Perfluorotridecanoic acid (PFTrDA)		2.90 U	**1.60 J**	**2.10 J**	3.00 U	**1.20 J**	2.90 U
Perfluoroundecanoic acid (PFUnA)		**3.30**	**23.0**	**9.60**	**8.90**	**18.0**	**1.50 J**
†PFOS + PFOA (EPA)		**0.00**	**0.660**	**0.650**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-340M2	MW-345M1	MW-345M2	MW-348M2	MW-586M1	MW-586M2
	Field Sample ID	MW-340M2_F21	MW-345M1_F21	MW-345M2_F21	MW-348M2_F21	MW-586M1_F21	MW-586M2_F21
	Sampling Depth	215.83 - 225.08	311.50 - 321.50	236.62 - 246.62	206.54 - 216.54	237.00 - 247.00	211.00 - 221.00
	Sampling Date	09/23/2021	09/20/2021	09/20/2021	09/07/2021	09/09/2021	09/09/2021
	SDG	320793861	320793351	320793351	320787611	320787751	320787751
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		19.0 U	18.0 U	20.0 U	18.0 U	19.0 U	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.50 U	9.20 U	9.90 U	8.90 U	9.30 U	9.10 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.50 U	9.20 U	9.90 U	8.90 U	9.30 U	9.10 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.50 U	9.20 U	9.90 U	8.90 U	9.30 U	9.10 U
Perfluorobutanesulfonic acid (PFBS)	600	0.950 U	0.920 U	0.990 U	0.890 U	0.930 U	0.910 U
Perfluorobutanoic acid (PFBA)		1.40 U	1.40 U	**0.790 J**	1.30 U	1.40 U	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.50 U	1.30 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		**1.60 J**	**56.0**	**2.90**	**2.40**	0.930 U	0.910 U
Perfluorododecanoic acid (PFDoA)		1.40 U	**3.40**	**0.760 J**	**2.40**	1.40 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.950 U	0.920 U	0.990 U	0.890 U	0.930 U	0.910 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	**0.910 J**	1.50 U	1.30 U	1.40 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	0.950 U	**0.410 J**	**0.810 J**	0.890 U	0.930 U	0.910 U
Perfluorohexanoic acid (PFHxA)		0.950 U	0.920 U	0.990 U	0.890 U	0.930 U	0.910 U
Perfluorononanoic acid (PFNA)	5.9	**4.00**	**14.0**	**6.80**	1.30 U	1.40 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		2.80 U	2.70 U	3.00 U	2.70 U	2.80 U	2.70 U
Perfluorooctanesulfonic acid (PFOS)	4	2.80 U	2.70 U	**1.20 J**	2.70 U	2.80 U	2.70 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	**1.10 J**	**0.580 J**	1.30 U	1.40 U	1.40 U
Perfluoropentanoic acid (PFPeA)		0.950 U	**0.480 J**	**0.960 J**	0.890 U	0.930 U	0.910 U
Perfluorotetradecanoic acid (PFTeDA)		2.80 U	**0.930 J**	3.00 U	2.70 U	2.80 U	2.70 U
Perfluorotridecanoic acid (PFTrDA)		2.80 U	**1.80 J**	**0.840 J**	**0.740 J**	2.80 U	2.70 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	**32.0**	**3.60**	**8.70**	1.40 U	1.40 U
†PFOS + PFOA (EPA)		**0.00**	**1.10**	**1.78**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-587M1	MW-588M1	MW-588M2	MW-589M1	MW-589M2	MW-612M1
	Field Sample ID	MW-587M1_F21	MW-588M1_F21	MW-588M2_F21	MW-589M1_F21	MW-589M2_F21	MW-612M1_F21
	Sampling Depth	250.00 - 260.00	238.00 - 248.00	198.00 - 208.00	240.00 - 250.00	211.00 - 221.00	297.00 - 307.00
	Sampling Date	08/24/2021	09/08/2021	09/08/2021	09/09/2021	09/09/2021	09/14/2021
	SDG	320781081	320787611	320787611	320787751	320787751	320790821
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		18.0 U	19.0 U	18.0 U	19.0 U	19.0 U	20.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.20 U	9.30 U	9.10 U	9.40 U	9.40 U	9.80 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.20 U	9.30 U	9.10 U	9.40 U	9.40 U	9.80 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.20 U	9.30 U	9.10 U	9.40 U	9.40 U	9.80 U
Perfluorobutanesulfonic acid (PFBS)	600	0.920 U	0.930 U	**1.70 J**	0.940 U	0.940 U	0.980 U
Perfluorobutanoic acid (PFBA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.50 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.50 U
Perfluorodecanoic acid (PFDA)		0.920 U	0.930 U	0.910 U	0.940 U	0.940 U	0.980 U
Perfluorododecanoic acid (PFDoA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.50 U
Perfluoroheptanesulfonic acid (PFHpS)		0.920 U	0.930 U	0.910 U	0.940 U	0.940 U	0.980 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.50 U
Perfluorohexane sulfonate (PFHxS)	39	0.920 U	0.930 U	0.910 U	0.940 U	0.940 U	0.980 U
Perfluorohexanoic acid (PFHxA)		0.920 U	0.930 U	0.910 U	0.940 U	0.940 U	0.980 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.50 U
Perfluorooctanesulfonamide (PFOSA)		2.80 U	2.80 U	2.70 U	2.80 U	2.80 U	3.00 U
Perfluorooctanesulfonic acid (PFOS)	4	2.80 U	2.80 U	2.70 U	2.80 U	2.80 U	3.00 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.40 U	1.40 U	**0.570 J**	1.40 U	1.50 U
Perfluoropentanoic acid (PFPeA)		0.920 U	0.930 U	0.910 U	0.940 U	0.940 U	0.980 U
Perfluorotetradecanoic acid (PFTeDA)		2.80 U	2.80 U	2.70 U	2.80 U	2.80 U	3.00 U
Perfluorotridecanoic acid (PFTrDA)		2.80 U	2.80 U	2.70 U	2.80 U	2.80 U	3.00 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.50 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.570**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-612M2	MW-613M1	MW-613M2	MW-621M1	MW-621M2	MW-622M1
	Field Sample ID	MW-612M2_F21	MW-613M1_F21	MW-613M2_F21	MW-621M1_F21	MW-621M2_F21	MW-622M1_F21
	Sampling Depth	267.00 - 277.00	267.10 - 277.10	246.10 - 256.10	249.40 - 259.40	219.40 - 229.40	245.40 - 255.40
	Sampling Date	09/14/2021	09/17/2021	09/17/2021	09/08/2021	09/08/2021	09/13/2021
	SDG	320790821	320791141	320791141	320787611	320787611	320790821
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		19.0 U	19.0 U	19.0 U	19.0 U	18.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.30 U	9.40 U	9.40 U	9.30 U	8.90 U	9.40 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.30 U	9.40 U	9.40 U	9.30 U	8.90 U	9.40 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.30 U	9.40 U	9.40 U	9.30 U	8.90 U	9.40 U
Perfluorobutanesulfonic acid (PFBS)	600	0.930 U	0.940 U	0.940 U	0.930 U	0.890 U	0.940 U
Perfluorobutanoic acid (PFBA)		1.40 U	1.40 U	1.40 U	1.40 U	1.30 U	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.40 U	1.40 U	1.30 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.930 U	0.940 U	0.940 U	0.930 U	0.890 U	0.940 U
Perfluorododecanoic acid (PFDoA)		1.40 U	1.40 U	1.40 U	1.40 U	1.30 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.930 U	0.940 U	0.940 U	0.930 U	0.890 U	0.940 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.40 U	1.40 U	1.40 U	1.30 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	0.930 U	0.940 U	0.940 U	0.930 U	0.890 U	0.940 U
Perfluorohexanoic acid (PFHxA)		0.930 U	0.940 U	0.940 U	0.930 U	0.890 U	0.940 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.40 U	1.40 U	1.40 U	1.30 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		2.80 U	2.80 U	2.80 U	2.80 U	2.70 U	2.80 U
Perfluorooctanesulfonic acid (PFOS)	4	2.80 U	2.80 U	2.80 U	2.80 U	2.70 U	2.80 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.40 U	1.40 U	1.40 U	1.30 U	1.40 U
Perfluoropentanoic acid (PFPeA)		0.930 U	0.940 U	0.940 U	0.930 U	0.890 U	0.940 U
Perfluorotetradecanoic acid (PFTeDA)		2.80 U	2.80 U	2.80 U	2.80 U	2.70 U	2.80 U
Perfluorotridecanoic acid (PFTrDA)		2.80 U	2.80 U	2.80 U	2.80 U	2.70 U	2.80 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.40 U	1.40 U	1.40 U	1.30 U	1.40 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-622M2	MW-631M1	MW-631M2	MW-632M1	MW-632M2	MW-640M1
	Field Sample ID	MW-622M2_F21	MW-631M1_F21	MW-631M2_F21	MW-632M1_F21	MW-632M2_F21	MW-640M1_F21
	Sampling Depth	220.40 - 230.40	233.10 - 243.10	200.10 - 210.10	254.50 - 264.50	229.50 - 239.50	246.00 - 256.00
	Sampling Date	09/13/2021	08/23/2021	08/23/2021	09/07/2021	09/07/2021	09/07/2021
	SDG	320790821	320781081	320781081	320787611	320787611	320787611
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		19.0 U	18.0 U	18.0 U	18.0 U	18.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.60 U	8.80 U	9.00 U	9.00 U	9.00 U	9.60 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.60 U	8.80 U	9.00 U	9.00 U	9.00 U	9.60 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.60 U	8.80 U	9.00 U	9.00 U	9.00 U	9.60 U
Perfluorobutanesulfonic acid (PFBS)	600	0.960 U	0.880 U	**12.0**	0.900 U	0.900 U	0.960 U
Perfluorobutanoic acid (PFBA)		1.40 U	1.30 U	**2.80**	1.40 U	1.30 U	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.30 U	1.40 U	1.40 U	1.30 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.960 U	0.880 U	0.900 U	0.900 U	0.900 U	0.960 U
Perfluorododecanoic acid (PFDoA)		1.40 U	1.30 U	1.40 U	1.40 U	1.30 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.960 U	0.880 U	0.900 U	0.900 U	0.900 U	0.960 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.30 U	1.40 U	1.40 U	1.30 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	0.960 U	0.880 U	0.900 U	0.900 U	0.900 U	0.960 U
Perfluorohexanoic acid (PFHxA)		0.960 U	0.880 U	**23.0**	0.900 U	0.900 U	0.960 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.30 U	1.40 U	1.40 U	1.30 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		2.90 U	2.60 U	2.70 U	2.70 U	2.70 U	2.90 U
Perfluorooctanesulfonic acid (PFOS)	4	2.90 U	2.60 U	2.70 U	2.70 U	2.70 U	2.90 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.30 U	1.40 U	1.40 U	1.30 U	1.40 U
Perfluoropentanoic acid (PFPeA)		0.960 U	0.880 U	**11.0**	0.900 U	0.900 U	0.960 U
Perfluorotetradecanoic acid (PFTeDA)		2.90 U	2.60 U	2.70 U	2.70 U	2.70 U	2.90 U
Perfluorotridecanoic acid (PFTrDA)		2.90 U	2.60 U	2.70 U	2.70 U	2.70 U	2.90 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.30 U	1.40 U	1.40 U	1.30 U	1.40 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-640M2	MW-703M1	MW-703M2	MW-704M1	MW-704M2
	Field Sample ID	MW-640M2_F21	MW-703M1_F21	MW-703M2_F21	MW-704M1_F21	MW-704M2_F21
	Sampling Depth	216.00 - 226.00	248.00 - 258.00	224.10 - 234.10	244.00 - 254.00	217.80 - 227.80
	Sampling Date	09/07/2021	09/14/2021	09/14/2021	09/13/2021	09/13/2021
	SDG	320787611	320790821	320790821	320790821	320790821
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		18.0 U	20.0 U	19.0 U	19.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.10 U	9.80 U	9.70 U	9.70 U	9.40 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.10 U	9.80 U	9.70 U	9.70 U	9.40 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.10 U	9.80 U	9.70 U	9.70 U	9.40 U
Perfluorobutanesulfonic acid (PFBS)	600	0.910 U	0.980 U	0.970 U	0.970 U	0.940 U
Perfluorobutanoic acid (PFBA)		1.40 U	1.50 U	1.50 U	**3.30**	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.50 U	1.50 U	1.50 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.910 U	**3.90**	**2.00**	**2.00**	**2.20**
Perfluorododecanoic acid (PFDoA)		1.40 U	1.50 U	1.50 U	1.50 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.910 U	0.980 U	0.970 U	0.970 U	0.940 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.50 U	1.50 U	1.50 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	0.910 U	0.980 U	0.970 U	0.970 U	0.940 U
Perfluorohexanoic acid (PFHxA)		0.910 U	0.980 U	0.970 U	**0.900 J**	0.940 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	**1.60 J**	**0.640 J**	**1.10 J**	**0.830 J**
Perfluorooctanesulfonamide (PFOSA)		2.70 U	2.90 U	2.90 U	2.90 U	2.80 U
Perfluorooctanesulfonic acid (PFOS)	4	2.70 U	2.90 U	2.90 U	2.90 U	2.80 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.50 U	1.50 U	1.50 U	1.40 U
Perfluoropentanoic acid (PFPeA)		0.910 U	**0.700 J**	0.970 U	**3.20**	0.940 U
Perfluorotetradecanoic acid (PFTeDA)		2.70 U	2.90 U	2.90 U	2.90 U	2.80 U
Perfluorotridecanoic acid (PFTrDA)		2.70 U	2.90 U	2.90 U	2.90 U	2.80 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.50 U	1.50 U	1.50 U	1.40 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	J2EW0002	J2EW0002	J2EW2-MW2-B	J2EW2-MW2-C	MW-293M2	MW-293M2
	Field Sample ID	J2EW0002_F21	J2EW0002_F21D	J2EW2-MW2-B_F21	J2EW2-MW2-C_F21	MW-293M2_F21	MW-293M2_F21D
	Sampling Depth	198.00 - 233.00	198.00 - 233.00	209.79 - 219.79	243.83 - 253.81	0.00 - 0.00	0.00 - 0.00
	Sampling Date	09/27/2021	09/27/2021	09/15/2021	09/15/2021	09/08/2021	09/08/2021
	SDG	320796651	320796651	320791141	320791141	320787611	320787611
	Sample Type	**Normal**	**Field Duplicate**	**Normal**	**Normal**	**Normal**	**Field Duplicate**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**8.10**	**7.70**	**0.00**	**0.00**	**3.20**	**2.80**
§Sum of All Compounds Detected		**19.4**	**18.7**	**0.00**	**0.00**	**37.8**	**35.2**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-300M1	MW-300M1	MW-300M2	MW-300M3	MW-302M2	MW-302M2
	Field Sample ID	MW-300M1_F21	MW-300M1_F21D	MW-300M2_F21	MW-300M3_F21	MW-302M2_F21	MW-302M2_F21D
	Sampling Depth	293.03 - 303.02	293.03 - 303.02	197.23 - 207.23	135.31 - 145.31	194.35 - 204.43	194.35 - 204.43
	Sampling Date	09/21/2021	09/21/2021	09/21/2021	09/21/2021	09/13/2021	09/13/2021
	SDG	320793351	320793351	320793351	320793351	320790821	320790821
	Sample Type	**Normal**	**Field Duplicate**	**Normal**	**Normal**	**Normal**	**Field Duplicate**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**8.20**	**8.40**	**7.60**	**2.10**	**2.60**	**2.50**
§Sum of All Compounds Detected		**17.0**	**17.7**	**17.2**	**10.2**	**33.5**	**33.7**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-305M1	MW-330M1	MW-330M2	MW-330M3	MW-340D	MW-340M1
	Field Sample ID	MW-305M1_F21	MW-330M1_F21	MW-330M2_F21	MW-330M3_F21	MW-340D_F21	MW-340M1_F21
	Sampling Depth	202.82 - 212.82	313.10 - 323.13	238.01 - 248.04	154.97 - 164.99	329.60 - 339.60	255.85 - 265.85
	Sampling Date	09/14/2021	09/17/2021	09/17/2021	09/17/2021	09/23/2021	09/23/2021
	SDG	320790821	320791141	320791141	320791141	320793861	320793861
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**5.80**	**54.0**	**20.9**	**44.0**	**32.0**	**2.30**
§Sum of All Compounds Detected		**9.10**	**88.8**	**37.5**	**53.7**	**53.8**	**5.40**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-340M2	MW-345M1	MW-345M2	MW-348M2	MW-586M1	MW-586M2
	Field Sample ID	MW-340M2_F21	MW-345M1_F21	MW-345M2_F21	MW-348M2_F21	MW-586M1_F21	MW-586M2_F21
	Sampling Depth	215.83 - 225.08	311.50 - 321.50	236.62 - 246.62	206.54 - 216.54	237.00 - 247.00	211.00 - 221.00
	Sampling Date	09/23/2021	09/20/2021	09/20/2021	09/07/2021	09/09/2021	09/09/2021
	SDG	320793861	320793351	320793351	320787611	320787751	320787751
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**4.00**	**70.0**	**9.70**	**2.40**	**0.00**	**0.00**
§Sum of All Compounds Detected		**5.60**	**111**	**19.2**	**14.2**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-587M1	MW-588M1	MW-588M2	MW-589M1	MW-589M2	MW-612M1
	Field Sample ID	MW-587M1_F21	MW-588M1_F21	MW-588M2_F21	MW-589M1_F21	MW-589M2_F21	MW-612M1_F21
	Sampling Depth	250.00 - 260.00	238.00 - 248.00	198.00 - 208.00	240.00 - 250.00	211.00 - 221.00	297.00 - 307.00
	Sampling Date	08/24/2021	09/08/2021	09/08/2021	09/09/2021	09/09/2021	09/14/2021
	SDG	320781081	320787611	320787611	320787751	320787751	320790821
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
§Sum of All Compounds Detected		**0.00**	**0.00**	**1.70**	**0.570**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-612M2	MW-613M1	MW-613M2	MW-621M1	MW-621M2	MW-622M1
	Field Sample ID	MW-612M2_F21	MW-613M1_F21	MW-613M2_F21	MW-621M1_F21	MW-621M2_F21	MW-622M1_F21
	Sampling Depth	267.00 - 277.00	267.10 - 277.10	246.10 - 256.10	249.40 - 259.40	219.40 - 229.40	245.40 - 255.40
	Sampling Date	09/14/2021	09/17/2021	09/17/2021	09/08/2021	09/08/2021	09/13/2021
	SDG	320790821	320791141	320791141	320787611	320787611	320790821
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
§Sum of All Compounds Detected		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-622M2	MW-631M1	MW-631M2	MW-632M1	MW-632M2	MW-640M1
	Field Sample ID	MW-622M2_F21	MW-631M1_F21	MW-631M2_F21	MW-632M1_F21	MW-632M2_F21	MW-640M1_F21
	Sampling Depth	220.40 - 230.40	233.10 - 243.10	200.10 - 210.10	254.50 - 264.50	229.50 - 239.50	246.00 - 256.00
	Sampling Date	09/13/2021	08/23/2021	08/23/2021	09/07/2021	09/07/2021	09/07/2021
	SDG	320790821	320781081	320781081	320787611	320787611	320787611
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
§Sum of All Compounds Detected		**0.00**	**0.00**	**48.8**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-640M2	MW-703M1	MW-703M2	MW-704M1	MW-704M2
	Field Sample ID	MW-640M2_F21	MW-703M1_F21	MW-703M2_F21	MW-704M1_F21	MW-704M2_F21
	Sampling Depth	216.00 - 226.00	248.00 - 258.00	224.10 - 234.10	244.00 - 254.00	217.80 - 227.80
	Sampling Date	09/07/2021	09/14/2021	09/14/2021	09/13/2021	09/13/2021
	SDG	320787611	320790821	320790821	320790821	320790821
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**3.90**	**2.00**	**2.00**	**2.20**
§Sum of All Compounds Detected		**0.00**	**6.20**	**2.64**	**10.5**	**3.03**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

