



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



C. HEIDI GREYER
DIRECTOR

October 4, 2018

VIA E-MAIL

SYLVAN TOWNSHIP
18027 OLD US 12
CHELSEA, MICHIGAN 48118

WSSN: 06531

Dear Water Supply Owner/Operator:

SUBJECT: SYLVAN TOWNSHIP
Per- and Polyfluoroalkyl Substances (PFAS)

As you may be aware, the Michigan PFAS Action Response Team (MPART) has undertaken a proactive effort to investigate sources and locations of PFAS contamination in Michigan, to protect our drinking water, and to inform the public about PFAS. This involves the work of ten state departments, in coordination with local and federal officials.

One vital piece of this effort is the ongoing collaboration between the Michigan Department of Environmental Quality (MDEQ) and our water supply partners. It is through your generous participation that we are able to set and achieve our goal: to proactively test all community water supplies and schools that are classified as non-transient non-community water supplies for PFAS contamination. Once complete, this study will be an invaluable tool in determining the extent of PFAS in Michigan's drinking water, and empowering the MPART in the pursuit of their mission. We thank you for your continuing partnership, collaboration, and dedication to the residents of our great state.

This letter is intended to provide the results of PFAS analyses in samples collected from the SYLVAN TOWNSHIP, WSSN # 06531 (water supply) on the date(s) indicated below.

The table below summarizes the sampling results. A copy of the laboratory report is enclosed for your review. The analyses of these samples reported less than 10 parts per trillion (ppt) for perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA). Your water supply may have returned results greater than non-detect (ND) for the total amount of PFAS analytes tested for. An ND result means the analyte was not detected. Neither the MDEQ nor the United States Environmental Protection Agency (USEPA) have any guidance values for these other analytes at this time. If additional guidance and/or comparison values are developed for these or other PFAS chemicals in the future, we may reevaluate this water supply.

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Date Collected	Sampling Location	PFOS + PFOA (ppt)	LHA (ppt) PFOS + PFOA	Total Tested PFAS (ppt)
8/8/2018	TP001	ND	70	ND

ND – The parameter was not detected based on the laboratory’s analytical report. See Official lab results for test method used.

Currently, there is no regulatory drinking water standard for any of the PFAS chemicals. However, in May 2016 the USEPA established a non-regulatory Lifetime Health Advisory (LHA) for two of these chemicals, PFOS and PFOA. The LHA for PFOS and PFOA is 70 ppt combined, or individually if only one of them is present. The USEPA recommends that this LHA applies to both short-term (i.e., weeks to months) scenarios during pregnancy and lactation, as well as to lifetime-exposure scenarios. The LHA is the level, or amount, below which no harm is expected from these chemicals. The Michigan Department of Health and Human Services (MDHHS), as well as the MDEQ, have used this LHA of 70 ppt to inform decisions on actions that should be taken or are recommended to reduce exposure and prevent increased risk to public health from these PFAS contaminants. The USEPA has not set health advisory levels for the other PFAS compounds because not enough is known about them.

Additional information on the health effects of PFAS can be found on the Agency for Toxic Substances and Disease Registry (ATSDR) website listed at the end of this correspondence.

The concentrations of PFOS and PFOA in these samples are well below the USEPA LHA of 70 ppt and are not expected to result in adverse health effects as long as the concentrations are shown to remain below the LHA over time.

Because of the detection of low levels found in the water supply, we have the following recommendations for your consideration. These recommendations are essentially the same actions we have advised public water systems to follow for the past 30-plus years when a new contaminant has been confirmed as present in their drinking water.

1. Inform the public of these sample results through posting on your website or other means. The MDEQ, in collaboration with the MDHHS, has developed a toolkit containing communication templates to help notify the consumers of your water supply on the presence of PFAS in the drinking water and the response measures that are being initiated. This is a resource available to you if you choose and can be modified to fit your needs. The toolkit is available at www.michigan.gov/pfasresponse and click on “visit news and education.”
2. Please continue with your regularly scheduled monitoring. The MDEQ recommends you also continue monitoring for PFAS on an annual basis to demonstrate the concentrations are consistently and reliably below any existing LHA.

These recommendations are based on the best available and most current information and may change depending on additional information related to site conditions; the availability of new data; or other new information as it becomes available. We may recommend further action at that time.

