



Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

March 31, 2024

Cassandra Bell
Environmental Works, Inc.
1455 E. Chestnut Expressway
Springfield, MO 65802

RE: Missouri State University: CDC GTLO

Dear Cassandra Bell:

Please find enclosed the analytical results for the **49** sample(s) the laboratory received on **3/14/24 4:20 pm** and logged in under work order **HC02621**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise . We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

A handwritten signature in black ink, appearing to read "Chenise Lambert-Sykes".

Chenise Lambert-Sykes
Project Manager
(314)432-0550
Chenise.Lambert-Sykes@pacelabs.com



SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order HC02621

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
NO	Current PDC COC submitted
NO	Case narrative provided



ANALYTICAL RESULTS

Sample: HC02621-29
Name: 01-CDC-WF-ENT-L
Matrix: Drinking Water - Regular Sample

Sampled: 03/13/24 06:01
Received: 03/14/24 16:20

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 03/22/24 08:27, 1, 1.00, 03/22/24 15:46, BRS, EPA 200.8 REV 5.4

Sample: HC02621-30
Name: 02-CDC-WF-ENT-R
Matrix: Drinking Water - Regular Sample

Sampled: 03/13/24 06:01
Received: 03/14/24 16:20

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 03/22/24 08:27, 1, 1.00, 03/22/24 15:47, BRS, EPA 200.8 REV 5.4

Sample: HC02621-31
Name: 03-CDC-F-180-UP
Matrix: Drinking Water - Regular Sample

Sampled: 03/13/24 06:03
Received: 03/14/24 16:20

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 03/22/24 08:27, 1, 1.00, 03/22/24 15:48, BRS, EPA 200.8 REV 5.4

Sample: HC02621-32
Name: 04-CDC-F-180-LOW
Matrix: Drinking Water - Regular Sample

Sampled: 03/13/24 06:04
Received: 03/14/24 16:20

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 03/22/24 08:27, 1, 1.00, 03/22/24 15:50, BRS, EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: HC02621-33
Name: 05-CDC-F-183-UP
Matrix: Drinking Water - Regular Sample

Sampled: 03/13/24 06:06
Received: 03/14/24 16:20

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 03/22/24 08:27, 1, 1.00, 03/22/24 15:51, BRS, EPA 200.8 REV 5.4

Sample: HC02621-34
Name: 06-CDC-F-183-LOW
Matrix: Drinking Water - Regular Sample

Sampled: 03/13/24 06:07
Received: 03/14/24 16:20

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 1.20, ug/L, 03/22/24 08:27, 1, 1.00, 03/22/24 15:53, BRS, EPA 200.8 REV 5.4

Sample: HC02621-35
Name: 07-CDC-F-183-W
Matrix: Drinking Water - Regular Sample

Sampled: 03/13/24 06:08
Received: 03/14/24 16:20

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 03/22/24 08:27, 1, 1.00, 03/22/24 15:57, BRS, EPA 200.8 REV 5.4

Sample: HC02621-36
Name: 08-CDC-F-185-E
Matrix: Drinking Water - Regular Sample

Sampled: 03/13/24 06:09
Received: 03/14/24 16:20

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 03/22/24 08:27, 1, 1.00, 03/22/24 15:58, BRS, EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: HC02621-37
Name: 09-CDC-F-185-W
Matrix: Drinking Water - Regular Sample

Sampled: 03/13/24 06:11
Received: 03/14/24 16:20

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 1.25, ug/L, 03/22/24 08:27, 1, 1.00, 03/22/24 16:02, BRS, EPA 200.8 REV 5.4

Sample: HC02621-38
Name: 10-CDC-F-185-N
Matrix: Drinking Water - Regular Sample

Sampled: 03/13/24 06:12
Received: 03/14/24 16:20

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 03/22/24 08:27, 1, 1.00, 03/22/24 16:04, BRS, EPA 200.8 REV 5.4

Sample: HC02621-39
Name: 11-CDC-F-K-HW
Matrix: Drinking Water - Regular Sample

Sampled: 03/13/24 06:14
Received: 03/14/24 16:20

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 03/22/24 08:27, 1, 1.00, 03/22/24 16:05, BRS, EPA 200.8 REV 5.4

Sample: HC02621-40
Name: 12-CDC-F-K-N
Matrix: Drinking Water - Regular Sample

Sampled: 03/13/24 06:16
Received: 03/14/24 16:20

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 03/22/24 08:27, 1, 1.00, 03/22/24 16:07, BRS, EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: HC02621-41
Name: 13-CDC-SPRAY-K-N
Matrix: Drinking Water - Regular Sample

Sampled: 03/13/24 06:17
Received: 03/14/24 16:20

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 03/22/24 08:27, 1, 1.00, 03/22/24 16:08, BRS, EPA 200.8 REV 5.4

Sample: HC02621-42
Name: 14-CDC-DW-L
Matrix: Drinking Water - Regular Sample

Sampled: 03/13/24 06:20
Received: 03/14/24 16:20

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 03/22/24 08:27, 1, 1.00, 03/22/24 16:09, BRS, EPA 200.8 REV 5.4

Sample: HC02621-43
Name: 15-CDC-DW-R
Matrix: Drinking Water - Regular Sample

Sampled: 03/13/24 06:22
Received: 03/14/24 16:20

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 03/22/24 08:27, 1, 1.00, 03/22/24 16:11, BRS, EPA 200.8 REV 5.4

Sample: HC02621-44
Name: 16-CDC-F-282-E-UP
Matrix: Drinking Water - Regular Sample