KGS 2021 J2 Ranges SPM Spring - J2 Range Northern

	Location	J2EW0002
	Field Sample ID	J2EW0002_521
	Sampling Depth	198.00 - 233.00
	Sampling Date	01/13/2021
	SDG	320689351
	Sample Type	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		**7.40 J**
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.40 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.40 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.40 U
Perfluorobutanesulfonic acid (PFBS)	600	0.940 U
Perfluorobutanoic acid (PFBA)		1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U
Perfluorodecanoic acid (PFDA)		0.940 U
Perfluorododecanoic acid (PFDoA)		1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		**0.430 J**
Perfluoroheptanoic acid (PFHpA)		**0.860 J**
Perfluorohexane sulfonate (PFHxS)	39	**11.0**
Perfluorohexanoic acid (PFHxA)		**0.900 J**
Perfluorononanoic acid (PFNA)	5.9	1.40 U
Perfluorooctanesulfonamide (PFOSA)		**1.80 J**
Perfluorooctanesulfonic acid (PFOS)	4	**1.00 J**
Perfluorooctanoic acid (PFOA)	6	**1.80 J**
Perfluoropentanoic acid (PFPeA)		1.90 U
Perfluorotetradecanoic acid (PFTeDA)		2.80 U
Perfluorotridecanoic acid (PFTrDA)		2.80 U
Perfluoroundecanoic acid (PFUnA)		1.40 U
†PFOS + PFOA (EPA)		**2.80**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**11.0**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	J2EW0002
	Field Sample ID	J2EW0002_521
	Sampling Depth	198.00 - 233.00
	Sampling Date	01/13/2021
	SDG	320689351
	Sample Type	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)
§Sum of All Compounds Detected		**25.2**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

KGS 2021 J3 Range SPM Fall - J3 Range

	Location	90EW0001	90WT0004	J3-EFF	J3-EFF	J3EW0032	J3EWIP1
	Field Sample ID	90EW0001_F21	90WT0004_F21	J3-EFF_4Q21	J3-EFF_F21	J3EW0032_F21	J3EWIP1_F21
	Sampling Depth	83.10 - 143.80	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	102.00 - 152.00	153.00 - 193.00
	Sampling Date	07/13/2021	08/10/2021	10/20/2021	07/13/2021	07/13/2021	07/13/2021
	SDG	320762631	320775331	320807451	320762631	320762631	320762631
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		18.0 U	18.0 U	19.0 U	19.0 U	20.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.20 U	9.20 U	9.60 U	9.50 U	9.80 U	9.40 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.20 U	9.20 U	9.60 U	9.50 U	9.80 U	9.40 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.20 U	9.20 U	9.60 U	9.50 U	9.80 U	9.40 U
Perfluorobutanesulfonic acid (PFBS)	600	0.920 U	0.920 U	0.960 U	0.950 U	0.980 U	0.940 U
Perfluorobutanoic acid (PFBA)		1.40 U	1.40 U	1.40 U	1.40 U	1.50 U	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.40 U	1.40 U	1.50 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.920 U	0.920 U	0.960 U	0.950 U	0.980 U	0.940 U
Perfluorododecanoic acid (PFDoA)		1.40 U	1.40 U	1.40 U	1.40 U	1.50 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.920 U	0.920 U	0.960 U	0.950 U	0.980 U	0.940 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.40 U	1.40 U	1.40 U	1.50 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	**0.500 J**	0.920 U	0.960 U	0.950 U	**0.720 J**	**0.520 J**
Perfluorohexanoic acid (PFHxA)		0.920 U	0.920 U	0.960 U	0.950 U	0.980 U	0.940 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.40 U	1.40 U	1.40 U	1.50 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		2.70 U	2.80 U	2.90 U	2.90 U	2.90 U	2.80 U
Perfluorooctanesulfonic acid (PFOS)	4	2.70 U	2.80 U	2.90 U	2.90 U	2.90 U	2.80 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.40 U	1.40 U	1.40 U	1.50 U	1.40 U
Perfluoropentanoic acid (PFPeA)		0.920 U	0.920 U	0.960 U	0.950 U	0.980 U	0.940 U
Perfluorotetradecanoic acid (PFTeDA)		2.70 U	2.80 U	2.90 U	2.90 U	2.90 U	2.80 U
Perfluorotridecanoic acid (PFTrDA)		2.70 U	2.80 U	2.90 U	2.90 U	2.90 U	2.80 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.40 U	1.40 U	1.40 U	1.50 U	1.40 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	J3EWIP2	J3-INF	J3-INF	MW-142M2	MW-142S	MW-143M1
	Field Sample ID	J3EWIP2_F21	J3-INF_4Q21	J3-INF_F21	MW-142M2_F21	MW-142S_F21	MW-143M1_F21
	Sampling Depth	150.50 - 170.50	0.00 - 0.00	0.00 - 0.00	140.00 - 150.00	42.00 - 52.00	144.00 - 154.00
	Sampling Date	07/13/2021	10/20/2021	07/13/2021	07/27/2021	07/27/2021	07/26/2021
	SDG	320762631	320807451	320762631	320769671	320769671	320769671
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		20.0 U	19.0 U	19.0 U	19.0 UJ	19.0 UJ	19.0 UJ
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.80 U	9.70 U	9.50 U	9.70 UJ	9.30 UJ	9.60 UJ
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.80 U	9.70 U	9.50 U	9.70 UJ	9.30 UJ	9.60 UJ
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.80 U	9.70 U	9.50 U	9.70 UJ	9.30 UJ	9.60 UJ
Perfluorobutanesulfonic acid (PFBS)	600	0.980 U	0.970 U	0.950 U	0.970 UJ	0.930 UJ	0.960 UJ
Perfluorobutanoic acid (PFBA)		1.50 U	1.50 U	1.40 U	1.50 UJ	1.40 UJ	1.40 UJ
Perfluorodecanesulfonic acid (PFDS)		1.50 U	1.50 U	1.40 U	1.50 UJ	1.40 UJ	1.40 UJ
Perfluorodecanoic acid (PFDA)		0.980 U	0.970 U	0.950 U	0.970 UJ	0.930 UJ	0.960 UJ
Perfluorododecanoic acid (PFDoA)		1.50 U	1.50 U	1.40 U	1.50 UJ	1.40 UJ	1.40 UJ
Perfluoroheptanesulfonic acid (PFHpS)		0.980 U	0.970 U	0.950 U	0.970 UJ	0.930 UJ	0.960 UJ
Perfluoroheptanoic acid (PFHpA)		1.50 U	1.50 U	1.40 U	1.50 UJ	1.40 UJ	1.40 UJ
Perfluorohexane sulfonate (PFHxS)	39	**2.80**	**1.00 J**	**1.20 J**	**2.80 J**	0.930 UJ	0.960 UJ
Perfluorohexanoic acid (PFHxA)		0.980 U	0.970 U	0.950 U	0.970 UJ	0.930 UJ	0.960 UJ
Perfluorononanoic acid (PFNA)	5.9	1.50 U	1.50 U	1.40 U	1.50 UJ	1.40 UJ	1.40 UJ
Perfluorooctanesulfonamide (PFOSA)		2.90 U	2.90 U	2.80 U	2.90 UJ	2.80 UJ	2.90 UJ
Perfluorooctanesulfonic acid (PFOS)	4	2.90 U	2.90 U	2.80 U	2.90 UJ	2.80 UJ	2.90 UJ
Perfluorooctanoic acid (PFOA)	6	1.50 U	1.50 U	1.40 U	1.50 UJ	**0.510 J**	1.40 UJ
Perfluoropentanoic acid (PFPeA)		0.980 U	0.970 U	0.950 U	0.970 UJ	0.930 UJ	0.960 UJ
Perfluorotetradecanoic acid (PFTeDA)		2.90 U	2.90 U	2.80 U	2.90 UJ	2.80 UJ	2.90 UJ
Perfluorotridecanoic acid (PFTrDA)		2.90 U	2.90 U	2.80 U	2.90 UJ	2.80 UJ	2.90 UJ
Perfluoroundecanoic acid (PFUnA)		1.50 U	1.50 U	1.40 U	1.50 UJ	1.40 UJ	1.40 UJ
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.510**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-143M2	MW-143M2	MW-144M2	MW-144S	MW-145M1	MW-145S
	Field Sample ID	MW-143M2_F21DR	MW-143M2_F21R	MW-144M2_F21	MW-144S_F21R	MW-145M1_F21	MW-145S_F21
	Sampling Depth	117.00 - 122.00	117.00 - 122.00	130.00 - 140.00	26.00 - 36.00	125.00 - 135.00	30.00 - 40.00
	Sampling Date	09/16/2021	09/16/2021	07/27/2021	09/16/2021	08/11/2021	08/11/2021
	SDG	320791142	320791142	320769671	320791142	320776031	320776031
	Sample Type	**Field Duplicate**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		19.0 U	19.0 U	19.0 UJ	20.0 U	19.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.50 U	9.40 U	9.40 UJ	9.90 U	9.50 U	9.40 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.50 U	9.40 U	9.40 UJ	9.90 U	9.50 U	9.40 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.50 U	9.40 U	9.40 UJ	9.90 U	9.50 U	9.40 U
Perfluorobutanesulfonic acid (PFBS)	600	**0.640 J**	**0.700 J**	0.940 UJ	0.990 U	0.950 U	0.940 U
Perfluorobutanoic acid (PFBA)		1.40 U	1.40 U	1.40 UJ	1.50 U	1.40 U	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.40 UJ	1.50 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.950 U	0.940 U	0.940 UJ	0.990 U	0.950 U	0.940 U
Perfluorododecanoic acid (PFDoA)		1.40 U	1.40 U	1.40 UJ	1.50 U	1.40 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.950 U	0.940 U	0.940 UJ	0.990 U	0.950 U	0.940 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.40 U	1.40 UJ	1.50 U	1.40 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	**4.10**	**4.00**	0.940 UJ	0.990 U	0.950 U	**1.50 J**
Perfluorohexanoic acid (PFHxA)		0.950 U	0.940 U	0.940 UJ	0.990 U	0.950 U	**0.630 J**
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.40 U	1.40 UJ	1.50 U	1.40 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		2.80 U	2.80 U	2.80 UJ	3.00 U	2.90 U	2.80 U
Perfluorooctanesulfonic acid (PFOS)	4	2.80 U	2.80 U	2.80 UJ	**3.60 J**	2.90 U	**3.90**
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.40 U	1.40 UJ	**0.570 J**	1.40 U	**0.760 J**
Perfluoropentanoic acid (PFPeA)		0.950 U	0.940 U	0.940 UJ	0.990 U	0.950 U	0.940 U
Perfluorotetradecanoic acid (PFTeDA)		2.80 U	2.80 U	2.80 UJ	3.00 U	2.90 U	2.80 U
Perfluorotridecanoic acid (PFTrDA)		2.80 U	2.80 U	2.80 UJ	3.00 U	2.90 U	2.80 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.40 U	1.40 UJ	1.50 U	1.40 U	1.40 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**4.17**	**0.00**	**4.66**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-157M1	MW-157M2	MW-157M3	MW-163S	MW-181S	MW-181S
	Field Sample ID	MW-157M1_F21	MW-157M2_F21	MW-157M3_F21	MW-163S_F21	MW-181S_F21	MW-181S_F21D
	Sampling Depth	154.00 - 164.00	110.00 - 120.00	70.00 - 80.00	38.00 - 48.00	32.25 - 42.25	32.25 - 42.25
	Sampling Date	07/14/2021	07/14/2021	07/14/2021	07/14/2021	08/02/2021	08/02/2021
	SDG	320763871	320763871	320763871	320763871	320772471	320772471
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Field Duplicate**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		19.0 U	19.0 U	20.0 U	19.0 U	19.0 U	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.30 U	9.70 U	10.0 U	9.40 U	9.50 U	9.00 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.30 U	9.70 U	10.0 U	9.40 U	9.50 U	9.00 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.30 U	9.70 U	10.0 U	9.40 U	9.50 U	9.00 U
Perfluorobutanesulfonic acid (PFBS)	600	0.930 U	**9.40**	1.00 U	0.940 U	0.950 U	0.900 U
Perfluorobutanoic acid (PFBA)		1.40 U	1.50 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.50 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.930 U	0.970 U	1.00 U	0.940 U	0.950 U	0.900 U
Perfluorododecanoic acid (PFDoA)		1.40 U	1.50 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.930 U	0.970 U	1.00 U	0.940 U	0.950 U	0.900 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.50 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	0.930 U	**0.720 J**	**1.50 J**	**0.450 J**	0.950 U	0.900 U
Perfluorohexanoic acid (PFHxA)		0.930 U	0.970 U	1.00 U	0.940 U	0.950 U	0.900 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.50 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		2.80 U	2.90 U	3.00 U	2.80 U	2.80 U	2.70 U
Perfluorooctanesulfonic acid (PFOS)	4	2.80 U	2.90 U	3.00 U	**4.80**	**15.0**	**15.0**
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.50 U	**0.730 J**	**1.10 J**	1.40 U	1.40 U
Perfluoropentanoic acid (PFPeA)		0.930 U	0.970 U	1.00 U	0.940 U	0.950 U	0.900 U
Perfluorotetradecanoic acid (PFTeDA)		2.80 U	2.90 U	3.00 U	2.80 U	2.80 U	2.70 U
Perfluorotridecanoic acid (PFTrDA)		2.80 U	2.90 U	3.00 U	2.80 U	2.80 U	2.70 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.50 U	1.50 U	1.40 U	1.40 U	1.40 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.730**	**5.90**	**15.0**	**15.0**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-193S	MW-193S	MW-196M1	MW-196S	MW-197M2	MW-197M2
	Field Sample ID	MW-193S_F21	MW-193S_F21D	MW-196M1_F21	MW-196S_F21	MW-197M2_F21	MW-197M2_F21D
	Sampling Depth	32.50 - 37.50	32.50 - 37.50	45.00 - 50.00	32.00 - 37.00	80.20 - 85.20	80.20 - 85.20
	Sampling Date	08/04/2021	08/04/2021	08/11/2021	08/11/2021	08/02/2021	08/02/2021
	SDG	320772871	320772871	320776031	320776031	320772471	320772471
	Sample Type	**Normal**	**Field Duplicate**	**Normal**	**Normal**	**Normal**	**Field Duplicate**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		19.0 U	19.0 U	19.0 U	20.0 U	19.0 U	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.40 U	9.40 U	9.60 U	10.0 U	9.60 U	9.20 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.40 U	9.40 U	9.60 U	10.0 U	9.60 U	9.20 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.40 U	9.40 U	9.60 U	10.0 U	9.60 U	9.20 U
Perfluorobutanesulfonic acid (PFBS)	600	0.940 U	0.940 U	0.960 U	1.00 U	**0.450 J**	**0.460 J**
Perfluorobutanoic acid (PFBA)		1.40 U	1.40 U	**0.900 J**	1.50 U	**2.60**	**2.60**
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.40 U	1.50 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.940 U	0.940 U	0.960 U	1.00 U	0.960 U	0.920 U
Perfluorododecanoic acid (PFDoA)		1.40 U	1.40 U	1.40 U	1.50 U	1.40 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.940 U	0.940 U	0.960 U	1.00 U	0.960 U	0.920 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.40 U	1.40 U	1.50 U	**3.00**	**3.00**
Perfluorohexane sulfonate (PFHxS)	39	**2.80**	**2.60**	0.960 U	**0.440 J**	**15.0**	**15.0**
Perfluorohexanoic acid (PFHxA)		0.940 U	0.940 U	**0.760 J**	**0.480 J**	**5.00**	**5.50**
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.40 U	1.40 U	1.50 U	1.40 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		2.80 U	2.80 U	2.90 U	3.00 U	2.90 U	2.80 U
Perfluorooctanesulfonic acid (PFOS)	4	2.80 U	2.80 U	2.90 U	**5.30 J**	**4.90**	**4.80**
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.40 U	**1.40 J**	**0.700 J**	**2.70**	**2.90**
Perfluoropentanoic acid (PFPeA)		0.940 U	0.940 U	0.960 U	1.00 U	**4.20**	**4.20**
Perfluorotetradecanoic acid (PFTeDA)		2.80 U	2.80 U	2.90 U	3.00 U	2.90 U	2.80 U
Perfluorotridecanoic acid (PFTrDA)		2.80 U	2.80 U	2.90 U	3.00 U	2.90 U	2.80 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.40 U	1.40 U	1.50 U	1.40 U	1.40 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**1.40**	**6.00**	**7.60**	**7.70**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-197M3	MW-198M4	MW-218M1	MW-218M1	MW-218M2	MW-218M2
	Field Sample ID	MW-197M3_F21	MW-198M4_F21	MW-218M1_F21	MW-218M1_F21R	MW-218M2_F21	MW-218M2_F21R
	Sampling Depth	60.20 - 65.20	70.00 - 75.00	128.00 - 133.00	128.00 - 133.00	98.00 - 103.00	98.00 - 103.00
	Sampling Date	08/02/2021	08/05/2021	08/16/2021	09/30/2021	08/16/2021	09/30/2021
	SDG	320772471	320773351	320778561	320797671	320778561	320797671
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		19.0 U	19.0 U	18.0 U	19.0 U	19.0 U	20.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.40 U	9.30 U	9.10 U	9.50 U	9.40 U	10.0 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.40 U	9.30 U	9.10 U	9.50 U	9.40 U	10.0 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.40 U	9.30 U	9.10 U	9.50 U	9.40 U	10.0 U
Perfluorobutanesulfonic acid (PFBS)	600	0.940 U	0.930 U	**0.420 J**	0.950 U	0.940 U	1.00 U
Perfluorobutanoic acid (PFBA)		**1.30 J**	**1.40 J**	**400**	1.40 U	**64.0**	**3.00**
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.50 U
Perfluorodecanoic acid (PFDA)		0.940 U	0.930 U	**42.0**	**5.60**	**10.0**	**5.10**
Perfluorododecanoic acid (PFDoA)		1.40 U	1.40 U	**32.0**	1.40 U	**2.30**	**0.600 J**
Perfluoroheptanesulfonic acid (PFHpS)		0.940 U	0.930 U	0.910 U	0.950 U	0.940 U	1.00 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.40 U	**360**	1.40 U	**100**	**2.10**
Perfluorohexane sulfonate (PFHxS)	39	**2.40**	**8.50**	0.910 U	0.950 U	0.940 U	1.00 U
Perfluorohexanoic acid (PFHxA)		**0.590 J**	0.930 U	**350**	0.950 U	**57.0**	**1.90 J**
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.40 U	**75.0**	**6.20**	**35.0**	**6.20**
Perfluorooctanesulfonamide (PFOSA)		2.80 U	2.80 U	2.70 U	2.80 U	2.80 U	3.00 U
Perfluorooctanesulfonic acid (PFOS)	4	2.80 U	**1.70 J**	2.70 U	2.80 U	2.80 U	3.00 U
Perfluorooctanoic acid (PFOA)	6	**1.00 J**	**0.870 J**	**120**	**5.70**	**49.0**	**2.10**
Perfluoropentanoic acid (PFPeA)		0.940 U	0.930 U	**770**	0.950 U	**110**	**5.00**
Perfluorotetradecanoic acid (PFTeDA)		2.80 U	2.80 U	**35.0**	2.80 U	**2.00 J**	3.00 U
Perfluorotridecanoic acid (PFTrDA)		2.80 U	2.80 U	**49.0**	2.80 U	**2.60 J**	3.00 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.40 U	**48.0**	**3.60**	**6.80**	**3.50**
†PFOS + PFOA (EPA)		**1.00**	**2.57**	**120**	**5.70**	**49.0**	**2.10**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-218M3	MW-218M3	MW-250M1	MW-250M3	MW-30	MW-576M2
	Field Sample ID	MW-218M3_F21	MW-218M3_F21R	MW-250M1_F21	MW-250M3_F21	MW-30_F21	MW-576M2_F21
	Sampling Depth	78.00 - 83.00	78.00 - 83.00	185.00 - 195.00	95.00 - 105.00	26.00 - 36.00	133.90 - 143.90
	Sampling Date	08/16/2021	09/30/2021	07/15/2021	07/15/2021	08/02/2021	08/10/2021
	SDG	320778561	320797671	320763871	320763871	320772471	320775331
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		18.0 U	19.0 U	18.0 U	18.0 U	18.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.10 U	9.30 U	9.00 U	9.00 U	9.00 U	9.40 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.10 U	9.30 U	9.00 U	9.00 U	9.00 U	9.40 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.10 U	9.30 U	9.00 U	9.00 U	9.00 U	9.40 U
Perfluorobutanesulfonic acid (PFBS)	600	0.910 U	0.930 U	0.900 U	0.900 U	0.900 U	0.940 U
Perfluorobutanoic acid (PFBA)		1.40 U	1.40 U	1.40 U	1.30 U	1.40 U	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.40 U	1.30 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.910 U	0.930 U	0.900 U	0.900 U	0.900 U	0.940 U
Perfluorododecanoic acid (PFDoA)		1.40 U	1.40 U	1.40 U	1.30 U	1.40 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.910 U	0.930 U	0.900 U	0.900 U	0.900 U	0.940 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.40 U	1.40 U	1.30 U	1.40 U	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	0.910 U	0.930 U	**0.550 J**	**1.90**	0.900 U	**0.470 J**
Perfluorohexanoic acid (PFHxA)		0.910 U	0.930 U	0.900 U	0.900 U	0.900 U	0.940 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.40 U	1.40 U	1.30 U	1.40 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		2.70 U	2.80 U	2.70 U	2.70 U	2.70 U	2.80 U
Perfluorooctanesulfonic acid (PFOS)	4	2.70 U	2.80 U	2.70 U	**1.00 J**	**7.00**	2.80 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.40 U	1.40 U	1.30 U	1.40 U	1.40 U
Perfluoropentanoic acid (PFPeA)		0.910 U	0.930 U	0.900 U	0.900 U	0.900 U	0.940 U
Perfluorotetradecanoic acid (PFTeDA)		2.70 U	2.80 U	2.70 U	2.70 U	2.70 U	2.80 U
Perfluorotridecanoic acid (PFTrDA)		2.70 U	2.80 U	2.70 U	2.70 U	2.70 U	2.80 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.40 U	1.40 U	1.30 U	1.40 U	1.40 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**1.00**	**7.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-636M1	MW-636M2	MW-653M1	MW-653M2
	Field Sample ID	MW-636M1_F21	MW-636M2_F21	MW-653M1_F21	MW-653M2_F21
	Sampling Depth	141.60 - 151.60	110.50 - 120.50	147.50 - 157.50	59.30 - 69.30
	Sampling Date	07/29/2021	07/29/2021	07/29/2021	07/29/2021
	SDG	320769861	320769861	320769861	320769861
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		19.0 U	19.0 U	20.0 U	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		9.50 U	9.30 U	9.80 U	9.10 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		9.50 U	9.30 U	9.80 U	9.10 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		9.50 U	9.30 U	9.80 U	9.10 U
Perfluorobutanesulfonic acid (PFBS)	600	0.950 U	**1.20 J**	**3.50**	0.910 U
Perfluorobutanoic acid (PFBA)		1.40 U	1.40 U	**1.20 J**	1.40 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.50 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.950 U	0.930 U	0.980 U	0.910 U
Perfluorododecanoic acid (PFDoA)		1.40 U	1.40 U	1.50 U	1.40 U
Perfluoroheptanesulfonic acid (PFHpS)		0.950 U	0.930 U	0.980 U	0.910 U
Perfluoroheptanoic acid (PFHpA)		1.40 U	1.40 U	**2.50**	1.40 U
Perfluorohexane sulfonate (PFHxS)	39	0.950 U	**4.80**	**83.0**	0.910 U
Perfluorohexanoic acid (PFHxA)		**0.460 J**	**0.570 J**	**5.80**	0.910 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.40 U	1.50 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		2.90 U	2.80 U	2.90 U	2.70 U
Perfluorooctanesulfonic acid (PFOS)	4	2.90 U	**1.60 J**	**5.30**	2.70 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.40 U	**1.80 J**	1.40 U
Perfluoropentanoic acid (PFPeA)		0.950 U	0.930 U	**3.30**	0.910 U
Perfluorotetradecanoic acid (PFTeDA)		2.90 U	2.80 U	2.90 U	2.70 U
Perfluorotridecanoic acid (PFTrDA)		2.90 U	2.80 U	2.90 U	2.70 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.40 U	1.50 U	1.40 U
†PFOS + PFOA (EPA)		**0.00**	**1.60**	**7.10**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	90EW0001	90WT0004	J3-EFF	J3-EFF	J3EW0032	J3EWIP1
	Field Sample ID	90EW0001_F21	90WT0004_F21	J3-EFF_4Q21	J3-EFF_F21	J3EW0032_F21	J3EWIP1_F21
	Sampling Depth	83.10 - 143.80	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	102.00 - 152.00	153.00 - 193.00
	Sampling Date	07/13/2021	08/10/2021	10/20/2021	07/13/2021	07/13/2021	07/13/2021
	SDG	320762631	320775331	320807451	320762631	320762631	320762631
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
§Sum of All Compounds Detected		**0.500**	**0.00**	**0.00**	**0.00**	**0.720**	**0.520**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	J3EWIP2	J3-INF	J3-INF	MW-142M2	MW-142S	MW-143M1
	Field Sample ID	J3EWIP2_F21	J3-INF_4Q21	J3-INF_F21	MW-142M2_F21	MW-142S_F21	MW-143M1_F21
	Sampling Depth	150.50 - 170.50	0.00 - 0.00	0.00 - 0.00	140.00 - 150.00	42.00 - 52.00	144.00 - 154.00
	Sampling Date	07/13/2021	10/20/2021	07/13/2021	07/27/2021	07/27/2021	07/26/2021
	SDG	320762631	320807451	320762631	320769671	320769671	320769671
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**2.80**	**0.00**	**0.00**	**2.80**	**0.00**	**0.00**
§Sum of All Compounds Detected		**2.80**	**1.00**	**1.20**	**2.80**	**0.510**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-143M2	MW-143M2	MW-144M2	MW-144S	MW-145M1	MW-145S
	Field Sample ID	MW-143M2_F21DR	MW-143M2_F21R	MW-144M2_F21	MW-144S_F21R	MW-145M1_F21	MW-145S_F21
	Sampling Depth	117.00 - 122.00	117.00 - 122.00	130.00 - 140.00	26.00 - 36.00	125.00 - 135.00	30.00 - 40.00
	Sampling Date	09/16/2021	09/16/2021	07/27/2021	09/16/2021	08/11/2021	08/11/2021
	SDG	320791142	320791142	320769671	320791142	320776031	320776031
	Sample Type	**Field Duplicate**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**4.10**	**4.00**	**0.00**	**0.00**	**0.00**	**3.90**
§Sum of All Compounds Detected		**4.74**	**4.70**	**0.00**	**4.17**	**0.00**	**6.79**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-157M1	MW-157M2	MW-157M3	MW-163S	MW-181S	MW-181S
	Field Sample ID	MW-157M1_F21	MW-157M2_F21	MW-157M3_F21	MW-163S_F21	MW-181S_F21	MW-181S_F21D
	Sampling Depth	154.00 - 164.00	110.00 - 120.00	70.00 - 80.00	38.00 - 48.00	32.25 - 42.25	32.25 - 42.25
	Sampling Date	07/14/2021	07/14/2021	07/14/2021	07/14/2021	08/02/2021	08/02/2021
	SDG	320763871	320763871	320763871	320763871	320772471	320772471
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Field Duplicate**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**4.80**	**15.0**	**15.0**
§Sum of All Compounds Detected		**0.00**	**10.1**	**2.23**	**6.35**	**15.0**	**15.0**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-193S	MW-193S	MW-196M1	MW-196S	MW-197M2	MW-197M2
	Field Sample ID	MW-193S_F21	MW-193S_F21D	MW-196M1_F21	MW-196S_F21	MW-197M2_F21	MW-197M2_F21D
	Sampling Depth	32.50 - 37.50	32.50 - 37.50	45.00 - 50.00	32.00 - 37.00	80.20 - 85.20	80.20 - 85.20
	Sampling Date	08/04/2021	08/04/2021	08/11/2021	08/11/2021	08/02/2021	08/02/2021
	SDG	320772871	320772871	320776031	320776031	320772471	320772471
	Sample Type	**Normal**	**Field Duplicate**	**Normal**	**Normal**	**Normal**	**Field Duplicate**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**2.80**	**2.60**	**0.00**	**5.30**	**25.6**	**25.7**
§Sum of All Compounds Detected		**2.80**	**2.60**	**3.06**	**6.92**	**37.9**	**38.5**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-197M3	MW-198M4	MW-218M1	MW-218M1	MW-218M2	MW-218M2
	Field Sample ID	MW-197M3_F21	MW-198M4_F21	MW-218M1_F21	MW-218M1_F21R	MW-218M2_F21	MW-218M2_F21R
	Sampling Depth	60.20 - 65.20	70.00 - 75.00	128.00 - 133.00	128.00 - 133.00	98.00 - 103.00	98.00 - 103.00
	Sampling Date	08/02/2021	08/05/2021	08/16/2021	09/30/2021	08/16/2021	09/30/2021
	SDG	320772471	320773351	320778561	320797671	320778561	320797671
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**2.40**	**8.50**	**597**	**17.5**	**194**	**15.5**
§Sum of All Compounds Detected		**5.29**	**12.5**	**2280**	**21.1**	**439**	**29.5**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-218M3	MW-218M3	MW-250M1	MW-250M3	MW-30	MW-576M2
	Field Sample ID	MW-218M3_F21	MW-218M3_F21R	MW-250M1_F21	MW-250M3_F21	MW-30_F21	MW-576M2_F21
	Sampling Depth	78.00 - 83.00	78.00 - 83.00	185.00 - 195.00	95.00 - 105.00	26.00 - 36.00	133.90 - 143.90
	Sampling Date	08/16/2021	09/30/2021	07/15/2021	07/15/2021	08/02/2021	08/10/2021
	SDG	320778561	320797671	320763871	320763871	320772471	320775331
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**1.90**	**7.00**	**0.00**
§Sum of All Compounds Detected		**0.00**	**0.00**	**0.550**	**2.90**	**7.00**	**0.470**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-636M1	MW-636M2	MW-653M1	MW-653M2
	Field Sample ID	MW-636M1_F21	MW-636M2_F21	MW-653M1_F21	MW-653M2_F21
	Sampling Depth	141.60 - 151.60	110.50 - 120.50	147.50 - 157.50	59.30 - 69.30
	Sampling Date	07/29/2021	07/29/2021	07/29/2021	07/29/2021
	SDG	320769861	320769861	320769861	320769861
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**4.80**	**90.8**	**0.00**
§Sum of All Compounds Detected		**0.460**	**8.17**	**106**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