SYLVAN TOWNSHIP

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As part of the MDEQ's proactive statewide sampling initiative, the results of this sampling will be posted online on the MPART website within 48 hours of this notification. The results can be found online by going to the MPART website address listed below, and by clicking on "Michigan PFAS Sites," and scrolling down and selecting "Public Water Supply Information." We recommend you inform your consumers as soon as possible. If you need assistance, please contact me.

For information on PFOS, PFOA, and other PFAS, including possible health outcomes, you may visit these websites:

- **State of Michigan PFAS Action Response Team (MPART)** website serving as the main resource for public information on PFAS contamination in Michigan:
www.michigan.gov/pfasresponse
- **United States Environmental Protection Agency (USEPA)** website including basic information, USEPA actions, and links to informational resources:
www.epa.gov/pfas
- **Agency for Toxic Substances and Disease Registry (ATSDR)** website including health information, exposure, and links to additional resources:
www.atsdr.cdc.gov/pfas

Thank you once again for your continued collaboration with this investigation. The ongoing partnership between the MDEQ and Michigan's public water supplies plays an integral role in the state's continued efforts to ascertain and address the incidence of PFAS in drinking water for Michiganders.

If you have any questions concerning this sampling, please contact me at the telephone number below; by email at DEQ-PFAS-DrinkingWater@michigan.gov; or by mail at DEQ-DWMAD, P.O. Box 30817, Lansing, Michigan 48909-8311.

Sincerely,

Lois Elliott Graham

Lois Elliott Graham, R.S., M.S.A.

Drinking Water and Municipal Assistance Division

810-730-8674

Enclosure

cc: Ms. Kristen Schweighoefer, Washtenaw County Health Department
Mr. Steven Crider, Supervisor, Drinking Water Unit, MDHHS
Mr. Pat Brennan, MDEQ



September 15, 2018

Vista Work Order No. 1802399

Ms. Maya Murshak
Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Dear Ms. Murshak,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on August 10, 2018 under your Project Name 'MDEQ State Municipal Sampling'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

A handwritten signature in black ink that reads "Martha Maier".

Martha Maier
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Analytical Laboratory 1104 Windfield Way El Dorado Hills, CA 95762 ph: 916-673-1520 fx: 916-673-0106 www.vista-analytical.com

Vista Work Order No. 1802399

Case Narrative

Sample Condition on Receipt:

One drinking water sample was received in good condition and within the method temperature requirements. The sample was received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

Analytical Notes:

EPA Method 537, Rev. 1.1

The sample was extracted and analyzed for a selected list of 14 PFAS using EPA Method 537, Rev. 1.1. The results have been reported following the conventions specified by the Michigan Department of Environmental Quality.

Holding Times

The sample was extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

Two Laboratory Fortified Blanks (LFB/LFBD) and a Laboratory Reagent Blank (LRB) were extracted and analyzed with the preparation batch. No analytes were detected in the Laboratory Reagent Blank. The LFB/LFBD recoveries were within the method acceptance criteria.

The surrogate recoveries for all QC and field samples were within the acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1802399-01	GWEF1808081130KER	08-Aug-18 11:30	10-Aug-18 10:01	HDPE Bottle, 250 mL HDPE Bottle, 250 mL

ANALYTICAL RESULTS

Sample ID: LRB
EPA Method 537

Client Data		Laboratory Data	
Name: Merit Laboratories, Inc.	Matrix: Aqueous	Lab Sample: B8H0094-BLK1	Column: BEH C18
Project: MDEQ State Municipal Sampling			

