284 Sheffield Street, Mountainside, NJ 7092, Phone: 908 789 8900, Fax: 908 789 8922

CASE NARRATIVE

ICE Service Group, Inc.
Project Name: NWIRP Northrup Grumman Site – Bethpage, NY
Project # N/A
Order ID # Q3400
Test Name: VOC-TCLVOA-10,SVOC-TCL BNA -20,PCB,Mercury,Metals Group4,pH,TSS

A. Number of Samples and Date of Receipt:
1 Water sample was received on 10/20/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10,SVOC-TCL BNA -20,PCB,Mercury,Metals Group4,pH,TSS. This data package contains results for VOC-TCLVOA-10(8260-Low),SVOC-TCL BNA -20(8270E),PCB(8082A),Mercury(7470A),Metals Group4(6010D),pH(9040C),TSS(SM2540 D).

C. Analytical Techniques:
VOC-TCLVOA-10 : The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of VOC-TCLVOA-10 was based on method 8260-Low.

SVOC-TCL BNA -20 : The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df. The samples were analyzed on instrument BNA_G using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3510.

PCB : The analyses were performed on instrument GCECD_Q.The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analyses were performed on instrument GCECD_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A and extraction was done based on method 3510.

Mercury,Metals Group4 : The analysis of Metals Group4 was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of Mercury was based on method 7470A.

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Wetchem : The analysis of pH,TSS was based on method 9040C,SM2540 D.

D. QA/ QC Samples:
The Holding Times were met for all analysis except following Wetchem : FRAC-TANK-0760450 of pH as sample was receive out of holding time.

The Surrogate recoveries were met for all analysis except following
VOC-TCLVOA-10 : FRAC-TANK-0760450 [4-Bromofluorobenzene - 116%],VIAL A and B combined to run this sample as both having much sediment ; Lab has only two vials, now no more vial for reanalysis therefore surrogate failure data reported as final.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds except following
Mercury,Metals Group4 : The Matrix Spike (WATER-TREATMENT DISCHARGEMS) analysis met criteria for all compounds except for Cadmium, Lead due to Chemical Interference during Digestion process.

The MSD recoveries met the requirements for all compounds except following
Mercury,Metals Group4 : The Matrix Spike Duplicate (WATER-TREATMENT DISCHARGEMSD) analysis met criteria for all compounds except for Lead due to Chemical Interference during Digestion process.

The RPD were met for all analysis except following
SVOC-TCL BNA -20 : The RPD for {PB170222BSD} with File ID: BG064586.D met criteria except for N-Nitroso-di-n-propylamine[21%], due to difference in results of BS and BSD.

The Blank Spike met requirements for all compounds except following
SVOC-TCL BNA -20 : The Blank Spike for {PB170222BS} with File ID: BG064585.D met requirements for all compounds except for 1,4-Dioxane[62%], marginally low therefore no corrective action was taken.

The Blank Spike Duplicate met requirements for all compounds except following
SVOC-TCL BNA -20 : The Blank Spike Duplicate for {PB170222BSD} with File ID: BG064586.D met requirements for all compounds except for 1,4-Dioxane[69%], marginally low therefore no corrective action was taken.

The Blank analysis did not indicate the presence of lab contamination.

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The Initial Calibration met the requirements except following SVOC-TCL BNA -20 : The %RSD is greater than 20% in the Method 8270-BG102421.M for 2-Nitrophenol, 2-Nitroaniline, 2,6-Dinitrotoluene, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenolthese Compounds are passing on Linear regression.

The Continuous Calibration met the requirements except following VOC-TCLVOA-10 : The Continuous Calibration File ID VX048252.D met the requirements except for 4-Methyl-2-Pentanone. Failing marginally low therefore no corrective action was taken.

SVOC-TCL BNA -20 : The Continuous Calibration File ID BG064583.D met the requirements except for 2-Chlorophenol,Benzaldehyde,bis(2-Chloroethyl)ether,Phenol,2-Fluorophenol and Phenol-d6 , The associate samples have no positive hit for these compounds therefore no corrective action was taken.

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The Tuning criteria met requirements.

The Duplicate analysis met criteria for all samples.

The Serial Dilution met the acceptable requirements.

E. Additional Comments:

SEMI-VOA : The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

Mercury,Metals Group4 : The Post Digest Spike (WATER-TREATMENT DISCHARGEA) analysis met criteria for all compounds except for Lead due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.

VOC-TCLVOA-10 : Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

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Signature_____