KGS 2022 J MID PFAS - J2 Range Northern

	Location	J2N-MID-1F
	Field Sample ID	J2N-MID-1F-P01
	Sampling Depth	0.00 - 0.00
	Sampling Date	08/08/2022
	SDG	320909141
	Sample Type	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		**2.00 J**
8:2 Fluorotelomer sulfonate (8:2 FTS)		1.40 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		0.930 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		0.930 U
Perfluorobutanesulfonic acid (PFBS)	600	0.930 U
Perfluorobutanoic acid (PFBA)		**0.220 J**
Perfluorodecanesulfonic acid (PFDS)		1.40 U
Perfluorodecanoic acid (PFDA)		0.930 U
Perfluorododecanoic acid (PFDoA)		0.930 U
Perfluoroheptanesulfonic acid (PFHpS)		1.40 U
Perfluoroheptanoic acid (PFHpA)		0.930 U
Perfluorohexane sulfonate (PFHxS)	39	0.930 U
Perfluorohexanoic acid (PFHxA)		**1.00 J**
Perfluorononanoic acid (PFNA)	5.9	1.40 U
Perfluorooctanesulfonamide (PFOSA)		1.40 U
Perfluorooctanesulfonic acid (PFOS)	4	1.40 U
Perfluorooctanoic acid (PFOA)	6	1.40 U
Perfluoropentanoic acid (PFPeA)		**0.790 J**
Perfluorotetradecanoic acid (PFTeDA)		1.40 U
Perfluorotridecanoic acid (PFTrDA)		1.40 U
Perfluoroundecanoic acid (PFUnA)		1.40 U
†PFOS + PFOA (EPA)		**0.00**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	J2N-MID-1F
	Field Sample ID	J2N-MID-1F-P01
	Sampling Depth	0.00 - 0.00
	Sampling Date	08/08/2022
	SDG	320909141
	Sample Type	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)
§Sum of All Compounds Detected		**4.01**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

KGS 2022 J MID PFAS - J3 Range

	Location	J3-MID-1
	Field Sample ID	J3-MID-1-P01
	Sampling Depth	0.00 - 0.00
	Sampling Date	08/08/2022
	SDG	320909141
	Sample Type	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		0.950 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		1.40 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		0.950 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		0.950 U
Perfluorobutanesulfonic acid (PFBS)	600	0.950 U
Perfluorobutanoic acid (PFBA)		0.480 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U
Perfluorodecanoic acid (PFDA)		0.950 U
Perfluorododecanoic acid (PFDoA)		0.950 U
Perfluoroheptanesulfonic acid (PFHpS)		1.40 U
Perfluoroheptanoic acid (PFHpA)		0.950 U
Perfluorohexane sulfonate (PFHxS)	39	0.950 U
Perfluorohexanoic acid (PFHxA)		1.40 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U
Perfluorooctanesulfonamide (PFOSA)		1.40 U
Perfluorooctanesulfonic acid (PFOS)	4	1.40 U
Perfluorooctanoic acid (PFOA)	6	1.40 U
Perfluoropentanoic acid (PFPeA)		0.480 U
Perfluorotetradecanoic acid (PFTeDA)		1.40 U
Perfluorotridecanoic acid (PFTrDA)		1.40 U
Perfluoroundecanoic acid (PFUnA)		1.40 U
†PFOS + PFOA (EPA)		**0.00**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	J3-MID-1
	Field Sample ID	J3-MID-1-P01
	Sampling Depth	0.00 - 0.00
	Sampling Date	08/08/2022
	SDG	320909141
	Sample Type	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)
§Sum of All Compounds Detected		**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

KGS 2022 J2 North PFAS Fall - J2 Range Northern

	Location	J2EW0002	J2N-EFF-F	J2N-INF-F	MW-293M1	MW-330M1	MW-330M1
	Field Sample ID	J2EW0002_P22	J2N-EFF-F_P22	J2N-INF-F_P22	MW-293M1_P22	MW-330M1_P22	MW-330M1_P22D
	Sampling Depth	198.00 - 233.00	0.00 - 0.00	0.00 - 0.00	296.26 - 306.27	313.10 - 323.13	313.10 - 323.13
	Sampling Date	10/11/2022	10/11/2022	10/11/2022	10/06/2022	10/06/2022	10/06/2022
	SDG	320931732	320931732	320931732	320929361	320929361	320929361
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Field Duplicate**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		**10.0**	0.990 U	**8.20**	0.950 U	0.970 U	0.960 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		1.40 U	1.50 U	1.50 U	1.40 U	1.40 U	1.40 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		0.930 U	0.990 U	0.980 U	0.950 U	0.970 U	0.960 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		0.930 U	0.990 U	0.980 U	0.950 U	0.970 U	0.960 U
Perfluorobutanesulfonic acid (PFBS)	600	0.930 U	0.990 U	0.980 U	0.950 U	0.970 U	0.960 U
Perfluorobutanoic acid (PFBA)		**0.410 J**	0.490 U	**0.390 J**	**0.530 J**	**1.40 J**	**1.30 J**
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.50 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.930 U	0.990 U	0.980 U	**11.0**	**19.0**	**20.0**
Perfluorododecanoic acid (PFDoA)		0.930 U	0.990 U	0.980 U	**0.830 J**	**1.20 J**	**1.50 J**
Perfluoroheptanesulfonic acid (PFHpS)		1.40 U	1.50 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluoroheptanoic acid (PFHpA)		**1.20 J**	0.990 U	**1.10 J**	0.950 U	**0.950 J**	**0.960 J**
Perfluorohexane sulfonate (PFHxS)	39	**16.0**	0.990 U	**12.0**	0.950 U	0.970 U	0.960 U
Perfluorohexanoic acid (PFHxA)		**1.70 J**	1.50 U	**1.40 J**	1.40 U	**0.650 J**	**0.700 J**
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.50 U	1.50 U	**1.80 J**	**6.40**	**7.20**
Perfluorooctanesulfonamide (PFOSA)		1.40 U	**0.530 J**	1.50 U	1.40 U	1.40 U	1.40 U
Perfluorooctanesulfonic acid (PFOS)	4	**2.20 J**	1.50 U	**1.50 J**	1.40 U	1.40 U	1.40 U
Perfluorooctanoic acid (PFOA)	6	**2.90**	1.50 U	**2.30**	1.40 U	1.40 U	**0.600 J**
Perfluoropentanoic acid (PFPeA)		**1.70 J**	0.490 U	**1.10 J**	**0.850 J**	**2.00**	**2.00**
Perfluorotetradecanoic acid (PFTeDA)		1.40 U	1.50 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluorotridecanoic acid (PFTrDA)		1.40 U	1.50 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.50 U	1.50 U	**13.0**	**19.0**	**19.0**
†PFOS + PFOA (EPA)		**5.10**	**0.00**	**3.80**	**0.00**	**0.00**	**0.600**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**21.1**	**0.00**	**14.3**	**11.0**	**25.4**	**27.2**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-330M2	MW-330M3	MW-337D	MW-340D	MW-345M1	MW-345M2
	Field Sample ID	MW-330M2_P22	MW-330M3_P22	MW-337D_P22	MW-340D_P22	MW-345M1_P22	MW-345M2_P22
	Sampling Depth	238.01 - 248.04	154.97 - 164.99	310.00 - 320.00	329.60 - 339.60	311.50 - 321.50	236.62 - 246.62
	Sampling Date	10/06/2022	10/06/2022	10/12/2022	10/05/2022	10/05/2022	10/05/2022
	SDG	320929361	320929361	320932701	320929441	320929441	320929441
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		0.990 U	0.950 U	0.990 U	0.910 U	0.960 U	0.950 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		1.50 U	1.40 U	1.50 U	1.40 U	1.40 U	1.40 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		0.990 U	0.950 U	0.990 U	0.910 U	0.960 U	0.950 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		0.990 U	0.950 U	0.990 U	0.910 U	0.960 U	0.950 U
Perfluorobutanesulfonic acid (PFBS)	600	0.990 U	0.950 U	0.990 U	0.910 U	0.960 U	0.950 U
Perfluorobutanoic acid (PFBA)		0.500 U	**0.670 J**	**0.250 J**	0.460 U	0.480 U	**0.360 J**
Perfluorodecanesulfonic acid (PFDS)		1.50 U	1.40 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		**2.40**	**16.0**	**14.0**	**12.0**	**19.0**	**1.90**
Perfluorododecanoic acid (PFDoA)		0.990 U	**0.770 J**	**0.670 J**	**1.30 J**	**3.40**	0.950 U
Perfluoroheptanesulfonic acid (PFHpS)		1.50 U	1.40 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluoroheptanoic acid (PFHpA)		0.990 U	0.950 U	0.990 U	0.910 U	0.960 U	0.950 U
Perfluorohexane sulfonate (PFHxS)	39	0.990 U	0.950 U	0.990 U	0.910 U	0.960 U	0.950 U
Perfluorohexanoic acid (PFHxA)		1.50 U	1.40 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluorononanoic acid (PFNA)	5.9	**4.50**	**11.0**	**5.70**	**7.10**	**2.80**	**6.00**
Perfluorooctanesulfonamide (PFOSA)		1.50 U	1.40 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluorooctanesulfonic acid (PFOS)	4	1.50 U	1.40 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluorooctanoic acid (PFOA)	6	1.50 U	1.40 U	1.50 U	1.40 U	1.40 U	1.40 U
Perfluoropentanoic acid (PFPeA)		**0.480 J**	**0.370 J**	**0.280 J**	**0.380 J**	**0.380 J**	**0.660 J**
Perfluorotetradecanoic acid (PFTeDA)		1.50 U	1.40 U	1.50 U	1.40 U	**1.30 J**	1.40 U
Perfluorotridecanoic acid (PFTrDA)		1.50 U	1.40 U	1.50 U	1.40 U	**3.30**	1.40 U
Perfluoroundecanoic acid (PFUnA)		**3.40**	**9.50**	**12.0**	**19.0**	**46.0**	**3.10**
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**6.90**	**27.0**	**19.7**	**19.1**	**21.8**	**7.90**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	J2EW0002	J2N-EFF-F	J2N-INF-F	MW-293M1	MW-330M1	MW-330M1
	Field Sample ID	J2EW0002_P22	J2N-EFF-F_P22	J2N-INF-F_P22	MW-293M1_P22	MW-330M1_P22	MW-330M1_P22D
	Sampling Depth	198.00 - 233.00	0.00 - 0.00	0.00 - 0.00	296.26 - 306.27	313.10 - 323.13	313.10 - 323.13
	Sampling Date	10/11/2022	10/11/2022	10/11/2022	10/06/2022	10/06/2022	10/06/2022
	SDG	320931732	320931732	320931732	320929361	320929361	320929361
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Field Duplicate**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
§Sum of All Compounds Detected		**36.1**	**0.530**	**28.0**	**28.0**	**50.6**	**53.3**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-330M2	MW-330M3	MW-337D	MW-340D	MW-345M1	MW-345M2
	Field Sample ID	MW-330M2_P22	MW-330M3_P22	MW-337D_P22	MW-340D_P22	MW-345M1_P22	MW-345M2_P22
	Sampling Depth	238.01 - 248.04	154.97 - 164.99	310.00 - 320.00	329.60 - 339.60	311.50 - 321.50	236.62 - 246.62
	Sampling Date	10/06/2022	10/06/2022	10/12/2022	10/05/2022	10/05/2022	10/05/2022
	SDG	320929361	320929361	320932701	320929441	320929441	320929441
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
§Sum of All Compounds Detected		**10.8**	**38.3**	**32.9**	**39.8**	**76.2**	**12.0**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