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	2		B8H0094	17-Aug-18	0.25 L	31-Aug-18 04:15	1
PFHxA	307-24-4	ND	2		B8H0094	17-Aug-18	0.25 L	31-Aug-18 04:15	1
PFHpA	375-85-9	ND	2		B8H0094	17-Aug-18	0.25 L	31-Aug-18 04:15	1
PFHxS	355-46-4	ND	2		B8H0094	17-Aug-18	0.25 L	31-Aug-18 04:15	1
PFOA	335-67-1	ND	2		B8H0094	17-Aug-18	0.25 L	31-Aug-18 04:15	1
PFNA	375-95-1	ND	2		B8H0094	17-Aug-18	0.25 L	31-Aug-18 04:15	1
PFOS	1763-23-1	ND	2		B8H0094	17-Aug-18	0.25 L	31-Aug-18 04:15	1
PFDA	335-76-2	ND	2		B8H0094	17-Aug-18	0.25 L	31-Aug-18 04:15	1
MeFOSAA	2355-31-9	ND	4		B8H0094	17-Aug-18	0.25 L	31-Aug-18 04:15	1
EtFOSAA	2991-50-6	ND	4		B8H0094	17-Aug-18	0.25 L	31-Aug-18 04:15	1
PFUnA	2058-94-8	ND	4		B8H0094	17-Aug-18	0.25 L	31-Aug-18 04:15	1
PFDoA	307-55-1	ND	4		B8H0094	17-Aug-18	0.25 L	31-Aug-18 04:15	1
PFTtDA	72629-94-8	ND	4		B8H0094	17-Aug-18	0.25 L	31-Aug-18 04:15	1
PFTeDA	376-06-7	ND	4		B8H0094	17-Aug-18	0.25 L	31-Aug-18 04:15	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
I3C2-PFHxA	SURR	88	70 - 130		B8H0094	17-Aug-18	0.25 L	31-Aug-18 04:15	1
I3C2-PFDA	SURR	91	70 - 130		B8H0094	17-Aug-18	0.25 L	31-Aug-18 04:15	1
d5-EtFOSAA	SURR	100	70 - 130		B8H0094	17-Aug-18	0.25 L	31-Aug-18 04:15	1

Results reported to RL.
 Reporting convention specified by MIDEQ.
 When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: LFB

EPA Method 537

Name: Merit Laboratories, Inc. Lab Sample: B8H0094-BS1/B8H0094-BSDI Date Extracted: 17-Aug-18
 Project: MDEQ State Municipal Sampling QC Batch: B8H0094 Column: BEH C18
 Matrix: Aqueous Samp Size: 0.25/0.25 L

Analyte	CAS Number	LFB (ng/L)		LFB % Rec		LFB (ng/L)		LFB % Rec		LFB (ng/L)		LFB % Rec		LFB Analyzed		LFB Dil	
		Spike Amt	Quals	Spike Amt	Quals	Spike Amt	Quals	Spike Amt	Quals	Spike Amt	Quals	Spike Amt	Quals	Spike Amt	Quals	Spike Amt	Quals
PFBS	375-73-5	73	103	71	103	66	103	71	94	10	66	94	71	94	31-Aug-18 03:49	1	31-Aug-18 04:02
PFHxA	307-24-4	87	109	80	109	85	109	80	106	2	85	106	80	106	31-Aug-18 03:49	1	31-Aug-18 04:02
PFHpA	375-85-9	88	110	80	110	86	110	80	107	3	86	107	80	107	31-Aug-18 03:49	1	31-Aug-18 04:02
PFHxS	355-46-4	62	85	73	85	62	85	73	85	0	62	85	73	85	31-Aug-18 03:49	1	31-Aug-18 04:02
PFOA	335-67-1	82	103	80	103	74	103	80	93	10	74	93	80	93	31-Aug-18 03:49	1	31-Aug-18 04:02
PFNA	375-95-1	70	87	80	87	70	87	80	87	0	70	87	80	87	31-Aug-18 03:49	1	31-Aug-18 04:02
PFOS	1763-23-1	73	99	74	99	73	99	74	98	1	73	98	74	98	31-Aug-18 03:49	1	31-Aug-18 04:02
PFDA	335-76-2	81	101	80	101	72	101	80	90	11	72	90	80	90	31-Aug-18 03:49	1	31-Aug-18 04:02
MeFOSAA	2355-31-9	81	101	80	101	88	101	80	110	9	88	110	80	110	31-Aug-18 03:49	1	31-Aug-18 04:02
EtFOSAA	2991-50-6	79	99	80	99	67	99	80	84	17	67	84	80	84	31-Aug-18 03:49	1	31-Aug-18 04:02
PFUnA	2058-94-8	74	93	80	93	76	93	80	95	2	76	95	80	95	31-Aug-18 03:49	1	31-Aug-18 04:02
PFDoA	307-55-1	83	104	80	104	78	104	80	97	7	78	97	80	97	31-Aug-18 03:49	1	31-Aug-18 04:02
PFTeDA	72629-94-8	68	85	80	85	71	85	80	89	4	71	89	80	89	31-Aug-18 03:49	1	31-Aug-18 04:02
PFTeDA	376-06-7	67	84	80	84	65	84	80	81	4	65	81	80	81	31-Aug-18 03:49	1	31-Aug-18 04:02