Sampled: 03/13/24 06:32
Received: 03/14/24 16:20

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 1.33, ug/L, 03/22/24 08:27, 1, 1.00, 03/22/24 16:12, BRS, EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: HC02621-45
Name: 17-CDC-F-282-E-LOW
Matrix: Drinking Water - Regular Sample

Sampled: 03/13/24 06:33
Received: 03/14/24 16:20

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 1.22, ug/L, 03/22/24 08:27, 1, 1.00, 03/22/24 16:19, BRS, EPA 200.8 REV 5.4

Sample: HC02621-46
Name: 18-CDC-F-282-W
Matrix: Drinking Water - Regular Sample

Sampled: 03/13/24 06:34
Received: 03/14/24 16:20

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 1.11, ug/L, 03/22/24 08:27, 1, 1.00, 03/22/24 16:21, BRS, EPA 200.8 REV 5.4

Sample: HC02621-47
Name: 19-CDC-F-288-E
Matrix: Drinking Water - Regular Sample

Sampled: 03/13/24 06:30
Received: 03/14/24 16:20

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 03/22/24 08:27, 1, 1.00, 03/22/24 16:22, BRS, EPA 200.8 REV 5.4

Sample: HC02621-48
Name: 20-CDC-F-288-W-UP
Matrix: Drinking Water - Regular Sample

Sampled: 03/13/24 06:27
Received: 03/14/24 16:20

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 03/22/24 08:27, 1, 1.00, 03/22/24 16:23, BRS, EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: HC02621-49

Name: 21-CDC-F-288-W-LOW

Matrix: Drinking Water - Regular Sample

Sampled: 03/13/24 06:28

Received: 03/14/24 16:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Lead	2.26	ug/L		03/22/24 08:27	1	1.00	03/22/24 16:25	BRS	EPA 200.8 REV 5.4



NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050



Certified by: Chenise Lambert-Sykes, Project Manager

Internal Transfer Chain of Custody

Environmental
Works Inc

Missouri State
University

State of Origin: MO
Cert. Needed: YES NO

Results Requested

Workorder: HA

Workorder Name: MSU: CDC GTLO
Date:

Report To: Subcontract To: Requested Analysis

Chenise Lambert-Sykes
Pace Analytical
944 Anglum Road
Hazelwood, MO 63042
Phone 800.333.3278

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2231 W. Altorfer Drive
Peoria, IL 61615
800.333.3278

Unpreserved
Containers

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	DW Lead (pb)	Turb Check	LAB USE ONLY
1	01-CDC-WF-ENT-L	Grab	3/13/2024 0601		DW	1	X	
2	02-CDC-WF-ENT-R	Grab	3/13/2024 0601		DW	1	X	
3	03-CDC-F-180-UP	Grab	3/13/2024 0603		DW	1	X	
4	04-CDC-F-180-Low	Grab	3/13/2024 0604		DW	1	X	
5	05-CDC-F-183-UP	Grab	3/13/2024 0606		DW	1	X	
6	06-CDC-F-183-Low	Grab	3/13/2024 0607		DW	1	X	
7	07-CDC-F-183-W	Grab	3/13/2024 0608		DW	1	X	
8	08-CDC-F-185-E	Grab	3/13/2024 0609		DW	1	X	
9	09-CDC-F-185-W	Grab	3/13/2024 0611		DW	1	X	
10	10-CDC-F-185-N	Grab	3/13/2024 0612		DW	1	X	
11	11-CDC-F-K-HW	Grab	3/13/2024 0614		DW	1	X	
12	12-CDC-F-K-N	Grab	3/13/2024 0616		DW	1	X	
13	13-CDC-SPRAY-K-N	Grab	3/13/2024 0617		DW	1	X	
14	14-CDC-DW-L	Grab	3/13/2024 0620		DW	1	X	
15	15-CDC-DW-R	Grab	3/13/2024 0622		DW	1	X	
16	16-CDC-F-282-E-UP	Grab	3/13/2024 0632		DW	1	X	
17	17-CDC-F-282-E-LOW	Grab	3/13/2024 0633		DW	1	X	
18	18-CDC-F-282-W	Grab	3/13/2024 0634		DW	1	X	
19	19-CDC-F-288-E	Grab	3/13/2024 0630		DW	1	X	
20	20-CDC-F-288-W-UP	Grab	3/13/2024 0627		DW	1	X	
21	21-CDC-F-288-W-LOW	Grab	3/13/2024 0628		DW	1	X	
Transfers	Released By	Date/Time	Received By	Date/Time	Comments			
1	Car Bell, EMI	3/13/24, 0843	Cheng	3/14/24 1120	*SAMPLES UNPRESERVED AT COLLECTION			
2		3/14/24		3/14/24 1120	Normal TAT, Log Client IDs			
3					Report to 1PPB, EDD			

Workorder Name: MSU: CDC GTLO Date:
 State of Origin: MO Cert. Needed: YES NO
 Results Requested:
 Requested Analysis:
 By:
 Unpreserved Containers:
 DW Lead (pb):
 Turb Check:
 LAB USE ONLY:
 Date/Time:
 Received By:
 Date/Time:
 Comments:
 *SAMPLES UNPRESERVED AT COLLECTION
 Normal TAT, Log Client IDs
 Report to 1PPB, EDD
 Received on Ice Y or N:
 Custody Seal Y or N:
 Sample Intact Y or N:
 Cooler Temperature on Receipt:
 ***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
 This chain of custody is considered complete as is since this information is available in the owner laboratory.