KGS 2022 J2 North PFAS Spring - J2 Range Eastern

	Location	MW-128S	MW-18D	MW-18S	MW-48D	MW-48M2	MW-48S
	Field Sample ID	MW-128S_S22	MW-18D_S22	MW-18S_S22	MW-48D_S22	MW-48M2_S22	MW-48S_S22
	Sampling Depth	87.00 - 97.00	265.00 - 275.00	35.00 - 45.00	221.00 - 231.00	161.00 - 171.00	99.00 - 109.00
	Sampling Date	01/11/2022	12/27/2021	12/27/2021	01/04/2022	01/04/2022	01/05/2022
	SDG	320838001	320834481	320834481	320836321	320836321	320837121
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		0.960 U	1.00 U	0.980 U	0.950 U	0.990 U	1.00 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		1.40 U	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		0.960 U	1.00 U	0.980 U	0.950 U	0.990 U	1.00 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		0.960 U	1.00 U	0.980 U	0.950 U	0.990 U	1.00 U
Perfluorobutanesulfonic acid (PFBS)	600	0.960 U	1.00 U	0.980 U	0.950 U	0.990 U	1.00 U
Perfluorobutanoic acid (PFBA)		0.480 U	0.500 U	0.490 U	0.470 U	0.490 U	0.500 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
Perfluorodecanoic acid (PFDA)		0.960 U	1.00 U	0.980 U	0.950 U	0.990 U	1.00 U
Perfluorododecanoic acid (PFDoA)		0.960 U	1.00 U	0.980 U	0.950 U	0.990 U	1.00 U
Perfluoroheptanesulfonic acid (PFHpS)		1.40 U	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
Perfluoroheptanoic acid (PFHpA)		0.960 U	1.00 U	0.980 U	0.950 U	0.990 U	1.00 U
Perfluorohexane sulfonate (PFHxS)	39	**4.30**	1.00 U	0.980 U	0.950 U	0.990 U	**0.600 J**
Perfluorohexanoic acid (PFHxA)		1.40 U	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
Perfluorooctanesulfonamide (PFOSA)		1.40 U	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
Perfluorooctanesulfonic acid (PFOS)	4	1.40 U	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
Perfluoropentanoic acid (PFPeA)		0.480 U	0.500 U	0.490 U	0.470 U	0.490 U	0.500 U
Perfluorotetradecanoic acid (PFTeDA)		1.40 U	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
Perfluorotridecanoic acid (PFTrDA)		1.40 U	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**4.30**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

	Location	MW-49D	MW-49M1	MW-49M2	MW-49M3	MW-49S
	Field Sample ID	MW-49D_S22	MW-49M1_S22	MW-49M2_S22	MW-49M3_S22	MW-49S_S22
	Sampling Depth	185.00 - 195.00	160.00 - 170.00	130.00 - 140.00	100.50 - 110.50	68.50 - 78.00
	Sampling Date	01/03/2022	01/03/2022	01/03/2022	01/03/2022	01/03/2022
	SDG	320836321	320836321	320836321	320836321	320836321
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		1.00 U	0.960 U	0.980 U	0.960 U	0.960 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		1.50 U	1.40 U	1.50 U	1.40 U	1.40 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		1.00 U	0.960 U	0.980 U	0.960 U	0.960 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		1.00 U	0.960 U	0.980 U	0.960 U	0.960 U
Perfluorobutanesulfonic acid (PFBS)	600	1.00 U	0.960 U	0.980 U	0.960 U	0.960 U
Perfluorobutanoic acid (PFBA)		0.500 U	0.480 U	0.490 U	0.480 U	0.480 U
Perfluorodecanesulfonic acid (PFDS)		1.50 U	1.40 U	1.50 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		1.00 U	0.960 U	0.980 U	0.960 U	0.960 U
Perfluorododecanoic acid (PFDoA)		1.00 U	0.960 U	0.980 U	0.960 U	0.960 U
Perfluoroheptanesulfonic acid (PFHpS)		1.50 U	1.40 U	1.50 U	1.40 U	1.40 U
Perfluoroheptanoic acid (PFHpA)		1.00 U	0.960 U	0.980 U	0.960 U	0.960 U
Perfluorohexane sulfonate (PFHxS)	39	1.00 U	0.960 U	0.980 U	0.960 U	0.960 U
Perfluorohexanoic acid (PFHxA)		1.50 U	1.40 U	1.50 U	1.40 U	1.40 U
Perfluorononanoic acid (PFNA)	5.9	1.50 U	1.40 U	1.50 U	1.40 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		1.50 U	1.40 U	1.50 U	1.40 U	1.40 U
Perfluorooctanesulfonic acid (PFOS)	4	1.50 U	1.40 U	1.50 U	1.40 U	1.40 U
Perfluorooctanoic acid (PFOA)	6	1.50 U	1.40 U	1.50 U	1.40 U	1.40 U
Perfluoropentanoic acid (PFPeA)		0.500 U	0.480 U	0.490 U	0.480 U	0.480 U
Perfluorotetradecanoic acid (PFTeDA)		1.50 U	1.40 U	1.50 U	1.40 U	1.40 U
Perfluorotridecanoic acid (PFTrDA)		1.50 U	1.40 U	1.50 U	1.40 U	1.40 U
Perfluoroundecanoic acid (PFUnA)		1.50 U	1.40 U	1.50 U	1.40 U	1.40 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-128S	MW-18D	MW-18S	MW-48D	MW-48M2	MW-48S
	Field Sample ID	MW-128S_S22	MW-18D_S22	MW-18S_S22	MW-48D_S22	MW-48M2_S22	MW-48S_S22
	Sampling Depth	87.00 - 97.00	265.00 - 275.00	35.00 - 45.00	221.00 - 231.00	161.00 - 171.00	99.00 - 109.00
	Sampling Date	01/11/2022	12/27/2021	12/27/2021	01/04/2022	01/04/2022	01/05/2022
	SDG	320838001	320834481	320834481	320836321	320836321	320837121
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
§Sum of All Compounds Detected		**4.30**	**0.00**	**0.00**	**0.00**	**0.00**	**0.600**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-49D	MW-49M1	MW-49M2	MW-49M3	MW-49S
	Field Sample ID	MW-49D_S22	MW-49M1_S22	MW-49M2_S22	MW-49M3_S22	MW-49S_S22
	Sampling Depth	185.00 - 195.00	160.00 - 170.00	130.00 - 140.00	100.50 - 110.50	68.50 - 78.00
	Sampling Date	01/03/2022	01/03/2022	01/03/2022	01/03/2022	01/03/2022
	SDG	320836321	320836321	320836321	320836321	320836321
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
§Sum of All Compounds Detected		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

KGS 2022 J2 North PFAS Spring - J2 Range Northern

	Location	C-4D	C-4D	C-4M	C-4S	C-7D	C-7M
	Field Sample ID	C-4D_S22	C-4D_S22D	C-4M_S22	C-4S_S22	C-7D_S22	C-7M_S22
	Sampling Depth	310.00 - 350.00	310.00 - 350.00	260.00 - 300.00	200.00 - 250.00	295.00 - 335.00	247.00 - 287.00
	Sampling Date	01/13/2022	01/13/2022	01/13/2022	01/13/2022	01/12/2022	01/12/2022
	SDG	320838831	320838831	320838831	320838831	320838831	320838831
	Sample Type	**Normal**	**Field Duplicate**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		0.960 U	0.950 U	0.920 U	0.950 U	0.930 U	0.950 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		0.960 U	0.950 U	0.920 U	0.950 U	0.930 U	0.950 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		0.960 U	0.950 U	0.920 U	0.950 U	0.930 U	0.950 U
Perfluorobutanesulfonic acid (PFBS)	600	0.960 U	0.950 U	0.920 U	0.950 U	0.930 U	0.950 U
Perfluorobutanoic acid (PFBA)		0.480 U	0.470 U	0.460 U	0.480 U	0.470 U	0.480 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		**4.30**	**4.50**	**5.90**	**5.30**	**4.80**	**4.20**
Perfluorododecanoic acid (PFDoA)		**0.760 J**	**1.00 J**	**1.60 J**	**1.10 J**	**1.70 J**	**0.960 J**
Perfluoroheptanesulfonic acid (PFHpS)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoroheptanoic acid (PFHpA)		0.960 U	0.950 U	0.920 U	0.950 U	0.930 U	0.950 U
Perfluorohexane sulfonate (PFHxS)	39	0.960 U	0.950 U	0.920 U	0.950 U	0.930 U	0.950 U
Perfluorohexanoic acid (PFHxA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorononanoic acid (PFNA)	5.9	**0.900 J**	**0.930 J**	**1.30 J**	**1.90**	1.40 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorooctanesulfonic acid (PFOS)	4	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoropentanoic acid (PFPeA)		0.480 U	0.470 U	0.460 U	0.480 U	0.470 U	0.480 U
Perfluorotetradecanoic acid (PFTeDA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorotridecanoic acid (PFTrDA)		1.40 U	1.40 U	1.40 U	**0.970 J**	**0.940 J**	1.40 U
Perfluoroundecanoic acid (PFUnA)		**4.60**	**4.30**	**13.0**	**14.0**	**12.0**	**5.80**
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

	Location	C-7S	J2EW3-MW1-A	J2EW3-MW1-B	J2EW3-MW1-C	J2EW3-MW-2-A	J2EW3-MW-2-B
	Field Sample ID	C-7S_S22	J2EW3-MW1-A_S22	J2EW3-MW1-B_S22	J2EW3-MW1-C_S22	J2EW3-MW-2-A_S22	J2EW3-MW-2-B_S22
	Sampling Depth	199.00 - 239.00	145.66 - 155.66	210.66 - 220.66	245.66 - 255.66	151.16 - 161.16	216.16 - 226.16
	Sampling Date	01/12/2022	01/05/2022	01/05/2022	01/05/2022	01/06/2022	01/06/2022
	SDG	320838831	320837121	320837121	320837121	320836691	320836691
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		0.990 U	0.990 U	0.990 U	0.930 U	1.00 U	1.00 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		1.50 U	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		0.990 U	0.990 U	0.990 U	0.930 U	1.00 U	1.00 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		0.990 U	0.990 U	0.990 U	0.930 U	1.00 U	1.00 U
Perfluorobutanesulfonic acid (PFBS)	600	0.990 U	0.990 U	0.990 U	0.930 U	1.00 U	1.00 U
Perfluorobutanoic acid (PFBA)		0.490 U	0.490 U	0.490 U	0.460 U	0.500 U	0.510 U
Perfluorodecanesulfonic acid (PFDS)		1.50 U	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
Perfluorodecanoic acid (PFDA)		**2.20**	0.990 U	0.990 U	0.930 U	1.00 U	1.00 U
Perfluorododecanoic acid (PFDoA)		**1.70 J**	0.990 U	0.990 U	0.930 U	1.00 U	1.00 U
Perfluoroheptanesulfonic acid (PFHpS)		1.50 U	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
Perfluoroheptanoic acid (PFHpA)		0.990 U	0.990 U	0.990 U	0.930 U	1.00 U	1.00 U
Perfluorohexane sulfonate (PFHxS)	39	0.990 U	0.990 U	0.990 U	0.930 U	1.00 U	1.00 U
Perfluorohexanoic acid (PFHxA)		1.50 U	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
Perfluorononanoic acid (PFNA)	5.9	1.50 U	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
Perfluorooctanesulfonamide (PFOSA)		1.50 U	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
Perfluorooctanesulfonic acid (PFOS)	4	1.50 U	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
Perfluorooctanoic acid (PFOA)	6	1.50 U	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
Perfluoropentanoic acid (PFPeA)		0.490 U	0.490 U	0.490 U	0.460 U	0.500 U	0.510 U
Perfluorotetradecanoic acid (PFTeDA)		1.50 U	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
Perfluorotridecanoic acid (PFTrDA)		1.50 U	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
Perfluoroundecanoic acid (PFUnA)		**13.0**	1.50 U	1.50 U	1.40 U	1.50 U	1.50 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	J2EW3-MW-2-C	J2N-EFF-E	J2N-EFF-F	J2N-EFF-G	MW-130D	MW-18M1
	Field Sample ID	J2EW3-MW-2-C_S22	J2N-EFF-E_S22	J2N-EFF-F_S22	J2N-EFF-G_S22	MW-130D_S22	MW-18M1_S22
	Sampling Depth	251.13 - 261.13	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	320.00 - 330.00	171.00 - 176.00
	Sampling Date	01/06/2022	01/10/2022	01/10/2022	01/10/2022	12/29/2021	12/27/2021
	SDG	320836691	320838001	320838001	320838001	320835011	320834481
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		0.950 U	0.970 U	**1.20 J**	0.950 U	1.00 U	0.990 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		1.40 U	1.50 U	1.40 U	1.40 U	1.50 U	1.50 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		0.950 U	0.970 U	0.960 U	0.950 U	1.00 U	0.990 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		0.950 U	0.970 U	0.960 U	0.950 U	1.00 U	0.990 U
Perfluorobutanesulfonic acid (PFBS)	600	**1.30 J**	0.970 U	0.960 U	0.950 U	1.00 U	0.990 U
Perfluorobutanoic acid (PFBA)		**0.380 J**	0.490 U	**0.250 J**	**0.290 J**	0.510 U	0.500 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.50 U	1.40 U	1.40 U	1.50 U	1.50 U
Perfluorodecanoic acid (PFDA)		0.950 U	0.970 U	0.960 U	0.950 U	1.00 U	0.990 U
Perfluorododecanoic acid (PFDoA)		0.950 U	0.970 U	0.960 U	0.950 U	1.00 U	0.990 U
Perfluoroheptanesulfonic acid (PFHpS)		1.40 U	1.50 U	1.40 U	1.40 U	1.50 U	1.50 U
Perfluoroheptanoic acid (PFHpA)		0.950 U	0.970 U	0.960 U	0.950 U	1.00 U	0.990 U
Perfluorohexane sulfonate (PFHxS)	39	**1.20 J**	0.970 U	0.960 U	0.950 U	1.00 U	0.990 U
Perfluorohexanoic acid (PFHxA)		**1.70 J**	1.50 U	**1.00 J**	**1.60 J**	1.50 U	1.50 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.50 U	1.40 U	1.40 U	1.50 U	1.50 U
Perfluorooctanesulfonamide (PFOSA)		1.40 U	1.50 U	1.40 U	1.40 U	1.50 U	1.50 U
Perfluorooctanesulfonic acid (PFOS)	4	1.40 U	1.50 U	1.40 U	1.40 U	**1.00 J**	1.50 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.50 U	1.40 U	1.40 U	1.50 U	1.50 U
Perfluoropentanoic acid (PFPeA)		**0.900 J**	0.490 U	**0.620 J**	**0.510 J**	0.510 U	0.500 U
Perfluorotetradecanoic acid (PFTeDA)		1.40 U	1.50 U	1.40 U	1.40 U	1.50 U	1.50 U
Perfluorotridecanoic acid (PFTrDA)		1.40 U	1.50 U	1.40 U	1.40 U	1.50 U	1.50 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.50 U	1.40 U	1.40 U	1.50 U	1.50 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**1.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-18M2	MW-289M1	MW-293M1	MW-296M1	MW-296M2	MW-318M1
	Field Sample ID	MW-18M2_S22	MW-289M1_S22	MW-293M1_S22	MW-296M1_S22	MW-296M2_S22	MW-318M1_S22
	Sampling Depth	107.00 - 112.00	0.00 - 0.00	296.26 - 306.27	255.08 - 265.08	214.98 - 224.98	305.79 - 315.81
	Sampling Date	12/27/2021	12/22/2021	01/11/2022	01/10/2022	01/10/2022	12/22/2021
	SDG	320834481	320833751	320838001	320838001	320838001	320833751
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		1.00 U	0.970 U	0.960 U	0.940 U	0.930 U	**5.30**
8:2 Fluorotelomer sulfonate (8:2 FTS)		1.50 U	1.50 U	1.40 U	1.40 U	1.40 U	1.40 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		1.00 U	0.970 U	0.960 U	0.940 U	0.930 U	0.950 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		1.00 U	0.970 U	**0.590 J**	0.940 U	0.930 U	0.950 U
Perfluorobutanesulfonic acid (PFBS)	600	1.00 U	0.970 U	0.960 U	0.940 U	0.930 U	0.950 U
Perfluorobutanoic acid (PFBA)		0.500 U	1.90 U	0.480 U	**0.310 J**	0.460 U	1.90 U
Perfluorodecanesulfonic acid (PFDS)		1.50 U	1.50 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		1.00 U	**2.00**	**14.0**	0.940 U	**1.20 J**	**3.50**
Perfluorododecanoic acid (PFDoA)		1.00 U	**1.10 J**	**1.30 J**	**0.780 J**	**0.490 J**	0.950 U
Perfluoroheptanesulfonic acid (PFHpS)		1.50 U	1.50 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoroheptanoic acid (PFHpA)		1.00 U	0.970 U	0.960 U	0.940 U	0.930 U	0.950 U
Perfluorohexane sulfonate (PFHxS)	39	1.00 U	**0.700 J**	0.960 U	0.940 U	0.930 U	0.950 U
Perfluorohexanoic acid (PFHxA)		1.50 U	1.50 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorononanoic acid (PFNA)	5.9	1.50 U	1.50 U	**20.0**	**0.570 J**	**1.10 J**	**1.70 J**
Perfluorooctanesulfonamide (PFOSA)		1.50 U	1.50 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorooctanesulfonic acid (PFOS)	4	1.50 U	1.50 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorooctanoic acid (PFOA)	6	1.50 U	1.50 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoropentanoic acid (PFPeA)		0.500 U	0.490 U	0.480 U	0.470 U	0.460 U	0.480 U
Perfluorotetradecanoic acid (PFTeDA)		1.50 U	1.50 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorotridecanoic acid (PFTrDA)		1.50 U	1.50 U	**0.990 J**	1.40 U	1.40 U	1.40 U
Perfluoroundecanoic acid (PFUnA)		1.50 U	**10.0**	**15.0**	**3.20**	**1.20 J**	**6.50**
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-318M2	MW-318M2	MW-327M1	MW-327M2	MW-327M3	MW-330M1
	Field Sample ID	MW-318M2_S22	MW-318M2_S22D	MW-327M1_S22	MW-327M2_S22	MW-327M3_S22	MW-330M1_S22
	Sampling Depth	205.80 - 215.82	205.80 - 215.82	296.06 - 306.04	265.01 - 275.01	220.16 - 230.15	313.10 - 323.13
	Sampling Date	12/22/2021	12/22/2021	12/28/2021	12/28/2021	12/28/2021	12/16/2021
	SDG	320833751	320833751	320834481	320834481	320834481	320831661
	Sample Type	**Normal**	**Field Duplicate**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		0.920 U	0.960 U	0.910 U	0.950 U	0.960 U	0.990 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.50 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		0.920 U	0.960 U	0.910 U	0.950 U	0.960 U	0.990 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		0.920 U	0.960 U	0.910 U	0.950 U	0.960 U	0.990 U
Perfluorobutanesulfonic acid (PFBS)	600	0.920 U	0.960 U	0.910 U	**0.450 J**	0.960 U	0.990 U
Perfluorobutanoic acid (PFBA)		1.80 U	1.90 U	0.460 U	**1.80 J**	0.480 U	**1.40 J**
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.50 U
Perfluorodecanoic acid (PFDA)		**1.60 J**	**1.40 J**	**2.00**	**1.40 J**	**2.10**	**23.0**
Perfluorododecanoic acid (PFDoA)		0.920 U	0.960 U	**3.20**	**8.80**	**0.820 J**	**1.40 J**
Perfluoroheptanesulfonic acid (PFHpS)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.50 U
Perfluoroheptanoic acid (PFHpA)		0.920 U	0.960 U	0.910 U	**0.470 J**	0.960 U	**0.910 J**
Perfluorohexane sulfonate (PFHxS)	39	0.920 U	0.960 U	0.910 U	0.950 U	0.960 U	0.990 U
Perfluorohexanoic acid (PFHxA)		**1.30 J**	**1.20 J**	1.40 U	**0.560 J**	1.40 U	**0.680 J**
Perfluorononanoic acid (PFNA)	5.9	**0.560 J**	**0.630 J**	1.40 U	1.40 U	1.40 U	**4.20**
Perfluorooctanesulfonamide (PFOSA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.50 U
Perfluorooctanesulfonic acid (PFOS)	4	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.50 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.50 U
Perfluoropentanoic acid (PFPeA)		**1.10 J**	**1.00 J**	**0.240 J**	**0.900 J**	0.480 U	**1.70 J**
Perfluorotetradecanoic acid (PFTeDA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.50 U
Perfluorotridecanoic acid (PFTrDA)		1.40 U	1.40 U	**0.650 J**	**1.70 J**	1.40 U	**0.880 J**
Perfluoroundecanoic acid (PFUnA)		**5.80**	**5.80**	**17.0**	**17.0**	**4.70**	**18.0**
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-330M1	MW-330M2	MW-330M3	MW-330M3	MW-337D	MW-337M1
	Field Sample ID	MW-330M1_S22D	MW-330M2_S22	MW-330M3_S22	MW-330M3_S22D	MW-337D_S22	MW-337M1_S22
	Sampling Depth	313.10 - 323.13	238.01 - 248.04	154.97 - 164.99	154.97 - 164.99	310.00 - 320.00	243.71 - 253.71
	Sampling Date	12/16/2021	12/16/2021	12/16/2021	12/16/2021	12/20/2021	12/20/2021
	SDG	320831661	320831661	320831661	320831661	320833421	320833421
	Sample Type	**Field Duplicate**	**Normal**	**Normal**	**Field Duplicate**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		0.970 U	0.970 U	1.00 U	0.980 U	1.00 U	1.00 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		1.50 U	1.50 U	1.50 U	1.50 U	1.60 U	1.50 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		0.970 U	0.970 U	1.00 U	0.980 U	1.00 U	1.00 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		0.970 U	0.970 U	1.00 U	0.980 U	1.00 U	1.00 U
Perfluorobutanesulfonic acid (PFBS)	600	0.970 U	0.970 U	1.00 U	0.980 U	1.00 U	1.00 U
Perfluorobutanoic acid (PFBA)		**1.30 J**	**0.400 J**	**0.510 J**	0.490 U	2.10 U	2.10 U
Perfluorodecanesulfonic acid (PFDS)		1.50 U	1.50 U	1.50 U	1.50 U	1.60 U	1.50 U
Perfluorodecanoic acid (PFDA)		**18.0**	**5.10**	**14.0**	**11.0**	**23.0**	**1.00 J**
Perfluorododecanoic acid (PFDoA)		**0.800 J**	**0.650 J**	**0.560 J**	0.980 U	**0.640 J**	1.00 U
Perfluoroheptanesulfonic acid (PFHpS)		1.50 U	1.50 U	1.50 U	1.50 U	1.60 U	1.50 U
Perfluoroheptanoic acid (PFHpA)		**0.870 J**	0.970 U	1.00 U	0.980 U	1.00 U	1.00 U
Perfluorohexane sulfonate (PFHxS)	39	0.970 U	0.970 U	1.00 U	0.980 U	1.00 U	1.00 U
Perfluorohexanoic acid (PFHxA)		**0.580 J**	1.50 U	1.50 U	1.50 U	1.60 U	1.50 U
Perfluorononanoic acid (PFNA)	5.9	**3.50**	**4.70**	**6.50**	**6.00**	**19.0**	**5.80**
Perfluorooctanesulfonamide (PFOSA)		1.50 U	1.50 U	1.50 U	1.50 U	1.60 U	1.50 U
Perfluorooctanesulfonic acid (PFOS)	4	1.50 U	1.50 U	1.50 U	1.50 U	1.60 U	1.50 U
Perfluorooctanoic acid (PFOA)	6	1.50 U	1.50 U	1.50 U	1.50 U	1.60 U	1.50 U
Perfluoropentanoic acid (PFPeA)		**1.60 J**	**0.250 J**	0.500 U	0.490 U	0.520 U	0.510 U
Perfluorotetradecanoic acid (PFTeDA)		1.50 U	1.50 U	1.50 U	1.50 U	**0.530 J**	1.50 U
Perfluorotridecanoic acid (PFTrDA)		1.50 U	**0.820 J**	1.50 U	1.50 U	1.60 U	1.50 U
Perfluoroundecanoic acid (PFUnA)		**16.0**	**5.20**	**6.50**	**5.70**	**16.0**	**1.90 J**
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-340D	MW-340D	MW-345M1	MW-345M1	MW-48M1	MW-48M3
	Field Sample ID	MW-340D_S22	MW-340D_S22D	MW-345M1_S22	MW-345M1_S22D	MW-48M1_S22	MW-48M3_S22
	Sampling Depth	329.60 - 339.60	329.60 - 339.60	311.50 - 321.50	311.50 - 321.50	191.00 - 201.00	131.50 - 142.00
	Sampling Date	12/29/2021	12/29/2021	12/16/2021	12/16/2021	01/04/2022	01/04/2022
	SDG	320835011	320835011	320831661	320831661	320836321	320836321
	Sample Type	**Normal**	**Field Duplicate**	**Normal**	**Field Duplicate**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		**6.50 J**	0.970 U	0.970 U	0.990 U	0.980 U	0.990 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		1.00 U	0.970 U	0.970 U	0.990 U	0.980 U	0.990 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		1.00 U	0.970 U	0.970 U	0.990 U	0.980 U	0.990 U
Perfluorobutanesulfonic acid (PFBS)	600	1.00 U	0.970 U	0.970 U	0.990 U	0.980 U	0.990 U
Perfluorobutanoic acid (PFBA)		**0.310 J**	0.490 U	**0.440 J**	**0.280 J**	0.490 U	0.490 U
Perfluorodecanesulfonic acid (PFDS)		1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Perfluorodecanoic acid (PFDA)		**13.0**	**14.0**	**21.0**	**28.0**	0.980 U	0.990 U
Perfluorododecanoic acid (PFDoA)		**0.830 J**	**0.990 J**	**0.960 J**	**1.70 J**	0.980 U	0.990 U
Perfluoroheptanesulfonic acid (PFHpS)		1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Perfluoroheptanoic acid (PFHpA)		1.00 U	0.970 U	0.970 U	0.990 U	0.980 U	0.990 U
Perfluorohexane sulfonate (PFHxS)	39	1.00 U	0.970 U	0.970 U	0.990 U	0.980 U	0.990 U
Perfluorohexanoic acid (PFHxA)		1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Perfluorononanoic acid (PFNA)	5.9	**3.50**	**3.60**	**3.00**	**4.50**	1.50 U	1.50 U
Perfluorooctanesulfonamide (PFOSA)		1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Perfluorooctanesulfonic acid (PFOS)	4	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Perfluorooctanoic acid (PFOA)	6	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Perfluoropentanoic acid (PFPeA)		0.500 U	0.490 U	0.490 U	0.490 U	0.490 U	0.490 U
Perfluorotetradecanoic acid (PFTeDA)		1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
Perfluorotridecanoic acid (PFTrDA)		1.50 U	1.50 U	1.50 U	**1.30 J**	1.50 U	1.50 U
Perfluoroundecanoic acid (PFUnA)		**19.0**	**20.0**	**20.0**	**23.0**	1.50 U	1.50 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-55D	MW-55M1	MW-55M2	MW-55M3	MW-619M1	MW-619M2
	Field Sample ID	MW-55D_S22	MW-55M1_S22	MW-55M2_S22	MW-55M3_S22	MW-619M1_S22	MW-619M2_S22
	Sampling Depth	255.00 - 265.00	225.00 - 235.00	195.00 - 205.00	164.50 - 174.00	255.10 - 265.10	234.10 - 244.10
	Sampling Date	12/21/2021	12/21/2021	12/21/2021	12/21/2021	12/20/2021	12/20/2021
	SDG	320833421	320833421	320833421	320833421	320833421	320833421
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		0.970 U	0.950 U	0.950 U	1.00 U	0.950 U	0.970 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		1.50 U	1.40 U	1.40 U	1.50 U	1.40 U	1.50 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		0.970 U	0.950 U	0.950 U	1.00 U	0.950 U	0.970 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		0.970 U	0.950 U	0.950 U	1.00 U	0.950 U	0.970 U
Perfluorobutanesulfonic acid (PFBS)	600	0.970 U	0.950 U	0.950 U	1.00 U	0.950 U	0.970 U
Perfluorobutanoic acid (PFBA)		1.90 U	1.90 U	1.90 U	2.00 U	1.90 U	1.90 U
Perfluorodecanesulfonic acid (PFDS)		1.50 U	1.40 U	1.40 U	1.50 U	1.40 U	1.50 U
Perfluorodecanoic acid (PFDA)		0.970 U	0.950 U	0.950 U	1.00 U	0.950 U	0.970 U
Perfluorododecanoic acid (PFDoA)		0.970 U	0.950 U	0.950 U	1.00 U	0.950 U	0.970 U
Perfluoroheptanesulfonic acid (PFHpS)		1.50 U	1.40 U	1.40 U	1.50 U	1.40 U	1.50 U
Perfluoroheptanoic acid (PFHpA)		0.970 U	0.950 U	0.950 U	1.00 U	0.950 U	0.970 U
Perfluorohexane sulfonate (PFHxS)	39	0.970 U	0.950 U	0.950 U	1.00 U	0.950 U	0.970 U
Perfluorohexanoic acid (PFHxA)		1.50 U	1.40 U	1.40 U	1.50 U	1.40 U	1.50 U
Perfluorononanoic acid (PFNA)	5.9	1.50 U	1.40 U	1.40 U	1.50 U	1.40 U	1.50 U
Perfluorooctanesulfonamide (PFOSA)		**0.590 J**	1.40 U	1.40 U	1.50 U	1.40 U	1.50 U
Perfluorooctanesulfonic acid (PFOS)	4	1.50 U	1.40 U	1.40 U	1.50 U	1.40 U	1.50 U
Perfluorooctanoic acid (PFOA)	6	1.50 U	1.40 U	1.40 U	1.50 U	1.40 U	1.50 U
Perfluoropentanoic acid (PFPeA)		0.480 U	0.480 U	0.470 U	0.500 U	0.480 U	0.480 U
Perfluorotetradecanoic acid (PFTeDA)		**0.620 J**	**0.540 J**	1.40 U	1.50 U	1.40 U	**0.620 J**
Perfluorotridecanoic acid (PFTrDA)		1.50 U	1.40 U	1.40 U	1.50 U	1.40 U	1.50 U
Perfluoroundecanoic acid (PFUnA)		1.50 U	1.40 U	1.40 U	1.50 U	1.40 U	1.50 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-620M1	MW-634M1	MW-63D	MW-63M1	MW-63M2	MW-63M3
	Field Sample ID	MW-620M1_S22	MW-634M1_S22	MW-63D_S22	MW-63M1_S22	MW-63M2_S22	MW-63M3_S22
	Sampling Depth	268.60 - 278.60	305.60 - 315.60	375.00 - 380.00	244.00 - 254.00	214.00 - 224.00	182.00 - 192.00
	Sampling Date	12/20/2021	12/22/2021	12/15/2021	12/15/2021	12/15/2021	12/15/2021
	SDG	320833421	320833751	320831661	320831661	320831661	320831661
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		0.960 U	0.980 U	0.990 U	0.980 U	1.00 U	0.970 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		1.40 U	1.50 U	1.50 U	1.50 U	1.60 U	1.50 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		0.960 U	0.980 U	0.990 U	0.980 U	1.00 U	0.970 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		0.960 U	0.980 U	0.990 U	0.980 U	1.00 U	0.970 U
Perfluorobutanesulfonic acid (PFBS)	600	0.960 U	0.980 U	0.990 U	0.980 U	1.00 U	0.970 U
Perfluorobutanoic acid (PFBA)		0.480 U	2.00 U	2.00 U	0.490 U	**0.290 J**	0.490 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.50 U	1.50 U	1.50 U	1.60 U	1.50 U
Perfluorodecanoic acid (PFDA)		0.960 U	0.980 U	0.990 U	0.980 U	**2.20**	0.970 U
Perfluorododecanoic acid (PFDoA)		0.960 U	0.980 U	0.990 U	0.980 U	1.00 U	0.970 U
Perfluoroheptanesulfonic acid (PFHpS)		1.40 U	1.50 U	1.50 U	1.50 U	1.60 U	1.50 U
Perfluoroheptanoic acid (PFHpA)		0.960 U	0.980 U	0.990 U	0.980 U	1.00 U	0.970 U
Perfluorohexane sulfonate (PFHxS)	39	0.960 U	0.980 U	0.990 U	0.980 U	1.00 U	0.970 U
Perfluorohexanoic acid (PFHxA)		1.40 U	1.50 U	1.50 U	1.50 U	1.60 U	1.50 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.50 U	1.50 U	1.50 U	**1.20 J**	1.50 U
Perfluorooctanesulfonamide (PFOSA)		1.40 U	1.50 U	1.50 U	1.50 U	1.60 U	1.50 U
Perfluorooctanesulfonic acid (PFOS)	4	1.40 U	1.50 U	**0.790 J**	**0.590 J**	1.60 U	1.50 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.50 U	1.50 U	1.50 U	1.60 U	1.50 U
Perfluoropentanoic acid (PFPeA)		0.480 U	0.490 U	0.490 U	0.490 U	0.520 U	0.490 U
Perfluorotetradecanoic acid (PFTeDA)		**0.610 J**	1.50 U	1.50 U	1.50 U	1.60 U	1.50 U
Perfluorotridecanoic acid (PFTrDA)		1.40 U	1.50 U	1.50 U	1.50 U	1.60 U	1.50 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.50 U	1.50 U	1.50 U	**1.40 J**	1.50 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.790**	**0.590**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-63S
	Field Sample ID	MW-63S_S22
	Sampling Depth	153.00 - 163.00
	Sampling Date	12/15/2021
	SDG	320831661
	Sample Type	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		0.950 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		1.40 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		0.950 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		0.950 U
Perfluorobutanesulfonic acid (PFBS)	600	0.950 U
Perfluorobutanoic acid (PFBA)		0.470 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U
Perfluorodecanoic acid (PFDA)		0.950 U
Perfluorododecanoic acid (PFDoA)		0.950 U
Perfluoroheptanesulfonic acid (PFHpS)		1.40 U
Perfluoroheptanoic acid (PFHpA)		0.950 U
Perfluorohexane sulfonate (PFHxS)	39	0.950 U
Perfluorohexanoic acid (PFHxA)		1.40 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U
Perfluorooctanesulfonamide (PFOSA)		1.40 U
Perfluorooctanesulfonic acid (PFOS)	4	1.40 U
Perfluorooctanoic acid (PFOA)	6	1.40 U
Perfluoropentanoic acid (PFPeA)		0.470 U
Perfluorotetradecanoic acid (PFTeDA)		1.40 U
Perfluorotridecanoic acid (PFTrDA)		1.40 U
Perfluoroundecanoic acid (PFUnA)		1.40 U
†PFOS + PFOA (EPA)		**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	C-4D	C-4D	C-4M	C-4S	C-7D	C-7M
	Field Sample ID	C-4D_S22	C-4D_S22D	C-4M_S22	C-4S_S22	C-7D_S22	C-7M_S22
	Sampling Depth	310.00 - 350.00	310.00 - 350.00	260.00 - 300.00	200.00 - 250.00	295.00 - 335.00	247.00 - 287.00
	Sampling Date	01/13/2022	01/13/2022	01/13/2022	01/13/2022	01/12/2022	01/12/2022
	SDG	320838831	320838831	320838831	320838831	320838831	320838831
	Sample Type	**Normal**	**Field Duplicate**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**4.30**	**4.50**	**5.90**	**7.20**	**4.80**	**4.20**
§Sum of All Compounds Detected		**10.6**	**10.7**	**21.8**	**23.3**	**19.4**	**11.0**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	C-7S	J2EW3-MW1-A	J2EW3-MW1-B	J2EW3-MW1-C	J2EW3-MW-2-A	J2EW3-MW-2-B
	Field Sample ID	C-7S_S22	J2EW3-MW1-A_S22	J2EW3-MW1-B_S22	J2EW3-MW1-C_S22	J2EW3-MW-2-A_S22	J2EW3-MW-2-B_S22
	Sampling Depth	199.00 - 239.00	145.66 - 155.66	210.66 - 220.66	245.66 - 255.66	151.16 - 161.16	216.16 - 226.16
	Sampling Date	01/12/2022	01/05/2022	01/05/2022	01/05/2022	01/06/2022	01/06/2022
	SDG	320838831	320837121	320837121	320837121	320836691	320836691
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**2.20**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
§Sum of All Compounds Detected		**16.9**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	J2EW3-MW-2-C	J2N-EFF-E	J2N-EFF-F	J2N-EFF-G	MW-130D	MW-18M1
	Field Sample ID	J2EW3-MW-2-C_S22	J2N-EFF-E_S22	J2N-EFF-F_S22	J2N-EFF-G_S22	MW-130D_S22	MW-18M1_S22
	Sampling Depth	251.13 - 261.13	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	320.00 - 330.00	171.00 - 176.00
	Sampling Date	01/06/2022	01/10/2022	01/10/2022	01/10/2022	12/29/2021	12/27/2021
	SDG	320836691	320838001	320838001	320838001	320835011	320834481
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
§Sum of All Compounds Detected		**5.48**	**0.00**	**3.07**	**2.40**	**1.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-18M2	MW-289M1	MW-293M1	MW-296M1	MW-296M2	MW-318M1
	Field Sample ID	MW-18M2_S22	MW-289M1_S22	MW-293M1_S22	MW-296M1_S22	MW-296M2_S22	MW-318M1_S22
	Sampling Depth	107.00 - 112.00	0.00 - 0.00	296.26 - 306.27	255.08 - 265.08	214.98 - 224.98	305.79 - 315.81
	Sampling Date	12/27/2021	12/22/2021	01/11/2022	01/10/2022	01/10/2022	12/22/2021
	SDG	320834481	320833751	320838001	320838001	320838001	320833751
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**2.00**	**34.0**	**0.00**	**0.00**	**3.50**
§Sum of All Compounds Detected		**0.00**	**13.8**	**51.9**	**4.86**	**3.99**	**17.0**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-318M2	MW-318M2	MW-327M1	MW-327M2	MW-327M3	MW-330M1
	Field Sample ID	MW-318M2_S22	MW-318M2_S22D	MW-327M1_S22	MW-327M2_S22	MW-327M3_S22	MW-330M1_S22
	Sampling Depth	205.80 - 215.82	205.80 - 215.82	296.06 - 306.04	265.01 - 275.01	220.16 - 230.15	313.10 - 323.13
	Sampling Date	12/22/2021	12/22/2021	12/28/2021	12/28/2021	12/28/2021	12/16/2021
	SDG	320833751	320833751	320834481	320834481	320834481	320831661
	Sample Type	**Normal**	**Field Duplicate**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**2.00**	**0.00**	**2.10**	**27.2**
§Sum of All Compounds Detected		**10.4**	**10.0**	**23.1**	**33.1**	**7.62**	**52.2**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-330M1	MW-330M2	MW-330M3	MW-330M3	MW-337D	MW-337M1
	Field Sample ID	MW-330M1_S22D	MW-330M2_S22	MW-330M3_S22	MW-330M3_S22D	MW-337D_S22	MW-337M1_S22
	Sampling Depth	313.10 - 323.13	238.01 - 248.04	154.97 - 164.99	154.97 - 164.99	310.00 - 320.00	243.71 - 253.71
	Sampling Date	12/16/2021	12/16/2021	12/16/2021	12/16/2021	12/20/2021	12/20/2021
	SDG	320831661	320831661	320831661	320831661	320833421	320833421
	Sample Type	**Field Duplicate**	**Normal**	**Normal**	**Field Duplicate**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**21.5**	**9.80**	**20.5**	**17.0**	**42.0**	**5.80**
§Sum of All Compounds Detected		**42.7**	**17.1**	**28.1**	**22.7**	**59.2**	**8.70**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-340D	MW-340D	MW-345M1	MW-345M1	MW-48M1	MW-48M3
	Field Sample ID	MW-340D_S22	MW-340D_S22D	MW-345M1_S22	MW-345M1_S22D	MW-48M1_S22	MW-48M3_S22
	Sampling Depth	329.60 - 339.60	329.60 - 339.60	311.50 - 321.50	311.50 - 321.50	191.00 - 201.00	131.50 - 142.00
	Sampling Date	12/29/2021	12/29/2021	12/16/2021	12/16/2021	01/04/2022	01/04/2022
	SDG	320835011	320835011	320831661	320831661	320836321	320836321
	Sample Type	**Normal**	**Field Duplicate**	**Normal**	**Field Duplicate**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**16.5**	**17.6**	**24.0**	**32.5**	**0.00**	**0.00**
§Sum of All Compounds Detected		**43.1**	**38.6**	**45.4**	**58.8**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-55D	MW-55M1	MW-55M2	MW-55M3	MW-619M1	MW-619M2
	Field Sample ID	MW-55D_S22	MW-55M1_S22	MW-55M2_S22	MW-55M3_S22	MW-619M1_S22	MW-619M2_S22
	Sampling Depth	255.00 - 265.00	225.00 - 235.00	195.00 - 205.00	164.50 - 174.00	255.10 - 265.10	234.10 - 244.10
	Sampling Date	12/21/2021	12/21/2021	12/21/2021	12/21/2021	12/20/2021	12/20/2021
	SDG	320833421	320833421	320833421	320833421	320833421	320833421
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
§Sum of All Compounds Detected		**1.21**	**0.540**	**0.00**	**0.00**	**0.00**	**0.620**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-620M1	MW-634M1	MW-63D	MW-63M1	MW-63M2	MW-63M3
	Field Sample ID	MW-620M1_S22	MW-634M1_S22	MW-63D_S22	MW-63M1_S22	MW-63M2_S22	MW-63M3_S22
	Sampling Depth	268.60 - 278.60	305.60 - 315.60	375.00 - 380.00	244.00 - 254.00	214.00 - 224.00	182.00 - 192.00
	Sampling Date	12/20/2021	12/22/2021	12/15/2021	12/15/2021	12/15/2021	12/15/2021
	SDG	320833421	320833751	320831661	320831661	320831661	320831661
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**2.20**	**0.00**
§Sum of All Compounds Detected		**0.610**	**0.00**	**0.790**	**0.590**	**5.09**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-63S
	Field Sample ID	MW-63S_S22
	Sampling Depth	153.00 - 163.00
	Sampling Date	12/15/2021
	SDG	320831661
	Sample Type	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**
§Sum of All Compounds Detected		**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

KGS 2022 J2 North PFAS Spring - J3 Range

	Location	MW-237S
	Field Sample ID	MW-237S_S22
	Sampling Depth	49.00 - 59.00
	Sampling Date	12/29/2021
	SDG	320835011
	Sample Type	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		0.990 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		1.50 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		0.990 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		0.990 U
Perfluorobutanesulfonic acid (PFBS)	600	0.990 U
Perfluorobutanoic acid (PFBA)		0.500 U
Perfluorodecanesulfonic acid (PFDS)		1.50 U
Perfluorodecanoic acid (PFDA)		0.990 U
Perfluorododecanoic acid (PFDoA)		0.990 U
Perfluoroheptanesulfonic acid (PFHpS)		1.50 U
Perfluoroheptanoic acid (PFHpA)		0.990 U
Perfluorohexane sulfonate (PFHxS)	39	0.990 U
Perfluorohexanoic acid (PFHxA)		1.50 U
Perfluorononanoic acid (PFNA)	5.9	1.50 U
Perfluorooctanesulfonamide (PFOSA)		1.50 U
Perfluorooctanesulfonic acid (PFOS)	4	1.50 U
Perfluorooctanoic acid (PFOA)	6	1.50 U
Perfluoropentanoic acid (PFPeA)		0.500 U
Perfluorotetradecanoic acid (PFTeDA)		1.50 U
Perfluorotridecanoic acid (PFTrDA)		1.50 U
Perfluoroundecanoic acid (PFUnA)		1.50 U
†PFOS + PFOA (EPA)		**0.00**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-237S
	Field Sample ID	MW-237S_S22
	Sampling Depth	49.00 - 59.00
	Sampling Date	12/29/2021
	SDG	320835011
	Sample Type	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)
§Sum of All Compounds Detected		**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

KGS 2022 J2 North PFAS Spring - Lima Range

	Location	MW-236S
	Field Sample ID	MW-236S_S22
	Sampling Depth	96.00 - 106.00
	Sampling Date	01/11/2022
	SDG	320838001
	Sample Type	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		0.960 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		1.40 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		0.960 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		0.960 U
Perfluorobutanesulfonic acid (PFBS)	600	0.960 U
Perfluorobutanoic acid (PFBA)		**1.50 J**
Perfluorodecanesulfonic acid (PFDS)		1.40 U
Perfluorodecanoic acid (PFDA)		0.960 U
Perfluorododecanoic acid (PFDoA)		0.960 U
Perfluoroheptanesulfonic acid (PFHpS)		1.40 U
Perfluoroheptanoic acid (PFHpA)		**1.20 J**
Perfluorohexane sulfonate (PFHxS)	39	0.960 U
Perfluorohexanoic acid (PFHxA)		**1.20 J**
Perfluorononanoic acid (PFNA)	5.9	1.40 U
Perfluorooctanesulfonamide (PFOSA)		1.40 U
Perfluorooctanesulfonic acid (PFOS)	4	**2.30**
Perfluorooctanoic acid (PFOA)	6	**1.30 J**
Perfluoropentanoic acid (PFPeA)		**0.640 J**
Perfluorotetradecanoic acid (PFTeDA)		1.40 U
Perfluorotridecanoic acid (PFTrDA)		1.40 U
Perfluoroundecanoic acid (PFUnA)		1.40 U
†PFOS + PFOA (EPA)		**3.60**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**2.30**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	MW-236S
	Field Sample ID	MW-236S_S22
	Sampling Depth	96.00 - 106.00
	Sampling Date	01/11/2022
	SDG	320838001
	Sample Type	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)
§Sum of All Compounds Detected		**8.14**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

KGS 2022 J3 Range SPM Spring - J3 Range

	Location	J3-EFF	J3-EFF	J3-EFF	J3-EFF	J3-INF	J3-INF
	Field Sample ID	J3-EFF_1Q22	J3-EFF_2Q22	J3-EFF_3Q22	J3-EFF_4Q22	J3-INF_1Q22	J3-INF_2Q22
	Sampling Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
	Sampling Date	01/24/2022	04/28/2022	07/11/2022	10/11/2022	01/24/2022	04/28/2022
	SDG	320842111	320873411	320899771	320931731	320842111	320873411
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		0.940 U	0.960 U	0.930 U	0.940 U	0.950 U	0.960 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		0.940 U	0.960 U	0.930 U	0.940 U	0.950 U	0.960 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		0.940 U	0.960 U	0.930 U	0.940 U	0.950 U	0.960 U
Perfluorobutanesulfonic acid (PFBS)	600	0.940 U	0.960 U	0.930 U	0.940 U	0.950 U	0.960 U
Perfluorobutanoic acid (PFBA)		**0.240 J**	0.480 U	0.470 U	0.470 U	**0.250 J**	0.480 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.940 U	0.960 U	0.930 U	0.940 U	0.950 U	0.960 U
Perfluorododecanoic acid (PFDoA)		0.940 U	0.960 U	0.930 U	0.940 U	0.950 U	0.960 U
Perfluoroheptanesulfonic acid (PFHpS)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoroheptanoic acid (PFHpA)		0.940 U	0.960 U	0.930 U	0.940 U	0.950 U	0.960 U
Perfluorohexane sulfonate (PFHxS)	39	0.940 U	0.960 U	0.930 U	0.940 U	**1.10 J**	**0.480 J**
Perfluorohexanoic acid (PFHxA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorooctanesulfonic acid (PFOS)	4	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoropentanoic acid (PFPeA)		0.470 U	0.480 U	0.470 U	0.470 U	0.470 U	0.480 U
Perfluorotetradecanoic acid (PFTeDA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluorotridecanoic acid (PFTrDA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	J3-INF	J3-INF
	Field Sample ID	J3-INF_3Q22	J3-INF_4Q22
	Sampling Depth	0.00 - 0.00	0.00 - 0.00
	Sampling Date	07/11/2022	10/11/2022
	SDG	320899771	320931731
	Sample Type	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		0.950 U	0.970 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		1.40 U	1.50 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		0.950 U	0.970 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		0.950 U	0.970 U
Perfluorobutanesulfonic acid (PFBS)	600	0.950 U	0.970 U
Perfluorobutanoic acid (PFBA)		0.480 U	0.480 U
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.50 U
Perfluorodecanoic acid (PFDA)		0.950 U	0.970 U
Perfluorododecanoic acid (PFDoA)		0.950 U	0.970 U
Perfluoroheptanesulfonic acid (PFHpS)		1.40 U	1.50 U
Perfluoroheptanoic acid (PFHpA)		0.950 U	0.970 U
Perfluorohexane sulfonate (PFHxS)	39	**1.10 J**	**1.10 J**
Perfluorohexanoic acid (PFHxA)		1.40 U	1.50 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.50 U
Perfluorooctanesulfonamide (PFOSA)		1.40 U	1.50 U
Perfluorooctanesulfonic acid (PFOS)	4	1.40 U	1.50 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.50 U
Perfluoropentanoic acid (PFPeA)		0.480 U	0.480 U
Perfluorotetradecanoic acid (PFTeDA)		1.40 U	1.50 U
Perfluorotridecanoic acid (PFTrDA)		1.40 U	1.50 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.50 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	J3-EFF	J3-EFF	J3-EFF	J3-EFF	J3-INF	J3-INF
	Field Sample ID	J3-EFF_1Q22	J3-EFF_2Q22	J3-EFF_3Q22	J3-EFF_4Q22	J3-INF_1Q22	J3-INF_2Q22
	Sampling Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
	Sampling Date	01/24/2022	04/28/2022	07/11/2022	10/11/2022	01/24/2022	04/28/2022
	SDG	320842111	320873411	320899771	320931731	320842111	320873411
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
§Sum of All Compounds Detected		**0.240**	**0.00**	**0.00**	**0.00**	**1.35**	**0.480**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	J3-INF	J3-INF
	Field Sample ID	J3-INF_3Q22	J3-INF_4Q22
	Sampling Depth	0.00 - 0.00	0.00 - 0.00
	Sampling Date	07/11/2022	10/11/2022
	SDG	320899771	320931731
	Sample Type	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)
§Sum of All Compounds Detected		**1.10**	**1.10**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

KGS 2023 J2 North PFAS Drilling - J2 Range Northern

	Location	BH-734	BH-734	BH-734	BH-734	BH-734	BH-734
	Field Sample ID	BH-734-152-157	BH-734-162-167	BH-734-182-187	BH-734-192-197	BH-734-212-217	BH-734-222-227
	Sampling Depth	152.00 - 157.00	162.00 - 167.00	182.00 - 187.00	192.00 - 197.00	212.00 - 217.00	222.00 - 227.00
	Sampling Date	03/03/2023	03/03/2023	03/06/2023	03/07/2023	03/09/2023	03/09/2023
	SDG	23-0283_EDD	23-0283_EDD	23-0283_EDD	23-0283_EDD	23-0305_EDD	23-0305_EDD
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)		2.13 U	2.19 U	2.08 U	2.03 U	2.31 U	2.22 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)		8.71 U	8.97 U	8.51 U	8.29 U	9.45 U	9.08 U
3-Perfluoroheptyl propanoic acid (7:3FTCA)		10.2 U	10.5 U	9.96 U	9.70 U	11.1 U	10.6 U
3-Perfluoropropyl propanoic acid (3:3FTCA)		3.26 U	3.36 U	3.19 U	3.10 U	3.54 U	3.40 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		1.36 U	1.40 U	1.32 U	1.29 U	1.47 U	1.41 U
4:2 Fluorotelomer sulfonic acid (4:2 FTS)		2.58 U	2.66 U	2.52 U	2.45 U	2.80 U	2.69 U
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		2.89 U	2.98 U	2.82 U	2.75 U	3.14 U	3.01 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)		1.79 U	1.84 U	1.75 U	1.70 U	1.94 U	1.87 U
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)		1.37 U	1.41 U	1.33 U	1.30 U	1.48 U	1.42 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	6	1.46 U	1.51 U	1.43 U	1.39 U	1.58 U	1.52 U
N-Ethyl perfluorooctanesulfonamide (NEtFOSA)		0.195 U	0.201 U	0.190 U	0.186 U	0.211 U	0.203 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		1.12 U	1.15 U	1.09 U	1.06 U	1.21 U	1.16 U
N-Ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)		2.83 U	2.92 U	2.77 U	2.70 U	3.07 U	2.95 U
N-Methyl heptadecafluorooctanesulfonamide (NMeFOSA)		0.389 U	0.400 U	0.380 U	0.370 U	0.422 U	0.405 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		1.28 U	1.32 U	1.25 U	1.22 U	1.39 U	1.33 U
N-Methyl perfluorooctanesulfonamidoethanol (NMeFOSE)		3.22 U	3.32 U	3.15 U	3.07 U	3.50 U	3.36 U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		1.48 U	1.53 U	1.45 U	1.41 U	1.61 U	1.55 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)		0.414 U	0.427 U	0.405 U	0.394 U	0.449 U	0.432 U
Perfluoro-3-methoxypropanoic acid (PFMPA)		1.23 U	1.26 U	1.20 U	1.17 U	1.33 U	1.28 U
Perfluoro-4-methoxybutanoic acid (PFMBA)		1.17 U	1.21 U	1.15 U	1.12 U	1.27 U	1.22 U
Perfluorobutanesulfonic acid (PFBS)	600	0.346 U	0.356 U	0.338 U	0.329 U	0.375 U	0.360 U
Perfluorobutanoic acid (PFBA)		1.17 U	1.20 U	1.14 U	1.11 U	1.26 U	1.22 U

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	BH-734	BH-734	BH-734	BH-734	BH-734	BH-734
	Field Sample ID	BH-734-222-227-D	BH-734-262-267	BH-734-272-277	BH-734-282-287	BH-734-292-297	BH-734-302-307
	Sampling Depth	222.00 - 227.00	262.00 - 267.00	272.00 - 277.00	282.00 - 287.00	292.00 - 297.00	302.00 - 307.00
	Sampling Date	03/09/2023	03/14/2023	03/15/2023	03/16/2023	03/16/2023	03/17/2023
	SDG	23-0305_EDD	23-0325_EDD	23-0325_EDD	23-0325_EDD	23-0325_EDD	23-0325_EDD
	Sample Type	**Field Duplicate**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)		2.20 U	2.14 U	2.30 U	2.23 U	2.14 U	2.32 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)		9.01 U	8.76 U	9.43 U	9.12 U	8.76 U	9.51 U
3-Perfluoroheptyl propanoic acid (7:3FTCA)		10.5 U	10.3 U	11.0 U	10.7 U	10.3 U	11.1 U
3-Perfluoropropyl propanoic acid (3:3FTCA)		3.37 U	3.28 U	3.53 U	3.42 U	3.28 U	3.56 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		1.40 U	1.36 U	1.47 U	1.42 U	1.36 U	1.48 U
4:2 Fluorotelomer sulfonic acid (4:2 FTS)		2.67 U	2.59 U	2.79 U	2.70 U	2.59 U	2.81 U
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		2.99 U	2.91 U	3.13 U	3.03 U	2.91 U	3.16 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)		1.85 U	1.80 U	1.94 U	1.87 U	1.80 U	1.95 U
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)		1.41 U	1.37 U	1.48 U	1.43 U	1.37 U	1.49 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	6	1.51 U	1.47 U	1.58 U	1.53 U	1.47 U	1.59 U
N-Ethyl perfluorooctanesulfonamide (NEtFOSA)		0.202 U	0.196 U	0.211 UJ	0.204 U	0.196 U	0.213 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		1.15 U	1.12 U	1.21 U	1.17 U	1.12 U	1.22 U
N-Ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)		2.93 U	2.85 U	3.07 U	2.97 U	2.85 U	3.09 U
N-Methyl heptadecafluorooctanesulfonamide (NMeFOSA)		0.402 U	0.391 U	0.421 UJ	0.407 U	0.391 U	0.424 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		1.32 U	1.29 U	1.38 U	1.34 U	1.29 U	1.40 U
N-Methyl perfluorooctanesulfonamidoethanol (NMeFOSE)		3.33 U	3.24 U	3.49 U	3.37 U	3.24 U	3.52 U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		1.54 U	1.49 U	1.61 U	1.55 U	1.49 U	1.62 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)		0.428 U	0.417 U	0.448 U	0.434 U	0.417 U	0.452 U
Perfluoro-3-methoxypropanoic acid (PFMPA)		1.27 U	1.23 U	1.33 U	1.28 U	1.23 U	1.34 U
Perfluoro-4-methoxybutanoic acid (PFMBA)		1.21 U	1.18 U	1.27 U	1.23 U	1.18 U	1.28 U
Perfluorobutanesulfonic acid (PFBS)	600	0.358 U	0.348 U	0.374 U	0.362 U	0.348 U	0.377 U
Perfluorobutanoic acid (PFBA)		1.21 U	1.17 U	1.26 U	1.22 U	1.17 U	1.27 U

	Location	BH-734	BH-734	BH-734	BH-734	BH-734	BH-735
	Field Sample ID	BH-734-312-317	BH-734-322-327	BH-734-322-327-D	BH-734-332-337	BH-734-345.5-350.5	BH-735-147
	Sampling Depth	312.00 - 317.00	322.00 - 327.00	322.00 - 327.00	332.00 - 327.00	345.50 - 350.50	147.00 - 147.00
	Sampling Date	03/17/2023	03/20/2023	03/20/2023	03/21/2023	03/21/2023	03/24/2023
	SDG	23-0325_EDD	23-0350_EDD	23-0350_EDD	23-0350_EDD	23-0350_EDD	23-0384_EDD
	Sample Type	**Normal**	**Normal**	**Field Duplicate**	**Normal**	**Normal**	**Normal**
PFAS	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)		2.27 U	2.39 U	2.28 U	2.22 U	2.25 U	2.20 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)		9.29 U	9.78 U	9.31 U	9.08 U	9.20 U	9.01 U
3-Perfluoroheptyl propanoic acid (7:3FTCA)		10.9 U	11.4 U	10.9 U	10.6 U	10.8 U	10.5 U
3-Perfluoropropyl propanoic acid (3:3FTCA)		3.48 U	3.66 U	3.49 U	3.40 U	3.44 U	3.37 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		1.45 U	1.52 U	1.45 U	1.41 U	1.43 U	1.40 U
4:2 Fluorotelomer sulfonic acid (4:2 FTS)		2.75 U	2.89 U	2.76 U	2.69 U	2.72 U	2.67 U
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		3.08 U	3.25 U	3.09 U	3.01 U	3.05 U	2.99 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)		1.91 U	2.01 U	1.91 U	1.87 U	1.89 U	1.85 U
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)		1.46 U	1.53 U	1.46 U	1.42 U	1.44 U	1.41 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	6	1.56 U	1.64 U	1.56 U	1.52 U	1.54 U	1.51 U
N-Ethyl perfluorooctanesulfonamide (NEtFOSA)		0.208 U	0.219 U	0.208 U	0.203 U	0.206 U	0.202 UJ
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		1.19 U	1.25 U	1.19 U	1.16 U	1.18 U	1.15 U
N-Ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)		3.02 U	3.18 U	3.03 U	2.95 U	2.99 U	2.93 UJ
N-Methyl heptadecafluorooctanesulfonamide (NMeFOSA)		0.415 U	0.436 U	0.415 U	0.405 U	0.410 U	0.402 UJ
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		1.36 U	1.44 U	1.37 U	1.33 U	1.35 U	1.32 U
N-Methyl perfluorooctanesulfonamidoethanol (NMeFOSE)		3.44 U	3.62 U	3.44 U	3.36 U	3.40 U	3.33 UJ
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		1.58 U	1.67 U	1.59 U	1.55 U	1.57 U	1.54 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)		0.442 U	0.465 U	0.443 U	0.432 U	0.437 U	0.428 U
Perfluoro-3-methoxypropanoic acid (PFMPA)		1.31 U	1.38 U	1.31 U	1.28 U	1.29 U	1.27 U
Perfluoro-4-methoxybutanoic acid (PFMBA)		1.25 U	1.32 U	1.25 U	1.22 U	1.24 U	1.21 U
Perfluorobutanesulfonic acid (PFBS)	600	0.369 U	0.388 U	0.370 U	0.360 U	0.365 U	0.358 U
Perfluorobutanoic acid (PFBA)		1.24 U	1.31 U	1.25 U	1.22 U	1.23 U	1.21 U

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	BH-735	BH-735	BH-735	BH-735	BH-735	BH-735
	Field Sample ID	BH-735-157	BH-735-167	BH-735-177	BH-735-177-D	BH-735-187	BH-735-197
	Sampling Depth	157.00 - 157.00	167.00 - 167.00	177.00 - 177.00	177.00 - 177.00	187.00 - 187.00	197.00 - 197.00
	Sampling Date	03/24/2023	03/28/2023	03/28/2023	03/28/2023	03/28/2023	03/28/2023
	SDG	23-0384_EDD	23-0384_EDD	23-0384_EDD	23-0384_EDD	23-0384_EDD	23-0384_EDD
	Sample Type	**Normal**	**Normal**	**Normal**	**Field Duplicate**	**Normal**	**Normal**
PFAS	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)		2.08 U	2.20 U	2.21 U	2.23 U	2.02 U	2.18 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)		8.53 U	9.01 U	9.05 U	9.12 U	8.27 U	8.92 U
3-Perfluoroheptyl propanoic acid (7:3FTCA)		9.98 U	10.5 U	10.6 U	10.7 U	9.68 U	10.4 U
3-Perfluoropropyl propanoic acid (3:3FTCA)		3.19 U	3.37 U	3.39 U	3.42 U	3.10 U	3.34 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		1.33 U	1.40 U	1.41 U	1.42 U	1.29 U	1.39 U
4:2 Fluorotelomer sulfonic acid (4:2 FTS)		2.52 U	2.67 U	2.68 U	2.70 U	2.45 U	2.64 U
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		2.83 U	2.99 U	**6.08 J**	3.03 U	**3.36 J**	**4.87 J**
8:2 Fluorotelomer sulfonic acid (8:2 FTS)		1.75 U	1.85 U	1.86 U	1.87 U	1.70 U	1.83 U
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)		1.34 U	1.41 U	1.42 U	1.43 U	1.30 U	1.40 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	6	1.43 U	1.51 U	1.52 U	1.53 U	1.39 U	1.50 U
N-Ethyl perfluorooctanesulfonamide (NEtFOSA)		0.191 U	0.202 U	0.202 U	0.204 U	0.185 U	0.200 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		1.09 U	1.15 U	1.16 U	1.17 U	1.06 U	1.14 U
N-Ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)		2.77 U	2.93 U	2.94 U	2.97 U	2.69 U	2.90 U
N-Methyl heptadecafluorooctanesulfonamide (NMeFOSA)		0.380 U	0.402 U	0.404 U	0.407 U	0.369 U	0.398 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		1.25 U	1.32 U	1.33 U	1.34 U	1.22 U	1.31 U
N-Methyl perfluorooctanesulfonamidoethanol (NMeFOSE)		3.15 U	3.33 U	3.35 U	3.37 U	3.06 U	3.30 U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		1.45 U	1.54 U	1.54 U	1.55 U	1.41 U	1.52 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)		0.405 U	0.428 U	0.430 U	0.434 U	0.393 U	0.424 U
Perfluoro-3-methoxypropanoic acid (PFMPA)		1.20 U	1.27 U	1.27 U	1.28 U	1.17 U	1.26 U
Perfluoro-4-methoxybutanoic acid (PFMBA)		1.15 U	1.21 U	1.22 U	1.23 U	1.11 U	1.20 U
Perfluorobutanesulfonic acid (PFBS)	600	0.338 U	0.358 U	0.359 U	0.362 U	0.328 U	0.354 U
Perfluorobutanoic acid (PFBA)		1.14 U	1.21 U	1.21 U	1.22 U	1.11 U	1.19 U

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	BH-735	BH-735	BH-735	BH-735	BH-735	BH-735
	Field Sample ID	BH-735-202-207	BH-735-212-217	BH-735-222-227	BH-735-232-237	BH-735-242-247	BH-735-252-257
	Sampling Depth	202.00 - 207.00	212.00 - 217.00	222.00 - 227.00	232.00 - 237.00	242.00 - 247.00	252.00 - 257.00
	Sampling Date	03/29/2023	03/29/2023	03/29/2023	03/30/2023	03/30/2023	03/30/2023
	SDG	23-0384_EDD	23-0384_EDD	23-0384_EDD	23-0396_EDD	23-0396_EDD	23-0396_EDD
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)		2.11 U	2.05 U	2.60 U	2.07 U	2.12 U	1.92 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)		8.64 U	8.37 U	10.6 U	8.46 U	8.69 U	7.84 U
3-Perfluoroheptyl propanoic acid (7:3FTCA)		10.1 U	9.79 U	12.5 U	9.91 U	10.2 U	9.17 U
3-Perfluoropropyl propanoic acid (3:3FTCA)		3.24 U	3.13 U	3.99 U	3.17 U	3.26 U	2.93 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		1.34 U	1.30 U	1.66 U	1.32 U	1.35 U	1.22 U
4:2 Fluorotelomer sulfonic acid (4:2 FTS)		2.56 U	2.48 U	3.15 U	2.50 U	2.57 U	2.32 U
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		**2.91 J**	**2.59 J**	**7.66**	2.81 U	**3.70 J**	2.60 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)		1.78 U	1.72 U	2.19 U	1.74 U	1.79 U	1.61 U
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)		1.35 U	1.31 U	1.67 U	1.33 U	1.36 U	1.23 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	6	1.45 U	1.40 U	1.79 U	1.42 U	1.46 U	1.31 U
N-Ethyl perfluorooctanesulfonamide (NEtFOSA)		0.193 U	0.187 U	0.238 UJ	0.189 U	0.195 U	0.175 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		1.11 U	1.07 U	1.36 U	1.08 U	1.11 U	1.00 U
N-Ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)		2.81 U	2.72 U	3.46 UJ	2.75 U	2.83 U	2.55 U
N-Methyl heptadecafluorooctanesulfonamide (NMeFOSA)		0.386 U	0.373 U	0.475 UJ	0.378 U	0.388 U	0.350 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		1.27 U	1.23 U	1.56 U	1.24 U	1.28 U	1.15 U
N-Methyl perfluorooctanesulfonamidoethanol (NMeFOSE)		3.20 U	3.10 U	3.94 UJ	3.13 U	3.22 U	2.90 U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		1.47 U	1.43 U	1.81 U	1.44 U	1.48 U	1.34 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)		0.411 U	0.398 U	0.506 U	0.402 U	0.413 U	0.373 U
Perfluoro-3-methoxypropanoic acid (PFMPA)		1.22 U	1.18 U	1.50 U	1.19 U	1.22 U	1.10 U
Perfluoro-4-methoxybutanoic acid (PFMBA)		1.16 U	1.13 U	1.43 U	1.14 U	1.17 U	1.05 U
Perfluorobutanesulfonic acid (PFBS)	600	0.343 U	0.332 U	0.422 U	0.336 U	0.345 U	0.311 U
Perfluorobutanoic acid (PFBA)		1.16 U	1.12 U	1.42 U	1.13 U	1.16 U	1.05 U

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	BH-735	BH-735	BH-735	BH-735	BH-735	BH-735
	Field Sample ID	BH-735-262-267	BH-735-272-277	BH-735-282-287	BH-735-292-297	BH-735-302-307	BH-735-302-307-D
	Sampling Depth	262.00 - 267.00	272.00 - 277.00	282.00 - 287.00	292.00 - 297.00	302.00 - 307.00	302.00 - 307.00
	Sampling Date	03/30/2023	03/31/2023	04/03/2023	04/03/2023	04/04/2023	04/04/2023
	SDG	23-0396_EDD	23-0396_EDD	23-0396_EDD	23-0396_EDD	23-0408_EDD	23-0408_EDD
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Field Duplicate**
PFAS	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)		2.12 U	2.11 U	2.15 U	2.11 U	2.06 U	2.17 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)		8.66 U	8.63 U	8.80 U	8.64 U	8.42 U	8.88 U
3-Perfluoroheptyl propanoic acid (7:3FTCA)		10.1 U	10.1 U	10.3 U	10.1 U	9.85 U	10.4 U
3-Perfluoropropyl propanoic acid (3:3FTCA)		3.24 U	3.23 U	3.29 U	3.24 U	3.15 U	3.33 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		1.35 U	1.34 U	1.37 U	1.34 U	1.31 U	1.38 U
4:2 Fluorotelomer sulfonic acid (4:2 FTS)		2.56 U	2.55 U	2.60 U	2.56 U	2.49 U	2.63 U
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		2.87 U	2.86 U	2.92 U	2.87 U	2.79 U	2.95 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)		1.78 U	1.77 U	1.81 U	1.78 U	1.73 U	1.82 U
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)		1.36 U	1.35 U	1.38 U	1.35 U	1.32 U	1.39 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	6	1.45 U	1.45 U	1.48 U	1.45 U	1.41 U	1.49 U
N-Ethyl perfluorooctanesulfonamide (NEtFOSA)		0.194 U	0.193 U	0.197 U	0.193 U	0.188 U	0.199 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		1.11 U	1.10 U	1.13 U	1.11 U	1.08 U	1.14 U
N-Ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)		2.82 U	2.80 U	2.86 U	2.81 U	2.74 U	2.89 U
N-Methyl heptadecafluorooctanesulfonamide (NMeFOSA)		0.386 U	0.385 U	0.393 U	0.386 U	0.375 U	0.396 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		1.27 U	1.27 U	1.29 U	1.27 U	1.24 U	1.30 U
N-Methyl perfluorooctanesulfonamidoethanol (NMeFOSE)		3.20 U	3.19 U	3.25 U	3.20 U	3.11 U	3.29 U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		1.48 U	1.47 U	1.50 U	1.47 U	1.43 U	1.51 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)		0.412 U	0.410 U	0.418 U	0.411 U	0.400 U	0.422 U
Perfluoro-3-methoxypropanoic acid (PFMPA)		1.22 U	1.21 U	1.24 U	1.22 U	1.18 U	1.25 U
Perfluoro-4-methoxybutanoic acid (PFMBA)		1.17 U	1.16 U	1.18 U	1.16 U	1.13 U	1.20 U
Perfluorobutanesulfonic acid (PFBS)	600	0.344 U	0.342 U	0.349 U	0.343 U	0.334 U	0.353 U
Perfluorobutanoic acid (PFBA)		1.16 U	1.15 U	1.18 U	1.16 U	1.13 U	1.19 U

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	BH-735	BH-735	BH-735	BH-735	BH-735
	Field Sample ID	BH-735-312-317	BH-735-322-327	BH-735-332-337	BH-735-342-347	BH-735-348-353
	Sampling Depth	312.00 - 317.00	322.00 - 327.00	332.00 - 337.00	342.00 - 347.00	348.00 - 353.00
	Sampling Date	04/04/2023	04/04/2023	04/04/2023	04/05/2023	04/05/2023
	SDG	23-0408_EDD	23-0408_EDD	23-0408_EDD	23-0408_EDD	23-0408_EDD
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)		2.13 U	2.10 U	2.15 U	2.19 U	2.10 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)		8.73 U	8.59 U	8.78 U	8.97 U	8.58 U
3-Perfluoroheptyl propanoic acid (7:3FTCA)		10.2 U	10.1 U	10.3 U	10.5 U	10.0 U
3-Perfluoropropyl propanoic acid (3:3FTCA)		3.27 U	3.22 U	3.29 U	3.36 U	3.21 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		1.36 U	1.34 U	1.37 U	1.40 U	1.33 U
4:2 Fluorotelomer sulfonic acid (4:2 FTS)		2.58 U	2.54 U	2.60 U	2.66 U	2.54 U
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		2.90 U	2.85 U	2.91 U	2.98 U	2.85 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)		1.79 U	1.76 U	1.80 U	1.84 U	1.76 U
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)		1.37 U	1.35 U	1.38 U	1.41 U	1.34 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	6	1.46 U	1.44 U	1.47 U	1.51 U	1.44 U
N-Ethyl perfluorooctanesulfonamide (NEtFOSA)		0.195 U	0.192 U	0.196 U	0.201 U	0.192 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		1.12 U	1.10 U	1.12 U	1.15 U	1.10 U
N-Ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)		2.84 U	2.79 U	2.85 U	2.92 U	2.79 U
N-Methyl heptadecafluorooctanesulfonamide (NMeFOSA)		0.389 U	0.383 U	0.392 U	0.400 U	0.383 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		1.28 U	1.26 U	1.29 U	1.32 U	1.26 U
N-Methyl perfluorooctanesulfonamidoethanol (NMeFOSE)		3.23 U	3.18 U	3.25 U	3.32 U	3.17 U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		1.49 U	1.46 U	1.50 U	1.53 U	1.46 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)		0.415 U	0.408 U	0.417 U	0.427 U	0.408 U
Perfluoro-3-methoxypropanoic acid (PFMPA)		1.23 U	1.21 U	1.24 U	1.26 U	1.21 U
Perfluoro-4-methoxybutanoic acid (PFMBA)		1.17 U	1.16 U	1.18 U	1.21 U	1.15 U
Perfluorobutanesulfonic acid (PFBS)	600	0.346 U	0.341 U	0.348 U	0.356 U	0.340 U
Perfluorobutanoic acid (PFBA)		1.17 U	1.15 U	1.18 U	1.20 U	1.15 U

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	BH-734	BH-734	BH-734	BH-734	BH-734	BH-734
	Field Sample ID	BH-734-152-157	BH-734-162-167	BH-734-182-187	BH-734-192-197	BH-734-212-217	BH-734-222-227
	Sampling Depth	152.00 - 157.00	162.00 - 167.00	182.00 - 187.00	192.00 - 197.00	212.00 - 217.00	222.00 - 227.00
	Sampling Date	03/03/2023	03/03/2023	03/06/2023	03/07/2023	03/09/2023	03/09/2023
	SDG	23-0283_EDD	23-0283_EDD	23-0283_EDD	23-0283_EDD	23-0305_EDD	23-0305_EDD
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
Perfluorodecanesulfonic acid (PFDS)		0.316 U	0.326 U	0.309 U	0.301 U	0.343 U	0.330 U
Perfluorodecanoic acid (PFDA)		0.436 U	0.449 U	0.426 U	0.414 U	0.472 U	0.454 U
Perfluorododecanesulfonic acid (PFDoS)		0.352 U	0.362 U	0.344 U	0.335 U	0.381 U	0.367 U
Perfluorododecanoic acid (PFDoA)		0.588 U	0.606 U	0.574 U	0.559 U	0.638 U	0.613 U
Perfluoroheptanesulfonic acid (PFHpS)		0.398 U	0.410 U	0.389 U	0.379 U	0.432 U	0.415 U
Perfluoroheptanoic acid (PFHpA)		0.338 U	0.348 U	0.330 U	0.322 U	0.367 U	0.352 U
Perfluorohexanesulfonic acid (PFHxS)	39	0.568 U	0.586 U	0.555 U	0.541 U	0.617 U	0.593 U
Perfluorohexanoic acid (PFHxA)		0.805 U	0.829 U	0.786 U	0.766 U	0.873 U	0.839 U
Perfluorononanesulfonic acid (PFNS)		0.486 U	0.501 U	0.475 U	0.463 U	0.528 U	0.507 U
Perfluorononanoic acid (PFNA)	5.9	0.488 U	0.503 U	0.477 U	0.465 U	0.530 U	0.509 U
Perfluorooctanesulfonamide (PFOSA)		0.367 U	0.378 U	0.359 U	0.349 U	0.398 U	0.383 U
Perfluorooctanesulfonic acid (PFOS)	4	0.484 U	0.499 U	0.473 U	0.461 U	0.525 U	0.505 U
Perfluorooctanoic acid (PFOA)	6	0.566 U	0.584 U	0.553 U	0.539 U	0.614 U	0.591 U
Perfluoropentanesulfonic acid (PFPeS)		0.252 U	0.260 U	0.246 U	0.240 U	0.273 U	0.263 U
Perfluoropentanoic acid (PFPeA)		1.10 U	1.13 U	1.07 U	1.05 U	1.19 U	1.15 U
Perfluorotetradecanoic acid (PFTeDA)		0.838 U	0.863 U	0.819 U	0.797 U	0.909 U	0.874 U
Perfluorotridecanoic acid (PFTrDA)		0.709 U	0.730 U	0.693 U	0.675 U	0.769 U	0.739 U
Perfluoroundecanoic acid (PFUnA)		0.396 U	0.408 U	0.387 U	0.377 U	0.430 U	0.413 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
§Sum of All Compounds Detected		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	BH-734	BH-734	BH-734	BH-734	BH-734	BH-734
	Field Sample ID	BH-734-222-227-D	BH-734-262-267	BH-734-272-277	BH-734-282-287	BH-734-292-297	BH-734-302-307
	Sampling Depth	222.00 - 227.00	262.00 - 267.00	272.00 - 277.00	282.00 - 287.00	292.00 - 297.00	302.00 - 307.00
	Sampling Date	03/09/2023	03/14/2023	03/15/2023	03/16/2023	03/16/2023	03/17/2023
	SDG	23-0305_EDD	23-0325_EDD	23-0325_EDD	23-0325_EDD	23-0325_EDD	23-0325_EDD
	Sample Type	**Field Duplicate**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
Perfluorodecanesulfonic acid (PFDS)		0.327 U	0.318 U	0.342 U	0.331 U	0.318 U	0.345 U
Perfluorodecanoic acid (PFDA)		0.451 U	0.438 U	0.471 U	0.456 U	0.438 U	0.475 U
Perfluorododecanesulfonic acid (PFDoS)		0.364 U	0.354 U	0.381 U	0.368 U	0.354 U	0.384 U
Perfluorododecanoic acid (PFDoA)		0.608 U	0.591 U	0.636 U	0.616 U	0.591 U	0.642 U
Perfluoroheptanesulfonic acid (PFHpS)		0.412 U	0.401 U	0.431 U	0.417 U	0.401 U	0.435 U
Perfluoroheptanoic acid (PFHpA)		0.349 U	0.340 U	0.366 U	0.354 U	0.340 U	0.369 U
Perfluorohexanesulfonic acid (PFHxS)	39	0.588 U	0.572 U	0.615 U	0.595 U	0.572 U	0.620 U
Perfluorohexanoic acid (PFHxA)		0.832 U	0.809 U	0.871 U	0.843 U	0.809 U	0.878 U
Perfluorononanesulfonic acid (PFNS)		0.503 U	0.489 U	0.526 U	0.509 U	0.489 U	0.531 U
Perfluorononanoic acid (PFNA)	5.9	0.505 U	0.491 U	0.529 U	0.511 U	0.491 U	0.533 U
Perfluorooctanesulfonamide (PFOSA)		0.380 U	0.369 U	0.397 U	0.384 U	0.369 U	0.401 U
Perfluorooctanesulfonic acid (PFOS)	4	0.501 U	0.487 U	0.524 U	0.507 U	0.487 U	0.529 U
Perfluorooctanoic acid (PFOA)	6	0.586 U	0.570 U	0.613 U	0.593 U	0.570 U	0.618 U
Perfluoropentanesulfonic acid (PFPeS)		0.261 U	0.253 U	0.273 U	0.264 U	0.253 U	0.275 U
Perfluoropentanoic acid (PFPeA)		1.14 U	1.11 U	1.19 U	1.15 U	1.11 U	1.20 U
Perfluorotetradecanoic acid (PFTeDA)		0.867 U	0.843 U	0.907 UJ	0.877 U	0.843 U	0.915 U
Perfluorotridecanoic acid (PFTrDA)		0.733 U	0.713 U	0.767 UJ	0.742 U	0.713 U	0.774 U
Perfluoroundecanoic acid (PFUnA)		0.410 U	0.399 U	0.429 U	0.415 U	0.399 U	0.433 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
§Sum of All Compounds Detected		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	BH-734	BH-734	BH-734	BH-734	BH-734	BH-735
	Field Sample ID	BH-734-312-317	BH-734-322-327	BH-734-322-327-D	BH-734-332-337	BH-734-345.5-350.5	BH-735-147
	Sampling Depth	312.00 - 317.00	322.00 - 327.00	322.00 - 327.00	332.00 - 327.00	345.50 - 350.50	147.00 - 147.00
	Sampling Date	03/17/2023	03/20/2023	03/20/2023	03/21/2023	03/21/2023	03/24/2023
	SDG	23-0325_EDD	23-0350_EDD	23-0350_EDD	23-0350_EDD	23-0350_EDD	23-0384_EDD
	Sample Type	**Normal**	**Normal**	**Field Duplicate**	**Normal**	**Normal**	**Normal**
PFAS	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
Perfluorodecanesulfonic acid (PFDS)		0.338 U	0.355 U	0.338 U	0.330 U	0.334 U	0.327 U
Perfluorodecanoic acid (PFDA)		0.465 U	0.489 U	0.466 U	0.454 U	0.460 U	0.451 U
Perfluorododecanesulfonic acid (PFDoS)		0.375 U	0.395 U	0.376 U	0.367 U	0.371 U	0.364 U
Perfluorododecanoic acid (PFDoA)		0.627 U	0.660 U	0.628 U	0.613 U	0.621 U	0.608 U
Perfluoroheptanesulfonic acid (PFHpS)		0.425 U	0.447 U	0.426 U	0.415 U	0.421 U	0.412 U
Perfluoroheptanoic acid (PFHpA)		0.360 U	0.379 U	0.361 U	0.352 U	0.357 U	0.349 U
Perfluorohexanesulfonic acid (PFHxS)	39	0.606 U	0.638 U	0.608 U	0.593 U	0.600 U	0.588 U
Perfluorohexanoic acid (PFHxA)		0.858 U	0.904 U	0.860 U	0.839 U	0.849 U	0.832 U
Perfluorononanesulfonic acid (PFNS)		0.519 U	0.546 U	0.520 U	0.507 U	0.513 U	0.503 U
Perfluorononanoic acid (PFNA)	5.9	0.521 U	0.548 U	0.522 U	0.509 U	0.515 U	0.505 U
Perfluorooctanesulfonamide (PFOSA)		0.392 U	0.412 U	0.392 U	0.383 U	0.388 U	0.380 U
Perfluorooctanesulfonic acid (PFOS)	4	0.517 U	0.544 U	0.518 U	0.505 U	0.511 U	0.501 U
Perfluorooctanoic acid (PFOA)	6	0.604 U	0.636 U	0.605 U	0.591 U	0.598 U	0.586 U
Perfluoropentanesulfonic acid (PFPeS)		0.269 U	0.283 U	0.269 U	0.263 U	0.266 U	0.261 U
Perfluoropentanoic acid (PFPeA)		1.17 U	1.23 U	1.18 U	1.15 U	1.16 U	1.14 U
Perfluorotetradecanoic acid (PFTeDA)		0.894 U	0.941 U	0.896 U	0.874 U	0.885 U	0.867 U
Perfluorotridecanoic acid (PFTrDA)		0.756 U	0.796 U	0.758 U	0.739 U	0.748 U	0.733 U
Perfluoroundecanoic acid (PFUnA)		0.423 U	0.445 U	0.424 U	0.413 U	0.419 U	0.410 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
§Sum of All Compounds Detected		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	BH-735	BH-735	BH-735	BH-735	BH-735	BH-735
	Field Sample ID	BH-735-157	BH-735-167	BH-735-177	BH-735-177-D	BH-735-187	BH-735-197
	Sampling Depth	157.00 - 157.00	167.00 - 167.00	177.00 - 177.00	177.00 - 177.00	187.00 - 187.00	197.00 - 197.00
	Sampling Date	03/24/2023	03/28/2023	03/28/2023	03/28/2023	03/28/2023	03/28/2023
	SDG	23-0384_EDD	23-0384_EDD	23-0384_EDD	23-0384_EDD	23-0384_EDD	23-0384_EDD
	Sample Type	**Normal**	**Normal**	**Normal**	**Field Duplicate**	**Normal**	**Normal**
PFAS	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
Perfluorodecanesulfonic acid (PFDS)		0.310 U	0.327 U	0.329 U	0.331 U	0.301 U	0.324 U
Perfluorodecanoic acid (PFDA)		0.426 U	0.451 U	0.452 U	0.456 U	0.414 U	0.446 U
Perfluorododecanesulfonic acid (PFDoS)		0.344 U	0.364 U	0.365 U	0.368 U	0.334 U	0.360 U
Perfluorododecanoic acid (PFDoA)		0.576 U	0.608 U	0.611 U	0.616 U	0.558 U	0.602 U
Perfluoroheptanesulfonic acid (PFHpS)		0.390 U	0.412 U	0.414 U	0.417 U	0.378 U	0.408 U
Perfluoroheptanoic acid (PFHpA)		0.331 U	0.349 U	0.351 U	0.354 U	0.321 U	0.346 U
Perfluorohexanesulfonic acid (PFHxS)	39	0.556 U	0.588 U	0.590 U	0.595 U	0.540 U	0.582 U
Perfluorohexanoic acid (PFHxA)		0.788 U	0.832 U	0.836 U	0.843 U	0.764 U	0.824 U
Perfluorononanesulfonic acid (PFNS)		0.476 U	0.503 U	0.505 U	0.509 U	0.462 U	0.498 U
Perfluorononanoic acid (PFNA)	5.9	0.478 U	0.505 U	0.507 U	0.511 U	0.464 U	0.500 U
Perfluorooctanesulfonamide (PFOSA)		0.359 U	0.380 U	0.381 U	0.384 U	0.349 U	0.376 U
Perfluorooctanesulfonic acid (PFOS)	4	0.474 U	0.501 U	0.503 U	0.507 U	0.460 U	0.496 U
Perfluorooctanoic acid (PFOA)	6	0.554 U	0.586 U	0.588 U	0.593 U	0.538 U	0.580 U
Perfluoropentanesulfonic acid (PFPeS)		0.247 U	0.261 U	0.262 U	0.264 U	0.239 U	0.258 U
Perfluoropentanoic acid (PFPeA)		1.08 U	1.14 U	1.14 U	1.15 U	1.04 U	1.13 U
Perfluorotetradecanoic acid (PFTeDA)		0.820 U	0.867 U	0.870 U	0.877 U	0.796 U	0.858 U
Perfluorotridecanoic acid (PFTrDA)		0.694 U	0.733 U	0.736 U	0.742 U	0.673 U	0.726 U
Perfluoroundecanoic acid (PFUnA)		0.388 U	0.410 U	0.412 U	0.415 U	0.377 U	0.406 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
§Sum of All Compounds Detected		**0.00**	**0.00**	**6.08**	**0.00**	**3.36**	**4.87**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	BH-735	BH-735	BH-735	BH-735	BH-735	BH-735
	Field Sample ID	BH-735-202-207	BH-735-212-217	BH-735-222-227	BH-735-232-237	BH-735-242-247	BH-735-252-257
	Sampling Depth	202.00 - 207.00	212.00 - 217.00	222.00 - 227.00	232.00 - 237.00	242.00 - 247.00	252.00 - 257.00
	Sampling Date	03/29/2023	03/29/2023	03/29/2023	03/30/2023	03/30/2023	03/30/2023
	SDG	23-0384_EDD	23-0384_EDD	23-0384_EDD	23-0396_EDD	23-0396_EDD	23-0396_EDD
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
Perfluorodecanesulfonic acid (PFDS)		0.314 U	0.304 U	0.387 U	0.307 U	0.316 U	0.285 U
Perfluorodecanoic acid (PFDA)		0.432 U	0.418 U	0.532 U	0.423 U	0.435 U	0.392 U
Perfluorododecanesulfonic acid (PFDoS)		0.349 U	0.338 U	0.430 U	0.342 U	0.351 U	0.316 U
Perfluorododecanoic acid (PFDoA)		0.583 U	0.565 U	0.718 U	0.571 U	0.587 U	0.529 U
Perfluoroheptanesulfonic acid (PFHpS)		0.395 U	0.383 U	0.487 U	0.387 U	0.398 U	0.359 U
Perfluoroheptanoic acid (PFHpA)		0.335 U	0.325 U	0.413 U	0.328 U	0.337 U	0.304 U
Perfluorohexanesulfonic acid (PFHxS)	39	0.564 U	0.546 U	0.695 U	0.552 U	0.567 U	0.511 U
Perfluorohexanoic acid (PFHxA)		0.798 U	0.773 U	0.983 U	0.782 U	0.803 U	0.724 U
Perfluorononanesulfonic acid (PFNS)		0.483 U	0.467 U	0.594 U	0.472 U	0.485 U	0.438 U
Perfluorononanoic acid (PFNA)	5.9	0.484 U	0.469 U	0.597 U	0.474 U	0.487 U	0.439 U
Perfluorooctanesulfonamide (PFOSA)		0.364 U	0.353 U	0.449 U	0.357 U	0.366 U	0.330 U
Perfluorooctanesulfonic acid (PFOS)	4	0.481 U	0.465 U	0.592 U	0.471 U	0.483 U	0.436 U
Perfluorooctanoic acid (PFOA)	6	0.562 U	0.544 U	0.692 U	0.550 U	0.565 U	0.510 U
Perfluoropentanesulfonic acid (PFPeS)		0.250 U	0.242 U	0.308 U	0.245 U	0.251 U	0.227 U
Perfluoropentanoic acid (PFPeA)		1.09 U	1.06 U	1.34 U	1.07 U	1.10 U	0.989 U
Perfluorotetradecanoic acid (PFTeDA)		0.831 U	0.805 U	1.02 UJ	0.814 U	0.836 U	0.754 U
Perfluorotridecanoic acid (PFTrDA)		0.703 U	0.681 U	0.866 UJ	0.689 U	0.708 U	0.638 U
Perfluoroundecanoic acid (PFUnA)		0.393 U	0.381 U	0.484 U	0.385 U	0.396 U	0.357 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
§Sum of All Compounds Detected		**2.91**	**2.59**	**7.66**	**0.00**	**3.70**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	BH-735	BH-735	BH-735	BH-735	BH-735	BH-735
	Field Sample ID	BH-735-262-267	BH-735-272-277	BH-735-282-287	BH-735-292-297	BH-735-302-307	BH-735-302-307-D
	Sampling Depth	262.00 - 267.00	272.00 - 277.00	282.00 - 287.00	292.00 - 297.00	302.00 - 307.00	302.00 - 307.00
	Sampling Date	03/30/2023	03/31/2023	04/03/2023	04/03/2023	04/04/2023	04/04/2023
	SDG	23-0396_EDD	23-0396_EDD	23-0396_EDD	23-0396_EDD	23-0408_EDD	23-0408_EDD
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**	**Field Duplicate**
PFAS	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
Perfluorodecanesulfonic acid (PFDS)		0.315 U	0.313 U	0.320 U	0.314 U	0.306 U	0.323 U
Perfluorodecanoic acid (PFDA)		0.433 U	0.431 U	0.440 U	0.432 U	0.421 U	0.444 U
Perfluorododecanesulfonic acid (PFDoS)		0.350 U	0.348 U	0.355 U	0.349 U	0.340 U	0.359 U
Perfluorododecanoic acid (PFDoA)		0.584 U	0.582 U	0.594 U	0.583 U	0.568 U	0.600 U
Perfluoroheptanesulfonic acid (PFHpS)		0.396 U	0.395 U	0.402 U	0.395 U	0.385 U	0.406 U
Perfluoroheptanoic acid (PFHpA)		0.336 U	0.335 U	0.341 U	0.335 U	0.326 U	0.345 U
Perfluorohexanesulfonic acid (PFHxS)	39	0.565 U	0.563 U	0.574 U	0.564 U	0.549 U	0.580 U
Perfluorohexanoic acid (PFHxA)		0.800 U	0.797 U	0.813 U	0.798 U	0.777 U	0.821 U
Perfluorononanesulfonic acid (PFNS)		0.483 U	0.482 U	0.491 U	0.483 U	0.470 U	0.496 U
Perfluorononanoic acid (PFNA)	5.9	0.485 U	0.484 U	0.493 U	0.484 U	0.472 U	0.498 U
Perfluorooctanesulfonamide (PFOSA)		0.365 U	0.364 U	0.371 U	0.364 U	0.355 U	0.375 U
Perfluorooctanesulfonic acid (PFOS)	4	0.482 U	0.480 U	0.489 U	0.481 U	0.468 U	0.494 U
Perfluorooctanoic acid (PFOA)	6	0.563 U	0.561 U	0.572 U	0.562 U	0.547 U	0.578 U
Perfluoropentanesulfonic acid (PFPeS)		0.250 U	0.250 U	0.254 U	0.250 U	0.243 U	0.257 U
Perfluoropentanoic acid (PFPeA)		1.09 U	1.09 U	1.11 U	1.09 U	1.06 U	1.12 U
Perfluorotetradecanoic acid (PFTeDA)		0.833 U	0.830 U	0.846 U	0.831 U	0.809 U	0.855 U
Perfluorotridecanoic acid (PFTrDA)		0.705 U	0.702 U	0.716 U	0.703 U	0.685 U	0.723 U
Perfluoroundecanoic acid (PFUnA)		0.394 U	0.393 U	0.400 U	0.393 U	0.383 U	0.404 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
§Sum of All Compounds Detected		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	BH-735	BH-735	BH-735	BH-735	BH-735
	Field Sample ID	BH-735-312-317	BH-735-322-327	BH-735-332-337	BH-735-342-347	BH-735-348-353
	Sampling Depth	312.00 - 317.00	322.00 - 327.00	332.00 - 337.00	342.00 - 347.00	348.00 - 353.00
	Sampling Date	04/04/2023	04/04/2023	04/04/2023	04/05/2023	04/05/2023
	SDG	23-0408_EDD	23-0408_EDD	23-0408_EDD	23-0408_EDD	23-0408_EDD
	Sample Type	**Normal**	**Normal**	**Normal**	**Normal**	**Normal**
PFAS	**Screening Limit**	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)
Perfluorodecanesulfonic acid (PFDS)		0.317 U	0.312 U	0.319 U	0.326 U	0.312 U
Perfluorodecanoic acid (PFDA)		0.436 U	0.430 U	0.439 U	0.449 U	0.429 U
Perfluorododecanesulfonic acid (PFDoS)		0.352 U	0.347 U	0.354 U	0.362 U	0.346 U
Perfluorododecanoic acid (PFDoA)		0.589 U	0.580 U	0.593 U	0.606 U	0.579 U
Perfluoroheptanesulfonic acid (PFHpS)		0.399 U	0.393 U	0.402 U	0.410 U	0.392 U
Perfluoroheptanoic acid (PFHpA)		0.339 U	0.333 U	0.341 U	0.348 U	0.333 U
Perfluorohexanesulfonic acid (PFHxS)	39	0.569 U	0.561 U	0.573 U	0.586 U	0.560 U
Perfluorohexanoic acid (PFHxA)		0.806 U	0.794 U	0.811 U	0.829 U	0.792 U
Perfluorononanesulfonic acid (PFNS)		0.487 U	0.480 U	0.490 U	0.501 U	0.479 U
Perfluorononanoic acid (PFNA)	5.9	0.489 U	0.482 U	0.492 U	0.503 U	0.481 U
Perfluorooctanesulfonamide (PFOSA)		0.368 U	0.362 U	0.370 U	0.378 U	0.362 U
Perfluorooctanesulfonic acid (PFOS)	4	0.485 U	0.478 U	0.488 U	0.499 U	0.477 U
Perfluorooctanoic acid (PFOA)	6	0.568 U	0.559 U	0.571 U	0.584 U	0.558 U
Perfluoropentanesulfonic acid (PFPeS)		0.252 U	0.249 U	0.254 U	0.260 U	0.248 U
Perfluoropentanoic acid (PFPeA)		1.10 U	1.08 U	1.11 U	1.13 U	1.08 U
Perfluorotetradecanoic acid (PFTeDA)		0.840 U	0.827 U	0.844 U	0.863 U	0.825 U
Perfluorotridecanoic acid (PFTrDA)		0.710 U	0.699 U	0.715 U	0.730 U	0.698 U
Perfluoroundecanoic acid (PFUnA)		0.397 U	0.391 U	0.400 U	0.408 U	0.390 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
§Sum of All Compounds Detected		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

KGS 2023 J3 Range PFAS Quarterly - J3 Range

	Location	J3-EFF	J3-INF
	Field Sample ID	J3-EFF_1Q23	J3-INF_1Q23
	Sampling Depth	0.00 - 0.00	0.00 - 0.00
	Sampling Date	02/01/2023	02/01/2023
	SDG	320-96521-1	320-96521-1
	Sample Type	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)
6:2 Fluorotelomer sulfonate (6:2 FTS)		0.930 U	0.940 U
8:2 Fluorotelomer sulfonate (8:2 FTS)		1.40 U	1.40 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		0.930 U	0.940 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		0.930 U	0.940 U
Perfluorobutanesulfonic acid (PFBS)	600	0.930 U	0.940 U
Perfluorobutanoic acid (PFBA)		0.470 U	**0.350 J**
Perfluorodecanesulfonic acid (PFDS)		1.40 U	1.40 U
Perfluorodecanoic acid (PFDA)		0.930 U	0.940 U
Perfluorododecanoic acid (PFDoA)		0.930 U	0.940 U
Perfluoroheptanesulfonic acid (PFHpS)		1.40 U	1.40 U
Perfluoroheptanoic acid (PFHpA)		0.930 U	0.940 U
Perfluorohexane sulfonate (PFHxS)	39	0.930 U	**1.70 J**
Perfluorohexanoic acid (PFHxA)		1.40 U	1.40 U
Perfluorononanoic acid (PFNA)	5.9	1.40 U	1.40 U
Perfluorooctanesulfonamide (PFOSA)		1.40 U	1.40 U
Perfluorooctanesulfonic acid (PFOS)	4	1.40 U	1.40 U
Perfluorooctanoic acid (PFOA)	6	1.40 U	1.40 U
Perfluoropentanoic acid (PFPeA)		**0.240 J**	**0.280 J**
Perfluorotetradecanoic acid (PFTeDA)		1.40 U	1.40 U
Perfluorotridecanoic acid (PFTrDA)		1.40 U	1.40 U
Perfluoroundecanoic acid (PFUnA)		1.40 U	1.40 U
†PFOS + PFOA (EPA)		**0.00**	**0.00**
‡PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA (MassDEP)		**0.00**	**0.00**

PFAS Summary Report – Groundwater
Joint Base Cape Cod, IAGWSP

	Location	J3-EFF	J3-INF
	Field Sample ID	J3-EFF_1Q23	J3-INF_1Q23
	Sampling Depth	0.00 - 0.00	0.00 - 0.00
	Sampling Date	02/01/2023	02/01/2023
	SDG	320-96521-1	320-96521-1
	Sample Type	**Normal**	**Normal**
PFAS 21 Cmps	**Screening Limit**	Results (ng/L)	Results (ng/L)
§Sum of All Compounds Detected		**0.240**	**2.33**

Notes:

ng/L = nanograms per liter; ug/kg = micrograms per kilogram; U = not detected; J = estimated; UJ = estimated non detect
Non detects are calculated as zero in the summations.

Bolded results indicate detections of PFAS

Bolded and highlighted results indicate detection of PFAS above the EPA Lifetime Health Advisory: PFOS + PFOA > 70 ng/L.

Bolded and highlighted results indicate detection of PFAS6 above the MassDEP MCL: PFOS + PFOA + PFDA + PFHpA + PFHxS + PFNA > 20 ng/L

Bolded and highlighted results indicate detection of PFAS above the 2022 May EPA Tapwater (THQ 0.1)

† Lifetime Health Advisory, US Environmental Protection Agency, May 2016
The PFOS and PFOA summation includes all detections at and above the DL.

‡ PFAS Maximum Contaminant Level (MCL) Final Amendments ("MCL", 310 CMR 22.00 PFAS MCL Amendments), Massachusetts Department of Environmental Protection, October 2, 2020
The MassDEP PFAS summation includes all quantifiable results reported at and above the LOQ.
PFHxS represents the reported presence of Perfluorohexanesulfonic acid or Perfluorohexane sulfonate as reported for the project.

§ Sum of All Compounds Detected includes all detections at and above the DL.