Labeled Standards	Type	LFB		LFB % Rec		LFB		LFB % Rec		LFB Analyzed		LFB Dil	
		Spike Amt	Quals	Spike Amt	Quals	Spike Amt	Quals	Spike Amt	Quals	Spike Amt	Quals	Spike Amt	Quals
13C2-PFHxA	SURR	101	101	95	101	95	101	95	101	31-Aug-18 03:49	1	31-Aug-18 04:02	1
13C2-PFDA	SURR	91	91	91	91	91	91	91	91	31-Aug-18 03:49	1	31-Aug-18 04:02	1
d5-EtFOSAA	SURR	97	97	92	97	92	97	92	97	31-Aug-18 03:49	1	31-Aug-18 04:02	1

Data Reported per Michigan DEQ instructions.

Sample ID: GWEF1808081130KER

EPA Method 537

Client Data		Laboratory Data	
Name:	Merit Laboratories, Inc.	Lab Sample:	1802399-01
Project:	MDEQ State Municipal Sampling	Date Received:	10-Aug-18 10:01
Location:	SYLVANTWP06531TP001	Matrix:	Drinking Water
		Date Collected:	08-Aug-18 11:30
		Column:	BEH C18

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	2		B8H0094	17-Aug-18	0.26 L	04-Sep-18 13:50	1
PFHxA	307-24-4	ND	2		B8H0094	17-Aug-18	0.26 L	04-Sep-18 13:50	1
PFHpA	375-85-9	ND	2		B8H0094	17-Aug-18	0.26 L	04-Sep-18 13:50	1
PFHxS	355-46-4	ND	2		B8H0094	17-Aug-18	0.26 L	04-Sep-18 13:50	1
PFOA	335-67-1	ND	2		B8H0094	17-Aug-18	0.26 L	04-Sep-18 13:50	1
PFNA	375-95-1	ND	2		B8H0094	17-Aug-18	0.26 L	04-Sep-18 13:50	1
PFOS	1763-23-1	ND	2		B8H0094	17-Aug-18	0.26 L	04-Sep-18 13:50	1
PFDA	335-76-2	ND	2		B8H0094	17-Aug-18	0.26 L	04-Sep-18 13:50	1
MeFOSAA	2355-31-9	ND	4		B8H0094	17-Aug-18	0.26 L	04-Sep-18 13:50	1
EfFOSAA	2991-50-6	ND	4		B8H0094	17-Aug-18	0.26 L	04-Sep-18 13:50	1
PFUnA	2058-94-8	ND	4		B8H0094	17-Aug-18	0.26 L	04-Sep-18 13:50	1
PFDoA	307-55-1	ND	4		B8H0094	17-Aug-18	0.26 L	04-Sep-18 13:50	1
PFTtDA	72629-94-8	ND	4		B8H0094	17-Aug-18	0.26 L	04-Sep-18 13:50	1
PFTeDA	376-06-7	ND	4		B8H0094	17-Aug-18	0.26 L	04-Sep-18 13:50	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	101	70 - 130		B8H0094	17-Aug-18	0.26 L	04-Sep-18 13:50	1
13C2-PFDA	SURR	111	70 - 130		B8H0094	17-Aug-18	0.26 L	04-Sep-18 13:50	1
d5-EFOSAA	SURR	102	70 - 130		B8H0094	17-Aug-18	0.26 L	04-Sep-18 13:50	1

RL - Reporting limit

Results reported to RL.

Reporting convention specified by MIDEQ.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EfFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
D	Dilution
DL	Detection limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limits of Detection
LOQ	Limits of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
NA	Not applicable
ND	Not Detected
Q	Ion ratio outside of 70-130% of Standard Ratio. (DOD PFAS projects only)
TEQ	Toxic Equivalency
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	18-008-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-18
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2018017
Minnesota Department of Health	1322288
New Hampshire Environmental Accreditation Program	207717
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-009
Pennsylvania Department of Environmental Protection	014
Texas Commission on Environmental Quality	T104704189-18-8
Virginia Department of General Services	9077
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	Method
Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans	EPA 23

MATRIX: Biological Tissue	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	Method
2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) GC/HRMS	EPA 1613
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537

MATRIX: Non-Potable Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	Method
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A



CHAIN OF CUSTODY

For Laboratory Use Only
 Work Order #: 1802399 Temp: 1.8 °C
 Storage ID: WR-2 Storage Secured: Yes No

Project ID: MDEQ STATE MUNICIPAL SAMPLING PO#: 60570389 Sampler: KELLY RICHART
 Invoices to: Name MIKE JURY Company MDEQ Address 401 KETCHUM ST, SUITE B BAY CITY MI 48708
 TAT Standard: 21 days Rush (surcharge may apply) Fax# 989-891-9237
 (check one): 14 days 7 days Specify:

Relinquished by (printed name and signature) [Signature] Date 8-9-18 Time 1500 Received by (printed name and signature) B. Benedict Date 08/09/18 Time 1044
 Relinquished by (printed name and signature) [Signature] Date 8-9-18 Time 1500 Received by (printed name and signature) B. Benedict Date 08/09/18 Time 1044

SHIP TO: Vista Analytical Laboratory
 1104 Windfield Way
 El Dorado Hills, CA 95762
 Ph: (916)873-1520; Fax: (916)673-0106

ATTN: Jennifer Miller
 Method of Shipment: _____
 Tracking No.: _____

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	List of 21 Winklers	List of 24 Winklers	List of 28 Winklers	Other Please List	FRAS Dilution	Add Analysis(as) Requested	Container(s)	Comments
GWEF1808061130KER	8/8/18	1130	SYLVANTWP06531TP001	2	P DW									

Special Instructions/Comments: _____
 Send Results and Acknowledgements to the list provided by e-mail to Vista.
 Name: MIKE JURY
 Company: MDEQ
 Address: 401 KETCHUM ST, SUITE B
 City: BAY CITY State: MI Zip: 48708
 Phone: 989-894-6255 Fax: 989-891-9237
 Email: dorin.bogdan@aeecom.com
 Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other.
 Bottle Preservation Type: T = Thiosulfate, TZ = Trimie.

Sample Log-in Checklist

 Vista Work Order #: 1802399 TAT STU

Samples Arrival:	Date/Time <u>08/10/18 1001</u>	Initials: <u>MBB</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>NA</u>
Logged In:	Date/Time <u>08/11/18 1153</u>	Initials: <u>MBB</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>A3/F4</u>
Delivered By:	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac
	<input type="radio"/> GSO	<input type="radio"/> DHL	<input type="radio"/> Hand Delivered
	<input type="radio"/> Other		
Preservation:	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
	<input type="radio"/> None		
Temp °C: <u>1.9</u> (uncorrected)	Time: <u>1024</u>		Thermometer ID: IR-4
Temp °C: <u>1.8</u> (corrected)	Probe used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

	YES	NO	NA
Adequate Sample Volume Received?	<input checked="" type="checkbox"/> MBB		
Holding Time Acceptable?	<input checked="" type="checkbox"/> MBB		
Shipping Container(s) Intact?	<input checked="" type="checkbox"/> MBB		
Shipping Custody Seals Intact?			<input checked="" type="checkbox"/> MBB
Shipping Documentation Present?	<input checked="" type="checkbox"/> MBB		
Airbill	Trk # <u>7729 3609 9054</u>		
Sample Container Intact?	<input checked="" type="checkbox"/> MBB		
Sample Custody Seals Intact?			<input checked="" type="checkbox"/> MBB
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/> MBB		
COC Anomaly/Sample Acceptance Form completed?			<input checked="" type="checkbox"/> MBB
If Chlorinated or Drinking Water Samples, Acceptable Preservation?	<input checked="" type="checkbox"/> MBB		
Preservation Documented:	<input type="checkbox"/> Na ₂ S ₂ O ₃	<input checked="" type="checkbox"/> Trizma	<input type="checkbox"/> None
	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose	

Comments: